

ISO 9001:2000  
REGISTERED



# Power Supplies



## Our Mission

GlobTek is committed to strive for increasing market share by offering high quality products while continuing aggressive research and development of new products following technological trends and fulfilling our customer's demand. We pursue this objective by providing high quality products in a timely manner, offering superior support and service while maintaining meaningful employment and earning acceptable profit.

**Anna Kaplan**  
Chief Executive Officer



GlobTek-established in 1984, ISO 9001 registered, specializes in Design and Manufacturing of Power Supplies in all configurations between 2-500W. Our Power Supplies come in standard configurations such as Table Top (Laptop style), Wall Plug-In, as well as open frame (with or without a cage). Aside from our standard products GlobTek specializes in stock-modified & custom power supplies. Our R&D team works closely with our customers on designs which meet their unique requirements. Many standard models have been certified with UL, cUL/CSA, VDE, TUV, CE, & T-Mark approvals. In addition, most models participate in the CB-Scheme to accommodate further global certification if required. We have over 20 years experience working with regulatory authorities world-wide.

Besides our strengths in manufacturing and quality we maintain a 12,000 sq. ft. stocking facility in Northvale, NJ in order to accommodate our North American customers with Just In Time delivery, safety stock programs, as well as "off the shelf" distribution solutions committed to ship within 24 hours from placement of your order. Quality is the vital backbone that allows GlobTek to be one of the world's leading manufacturers of Power Supplies, Power Cords, and Special OEM/ODM assemblies & Products.

Quality at GlobTek takes the form of quality of the product and quality of the organization.

GlobTek's Pacific Rim Manufacturing facilities offer significant cost savings to all of its OEM/ODM customers. These facilities take advantage of GlobTek's strong R&D staffs in both North America and Asia while manufacturing at extremely low cost and high efficiency in Mainland China. GlobTek's Pacific Rim facilities with over 1,000 production related employees manufactures standard power supplies, cordsets, & contract manufacturing services for OEM/ODM manufacturing at extremely competitive prices. GlobTek's Pacific Rim operations house full Injection molding capabilities as well as a fully equipped tool shop, Wave soldering/AI equipment for highest efficiency, as well as a host of Quality Control equipment.

## Quality Statement

- To do things right the first time, by working as a company wide team in building quality into our products and services.
- To focus on the customer's needs, and then plan our actions accordingly to fulfill these needs.
- To continuously improve our products and services delivered to our customers.

**GlobTek's** main activities in North America focus on:

- Corporate management
- World-wide sales
- Engineering & Regulatory Agency Compliance Department
- R&D
- Quality Control
- Rapid Sampling & Fast Turn-around low volume production
- Worldwide logistics
- 24,000 Sq. Ft. facility accommodating Just In Time Delivery and Safety Stock programs.

## Just In Time Delivery





**GlobTek's** 24,000 Sq. Ft. facility located in Northvale, NJ, enables the company to support its customers with Just in Time delivery and facilitate minimal inventory at our customer's facilities.

Please inquire about available options pertaining to JIT or our other stocking programs.






Aside from JIT in the USA, **GlobTek** can arrange JIT delivery schemes in any part of the world including major manufacturing regions such as Mainland China, Taiwan, Malaysia, Singapore, Mainland Europe, Australia, Mexico, and elsewhere.

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## SWITCHMODE POWER SUPPLIES:

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## SWITCHMODE POWER SUPPLIES 0 - 20 WATT

### PRODUCT SELECTION CHART

Wattage	5	10	12	12	19	19	15	19	19	10-20	
Page Number	8	13	11	11	19/23	26/30	15	33	36	43	
Type	ITE	ITE	ITE	ITE	ITE	MED	ITE	ITE	MED	ITE	
Volts (Vdc) Note: 0.1V increments to max	GT-A81051	GT-5M10	GT-21088	GT-4101	GT-21089	GTM21089	GT-41052	GT-21096	GTM21096	GTD21088L	
<b>Output Voltage</b>	<b>Current (A) Maximum</b>										
3.3	1.00		1.50	x	2.60	2.60	x	2.60	2.60	2.50	
5.0	1.00		1.50	2.00	2.60	2.60	2.60	2.60	2.60	3.00	
6.0	0.83		1.33	x	2.50	2.50	2.50	2.50	2.50	3.00	
7.5	0.66		1.20	x	2.00	2.00	2.00	2.00	2.00	2.50	
9.0	0.55		1.00	x	1.70	1.70	1.70	1.70	1.70	2.50	
12.0	0.42		0.80	x	1.25	1.25	1.20	1.25	1.25	x	
13.5	0.37		0.74	x	1.15	1.15	1.15	1.15	1.15	x	
13.8	x		0.72	x	1.09	1.09	1.09	1.09	1.09	x	
15.0	x		0.63	x	1.20	1.20	1.00	1.20	1.20	x	
18.0	x		x	x	1.00	1.00	0.84	1.00	1.00	x	
24.0	x		x	0.50	0.75	0.75	0.63	0.75	0.75	x	
48.0	x		x	x	0.40	0.40	x	0.40	0.40	x	
+3.3/+5					x	x	x	x	x	x	
+5/-5	x		x	x	x	x	x	x	x	x	
+5/+12	x		x	x	x	x	x	x	x	x	
+5/+15	x		x	x	x	x	x	x	x	x	
+5/+24	x		x	x	x	x	x	x	x	x	
+15/+8	x		x	x	x	x	x	x	x	x	
+3.3/+5/+12	x		x	x	x	x	x	x	x	x	
+5/+12/-12	x		x	x	x	x	x	x	x	x	
+5/+12/-5	x		x	x	x	x	x	x	x	x	
+5/+24/-12	x		x	x	x	x	x	x	x	x	
+5/+15/-5	x		x	x	x	x	x	x	x	x	
+5/+15/-15											
+5/+15/-5/-15	x		x	x	x	x	x	x	x	x	
+5/+12/-5/-12	x		x	x	x	x	x	x	x	x	
+5/+12/+24/-12	x		x	x	x	x	x	x	x	x	
<b>Input Configuration</b>	<b>External Wall Plug-In Models</b>										
NEMA 1-15P/Japan	Yes	NA	Yes	Yes	Yes	Yes	Yes	-	-	-	
NEMA 5-15P/Japan	-	-	-	-	Yes	Yes	Yes	-	-	-	
Euro-CEE7/16	Yes	NA	Yes	Yes	Yes	Yes	Yes	-	-	-	
UK-BS	Yes	-	-	-	Yes	Yes	Yes	-	-	-	
Australian-AS/NZ	Yes	-	-	-	Yes	Yes	Yes	-	-	-	
Interchangeable	-	-	-	-	-	-	Yes	-	-	-	
DC Input	-	-	-	-	Yes	Yes	-	-	-	Yes	
<b>Input Configuration</b>	<b>External Desk Top Models</b>										
IEC320/C14 (3 Cond/ClassI)	-	-	-	-	Yes	Yes	-	-	-	-	
IEC 320/C8 (2 Cond/ClassII)	-	-	-	-	Yes	Yes	-	-	-	-	
IEC 320/C6 (3 Cond/ClassI)	-	-	-	-	Yes	Yes	-	-	-	-	
	<b>Internal Models (Open Frame, PCB, Enclosed)</b>										
Open Frame	-	-	-	-	-	-	-	Yes	Yes	-	
Enclosed	-	-	-	-	-	-	-	-	-	-	
PCB Mount	-	Yes	-	-	-	-	-	Yes	Yes	-	
Hot Swap	-	-	-	-	-	-	-	-	-	-	
	<b>Mechanical</b>										
Size mm(in)	L	54	85	57	60	86.5/74	86.5/74	74	84.6	84.6	57
DT / WPI	W	29.8	45	48	44	47/49	47/49	43.5	41.6	41.6	48
	H	40	22	26	25	32/40	32/40	34	28.9	28.9	26
Weight	grams	68	110	110	120	130	130	198	170	170	110
	oz.	2.4	4.0	4.0	4.3	4.7	4.7	7.1	6.1	6.1	4.0
	<b>Agencies (Contact GlobTek for latest status)</b>										
cUL 60950		Yes	N/A	Yes	Yes	Yes	-	Yes	Yes	-	N/A
cUL 1310		-	N/A	-	-	-	-	-	Yes	-	N/A
cUL 60601.1		-	N/A	-	-	-	Yes	-	-	Yes	N/A
EN 60950		Yes	N/A	Yes	Yes	Yes	-	-	Yes	-	N/A
EN 60601.1		-	N/A	-	-	-	Yes	-	-	Yes	N/A
PSE		Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	N/A
CCC		-	N/A	-	-	Yes	-	-	-	-	N/A
N		-	N/A	-	-	-	-	-	-	-	N/A
D		-	N/A	-	-	Yes	-	-	-	-	N/A
S		-	N/A	-	-	-	-	Yes	-	-	N/A
CB		Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A
CE		Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A
EMC		Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

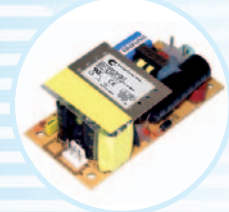


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PRODUCT SELECTION CHART

Wattage	20	22	24	25	30	60	50	50	60	60	
Page Number	39/41	45	46	49	51	60	54/58	56	66	62	
Type	ITE	ITE	ITE	ITE	ITE	ITE	ITE	MED	ITE	ITE	
Volts (Vdc) Note: 0.1V increments to max	GT-4202 /203D	GT-22038	GTD21148	GT-25	GT-21148	GTD21109	GT-21097/221097	GTM21097	GT-22011	GT-21126	
Output Voltage		Current (A) Maximum									
3.3	x	x	x	x	x	x	6.00	6.00	x	x	
5.0	x	x	3.0	5.00	4.00	x	6.00	6.00	x	x	
6.0	x	x	2.0	x	4.20	x	5.00	5.00	x	x	
7.5	x	x	2.0	x	3.45	x	5.00	5.00	x	x	
9.0	x	x	2.0	x	3.00	x	5.00	5.00	x	x	
12.0	x	x	2.0	2.10	2.50	x	4.17	4.17	5.00	5.00	
13.5	x	x	2.0	x	2.22	x	3.70	3.70	4.44	4.44	
13.8	x	x	2.0	x	2.10	x	3.60	3.60	4.30	4.30	
15.0	x	x	2.0	1.70	2.00	3.5	3.33	3.33	4.00	4.00	
18.0	x	x	1.3	x	1.70	3.0	2.80	2.80	3.33	3.30	
24.0	x	x	1.0	1.10	1.25	2.3	2.10	2.10	2.50	2.50	
48.0	x	x	0.5	x	x	1.0	1.10	1.10	x	x	
+3.3/+5	x	0.6/.5	x	x	x	x	x	x	x	x	
+5/-5	x	x	x	x	x	x	x	x	x	x	
+5/+12	2.5/.8	x	x	x	x	x	x	x	x	x	
+5/+15	x	x	x	x	x	x	x	x	x	x	
+5/+24	x	x	x	x	x	x	x	x	x	x	
+15/+8	x	x	x	x	x	x	x	x	x	x	
+3.3/+5/+12	x	x	x	x	x	x	x	x	x	x	
+5/+12/-12	2/1/.2	x	x	x	x	x	x	x	x	x	
+5/+12/-5	x	x	x	x	x	x	x	x	x	x	
+5/+24/-12	x	x	x	x	x	x	x	x	x	x	
+5/+15/-5	x	x	x	x	x	x	x	x	x	x	
+5/+15/-15	x	x	x	x	x	x	x	x	x	x	
+5/+15/-5/-15	x	x	x	x	x	x	x	x	x	x	
+5/+12/-5/-12	x	x	x	x	x	x	x	x	x	x	
+5/+12/+24/-12	x	x	x	x	x	x	x	x	x	x	
Input Configuration		External Wall Plug-In Models									
NEMA 1-15P/Japan	-	-	-	-	-	-	-	-	-	-	
NEMA 5-15P/Japan	-	-	-	-	-	-	-	-	-	-	
Euro-CEE7/16	-	-	-	-	-	-	-	-	-	-	
UK-BS	-	-	-	-	-	-	-	-	-	-	
Australian-AS/NZ	-	-	-	-	-	-	-	-	-	-	
Interchangeable	-	-	-	-	-	-	-	-	-	-	
DC Input	-	-	Yes	-	-	Yes	-	-	-	-	
Input Configuration		External Desk Top Models									
IEC320/C14 (3 Cond/ClassI)	Yes	-	-	-	-	-	Yes	Yes	-	Yes	
IEC 320/C8 (2 Cond/ClassII)	-	-	-	-	Yes	-	-	-	Yes	-	
IEC 320/C6 (3 Cond/ClassI)	-	-	-	-	-	-	-	-	-	-	
Internal Models (Open Frame, PCB, Enclosed)											
Open Frame	-	Yes	-	-	-	-	-	-	-	-	
Enclosed	-	-	-	Yes	-	-	-	-	-	-	
PCB Mount	-	-	-	-	-	-	-	-	-	-	
Hot Swap	-	-	-	-	-	-	-	-	-	-	
Mechanical											
Size mm(in)	L	110	119	103	99	103	103	119	119	99	119
DT / WPI	W	60	54	50	97	50	50	60	60	63	60
	H	34	30	32	35	32	32	32	32	30	32
Weight	grams	150	275	150	390	150	150	280	280	255	288
	oz.	5.4	9.9	5.4	14.0	5.4	5.4	10.1	10.1	9.2	10.4
Agencies (Contact GlobTek for latest status)											
cUL 60950		Yes	Yes	N/A	Yes	Yes	N/A	Yes	-	Yes	Yes
cUL1310		-	-	N/A	-	-	N/A	Yes	-	-	-
cUL 60601.1		-	-	N/A	-	-	N/A	-	Yes	-	-
EN 60950		-	Yes	N/A	Yes	Yes	N/A	Yes	-	Yes	Yes
EN 60601.1		-	-	N/A	-	-	N/A	-	Yes	-	-
PSE		-	-	N/A	-	Yes	N/A	Yes	Yes	-	-
CCC		-	-	N/A	-	Yes	N/A	Yes	-	-	-
N		-	-	N/A	-	Yes	N/A	-	-	-	-
D		-	-	N/A	-	Yes	N/A	-	-	-	-
S		-	-	N/A	-	Yes	N/A	-	-	-	-
CB		Yes	Yes	N/A	Yes	Yes	N/A	Yes	Yes	Yes	Yes
CE		Yes	Yes	N/A	Yes	Yes	N/A	Yes	Yes	Yes	Yes
EMC		Yes	Yes	N/A	Yes	Yes	N/A	Yes	Yes	Yes	Yes

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SWITCHMODE POWER SUPPLIES 60 - 102 WATT

PRODUCT SELECTION CHART

Wattage	60	65	65	72	80	80	100	100	102	
Page Number	64	68	71	74	76	79	82	84	86	
Type	ITE	ITE	MED	ITE	ITE	MED	ITE	MED	ITE	
Volts (Vdc) Note: 0.1V increments to max	GT-561	GT-2065/2066-65W	GTM2065/2066-65W	GT-21131	GT-2065/2066-80W	GTM2065/2066-80W	GT-9100	GTM9100	GT-100	
Output Voltage		Current (A) Maximum								
3.3	9.00	See Chart Page 68	See Chart Page 71	x	16.70	16.70	15.00	15.00	20.00	
5.0	x			x	11.00	11.00	20.00	20.00	20.00	
6.0	x			x	11.00	11.00	16.67	16.67	x	
7.5	x			x	9.33	9.33	13.33	13.33	13.60	
9.0	x			x	8.89	8.89	11.11	11.11	10.00	
12.0	x			6.00	6.67	6.67	8.33	8.34	8.50	
13.5	x			5.30	5.92	5.92	7.41	7.41	x	
13.8	x			5.20	5.80	5.80	7.25	7.25	x	
15.0	x			4.80	5.33	5.33	6.67	6.67	6.70	
18.0	x			4.00	4.44	4.44	5.56	5.56	5.60	
24.0	x			3.00	3.33	3.33	4.10	4.10	4.50	
48.0	x			x	1.67	1.67	2.08	2.08	2.00	
+3.3/+5	x			x	x	x	x	x	x	
+5/-5	7/1.75			x	x	x	x	x	x	
+5/+12	5/2.0			x	x	x	x	x	x	
+5/+15	5/1.6			x	x	x	x	x	x	
+5/+24	5/1.0			x	x	x	x	x	x	
+15/+8	2/1.7			x	x	x	x	x	x	
+3.3/+5/+12	x			x	x	x	x	x	x	
+5/+12/-12	5/1.5/.5			x	x	x	x	x	x	
+5/+12/-5	5/1.5/.8	x	x	x	x	x	x			
+5/+24/-12	5/1.75/.5	x	x	x	x	x	x			
+5/+15/-5	5/1.5/.5	x	x	x	x	x	x			
+5/+15/-15	5/1.5/.2	x	x	x	x	x	x			
+5/+15/-5/-15	x	x	x	x	x	x	5.x			
+5/+12/-5/-12	x	x	x	x	x	x	x			
+5/+12/+24/-12	x	x	x	x	x	x	x			
Input Configuration		External Wall Plug-In Models								
NEMA 1-15P/Japan	-	-	-	-	-	-	-	-	-	
NEMA 5-15P/Japan	-	-	-	-	-	-	-	-	-	
Euro-CEE7/16	-	-	-	-	-	-	-	-	-	
UK-BS	-	-	-	-	-	-	-	-	-	
Australian-AS/NZ	-	-	-	-	-	-	-	-	-	
Interchangeable	-	-	-	-	-	-	-	-	-	
DC Input	-	-	-	-	-	-	-	-	-	
Input Configuration		External Desk Top Models								
IEC320/C14 (3 Cond/ClassI)	Yes	-	-	Yes	-	-	-	-	-	
IEC 320/C8 (2 Cond/ClassII)	-	-	-	-	-	-	-	-	-	
IEC 320/C6 (3 Cond/ClassI)	-	-	-	-	-	-	-	-	-	
Internal Models (Open Frame, PCB, Enclosed)										
Open Frame	-	Yes	Yes	-	Yes	Yes	-	-	-	
Enclosed	-	Yes	Yes	-	Yes	Yes	-	-	Yes	
PCB Mount	-	Yes	Yes	-	Yes	Yes	-	-	-	
Hot Swap	-	-	-	-	-	-	-	-	-	
Mechanical										
Size mm(in)	L	164	115 (5)	115 (5)	141.5	115 (5)	115 (5)	209	209	199
DT / WPI	W	85	76 (3)	76 (3)	76	76 (3)	76 (3)	112	112	110
	H	53	27 (1.07)	27 (1.07)	43	27(1.07)	27(1.07)	56	56	50
Weight	grams	531	242	242	504	242	242	350	350	700
	oz.	19.1	8.7	8.7	18.1	8.7	8.7	12.6	12.6	25.2
Agencies (Contact GlobTek for latest status)										
cUL 60950	Ⓢ	Yes	Yes	-	Yes	Yes	-	Yes	-	Yes
cUL1310	Ⓢ	-	-	-	-	-	-	Yes	-	-
cUL 60601.1	Ⓢ	-	-	Yes	-	-	Yes	-	Yes	-
EN 60950	Ⓢ	Yes	Yes	-	-	-	-	Yes	-	Yes
EN 60601.1	Ⓢ	-	-	-	Yes	-	-	-	Yes	-
PSE	Ⓢ	-	-	-	-	-	-	Yes	Yes	-
CCC	Ⓢ	-	-	-	-	-	-	Yes	-	-
N	Ⓢ	-	-	-	-	-	-	-	-	-
D	Ⓢ	-	Yes	Yes	-	Yes	Yes	-	-	-
S	Ⓢ	-	-	-	-	-	-	-	-	-
CB	CB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CE	CE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMC	Ⓢ	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
REGISTERED

PRODUCT SELECTION CHART

Wattage	150	150	200	200	250	250	300	400	500	500	
Page Number	88	90	95	97	99	101	117	119	121	123	
Type	ITE	ITE	ITE	MED	ITE	MED	ITE	ITE	ITE	MED	
Volts (Vdc) Note: 0.1V increments to max	RT-3S150	GT(S,T,Q)-150	GT-9200	GTM9200	GT-9250	GTM9250	GTP-300	GT-3T400P	GT-9500	GTM9500	
<b>Output Voltage</b>	<b>Current (A) Maximum</b>										
3.3	0.00	30.00	30.00	30.00	30.00	30.00	x	x	60.00	60.00	
5.0	30.00	30.00	40.00	40.00	40.00	40.00	50.00	x	80.00	80.00	
6.0	x	x	33.33	33.33	26.60	26.60	x	x	53.30	53.33	
7.5	20.0	20.0	26.67	26.67	20.00	20.00	34.00	x	40.00	40.00	
9.0	16.70	16.70	22.22	22.22	27.80	27.80	x	x	55.60	55.60	
12.0	12.50	12.50	16.67	16.67	20.90	20.90	24.00	x	41.70	41.70	
13.5	11.00	11.00	14.81	14.81	18.50	18.50	21.00	x	37.00	37.00	
13.8	x	x	14.49	14.50	18.00	18.00	x	x	36.20	36.20	
15.0	10.00	10.00	13.33	13.33	16.70	16.70	19.00	x	33.30	33.30	
18.0	8.40	8.40	11.11	11.11	13.90	13.90	x	x	27.80	27.80	
24.0	6.30	6.30	8.33	8.33	10.20	10.40	12.50	x	20.80	20.80	
48.0	3.20	3.20	4.71	4.71	5.20	5.20	6.25	x	10.40	10.40	
+3.3/+5	x		x	x	x	x	x	x	x	x	
+5/-5	x		x	x	x	x	x	x	x	x	
+5/+12	x		x	x	x	x	x	x	x	x	
+5/+15	x		x	x	x	x	x	x	x	x	
+5/+24	x		x	x	x	x	x	x	x	x	
+15/+8	x		x	x	x	x	x	x	x	x	
+3.3/+5/+1	x		x	x	x	x	x	4/34/18	x	x	
+5/+12/-12	x		x	x	x	x	x	x	x	x	
+5/+12/-5	x		x	x	x	x	x	x	x	x	
+5/+24/-12	x		x	x	x	x	x	x	x	x	
+5/+15/-5	x		x	x	x	x	x	x	x	x	
+5/+15/-15	x		x	x	x	x	x	x	x	x	
+5/+15/-5/-15	x		x	x	x	x	x	x	x	x	
+5/+12/-5/-12	x		x	x	x	x	x	x	x	x	
+5/+12/+24/-12	x		x	x	x	x	x	x	x	x	
<b>Input Configuration</b>	<b>External Wall Plug-In Models</b>										
NEMA 1-15P/Japan	-	-	-	-	-	-	-	-	-	-	
NEMA 5-15P/Japan	-	-	-	-	-	-	-	-	-	-	
Euro-CEE7/16	-	-	-	-	-	-	-	-	-	-	
UK-BS	-	-	-	-	-	-	-	-	-	-	
Australian-AS/NZ	-	-	-	-	-	-	-	-	-	-	
Interchangeable	-	-	-	-	-	-	-	-	-	-	
DC Input	-	-	-	-	-	-	-	-	-	-	
<b>Input Configuration</b>	<b>External Desk Top Models</b>										
IEC320/C14 (3 Cond/ClassI)	-	-	-	-	-	-	-	-	-	-	
IEC 320/C8 (2 Cond/ClassII)	-	-	-	-	-	-	-	-	-	-	
IEC 320/C6 (3 Cond/ClassI)	-	-	-	-	-	-	-	-	-	-	
<b>Internal Models (Open Frame, PCB, Enclosed)</b>											
Open Frame	-	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Enclosed	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
PCB Mount	-	-	Yes	Yes	Yes	Yes	-	-	-	-	
Hot Swap	-	-	-	-	-	-	Yes	Yes	-	-	
<b>Mechanical</b>											
Size mm(in)	L	199	199	256.5	256.5	229	229	229	94.25	279	279
DT / WPI	W	110	110	127	127	112	112	112	116.84	127	127
	H	50	50	63.5	63.5	45	45	45	50.8	70	70
Weight	grams	700	700	400	400	410	410	410	410	550	550
	oz.	25.2	25.2	14.4	14.4	14.8	14.8	14.8	14.8	19.8	19.8
<b>Agencies (Contact GlobTek for latest status)</b>											
cUL 60950		Yes	Yes	Yes	-	Yes	-	Yes	Yes	Yes	-
cUL1310		-	-	-	-	-	-	-	-	-	-
cUL 60601.1		-	-	-	Yes	-	Yes	-	-	-	Yes
EN 60950		Yes	Yes	Yes	-	Yes	-	Yes	Yes	Yes	-
EN 60601.1		-	-	-	Yes	-	Yes	-	-	-	Yes
PSE		-	-	-	Yes	-	Yes	-	-	-	Yes
CCC		-	-	-	-	-	-	-	-	-	-
N		-	-	-	-	-	-	-	-	-	-
D		-	-	-	-	-	-	-	-	-	-
S		-	-	-	-	-	-	-	-	-	-
CB		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CE		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMC		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

See Chart Page 90



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000 REGISTERED

0-5 Watts, Wall Plug-In, N.A., European, U.K., Australian Input, Single Output Family, ITE Power Adapter, Class II

Part Number Ordering System (See Page 224)
Output Plug/Cord Options (See Page 189)



ELECTRICAL SPECIFICATIONS

INPUT VOLTAGE: U= 90-264 VAC; N= 90-130 VAC; E = 180-264VAC
INPUT CURRENT: < 0.2 A RMS AT 90 VAC INPUT
INPUT FREQUENCY: 47 - 63 HZ
OUTPUT CURRENT: NO MINIMUM LOAD REQUIRED
OUTPUT POWER (RATED): 5 WATTS MAX SWITCHING FREQUENCY
OUTPUT RIPPLE (PEAK TO PEAK): 3V-5V MODELS 2% TYPICAL
OUTPUT REGULATION (LINE/LOAD): ± 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR
LINE REGULATION: ± 2.0 % MAX AT FULL LOAD
TURN ON/ TURN OFF OVERSHOOT: 4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD
TURN-ON DELAY: 2000 mSEC MAX
HOLD-UP TIME: 5 m SEC MIN AT NOMINAL INPUT AND FULL LOAD
INRUSH CURRENT: 20 A MAX AT COLD START N.A.
SWITCHING FREQUENCY: 100 KHZ TYPICAL
OVER-VOLTAGE PROTECTION: VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE
OVER-CURRENT / SHORT CIRCUIT: HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO
OTHER PROTECTION: INPUT FUSING
SAFETY APPROVALS: UL60950, CUL TO 22.2# 950, TUV TO EN60950, PSE TO J60950
DIELECTRIC WITHSTAND VOLTAGE: 4242VDC (3000VAC) PRIMARY-SECONDARY
LEAKAGE CURRENT: ≤ 0.25 mA
LINE SURGE: EN 61000-4-5 LEVEL 4

EMI: COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED.

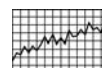
CE MARK: TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3 AND EN50082-1, INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

MTBF: GREATER THAN 50,000 HOURS AT 25°C
AMBIENT TEMPERATURE, OPERATING TEMPERATURE: 0° C TO 40° C
STORAGE TEMPERATURE: -40° C TO 80° C

HUMIDITY: 0% TO 90% RELATIVE HUMIDITY
MODEL NUMBER DESCRIPTION: MODEL GT-A81051-05(XX)(-Y.Y)W2(-,E, A, U)
WHERE: A81051-05: SERIES CODE
XX = DENOTES RATED VOLTAGE
(-Y.Y) = DENOTES VOLT AGE DIFFERENTIATOR
(U,N,E) = INPUT VOLTAGE RANGE
(U=90-264V, N= 90-130V, E= 180-264V)
NOTE: U & N = UL,CUL,CE MARKED ; U & E = CE, TUV MARKED (-,E,A,U) = BLADE CONFIGURATION; "-"- US BLADE, "E"-EUROPEAN BLADE, "A"-AUSTRALIAN BLADE, "U"-UK BLADES

CONSTANT CURRENT CURRENT LIMIT: OPTIONAL; FOR BATTERY CHARGER APPLICATIONS

- NOTES: 1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
2. OUTPUTS MAY VARY FROM 3VDC-13VDC IN 0.1V INCREMENTS
3. (-Y.Y) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM LISTED RATINGS. SUBTRACT Y.Y FROM RATED VOLTAGE.



SEE APPENDIX "A" FOR ELECTRICAL PERFORMANCE CURVES

OUTPUT VOLTAGE / CURRENT: NORTH AMERICAN BLADE CONFIGURATION

Table with 4 columns: MODEL NUMBER, OUTPUT VOLTAGE (VDC), OUTPUT CURRENT (mA), RATED OUTPUT POWER (W). Lists various model numbers and their specifications.

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED


**0-5 Watts, Wall Plug-In, N.A., European, U.K., Australian Input,  
Single Output Family, ITE Power Adapter, Class II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**ENCLOSURES**

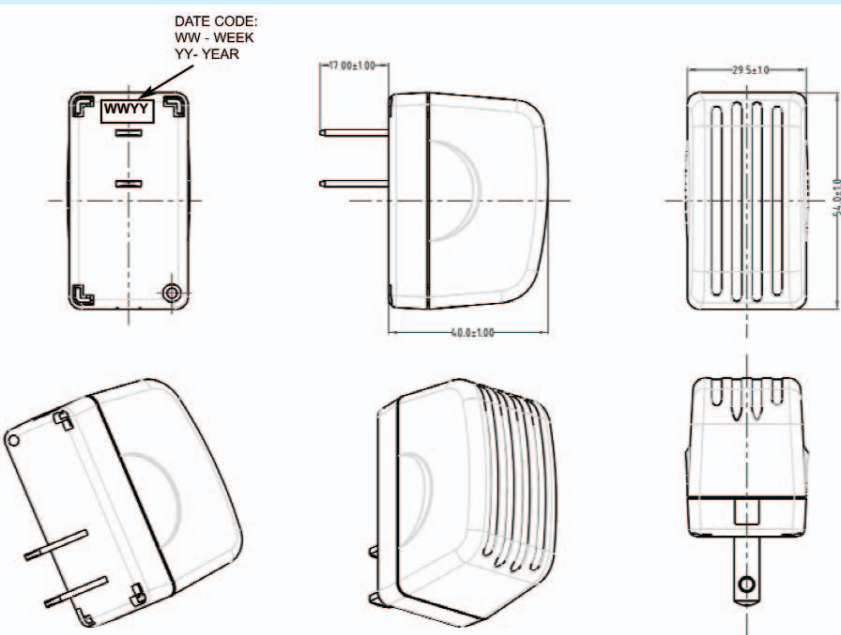
HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK, CUSTOMER SPECIFIED COLOR AVAILABLE UPON REQUEST.



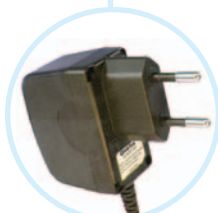
**NORTH AMERICA (W2)**

**SIZE:**  
54.0 x 29.5 x 40.0 ± 1 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
NEMA 1-15/JIS 8303 CLASS II  
WITH 2 BLADES



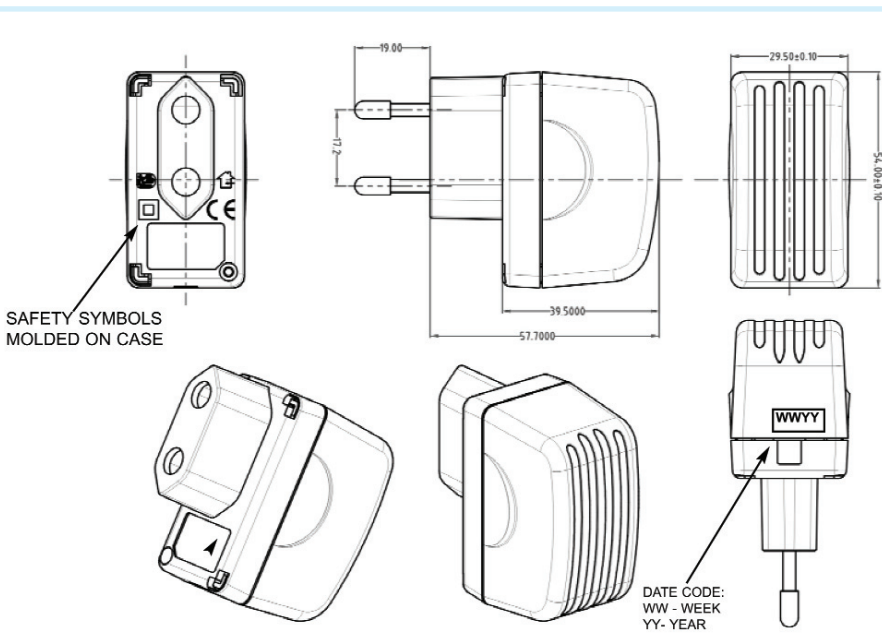
STANDARD MODEL



**EUROPEAN (W2E)**

**SIZE:**  
54.0 x 29.0 x 39.5 ± 1 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
EURO PLUG CEE7/16,  
CLASS II



STANDARD MODEL

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GT-A81051 SERIES-5W

### 0-5 Watts, Wall Plug-In, N.A., European, U.K., Australian Input, Single Output Family, ITE Power Adapter, Class II

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



#### ENCLOSURES

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK, CUSTOMER SPECIFIED COLOR AVAILABLE UPON REQUEST.

**UK (W2U)**

**SIZE:**  
54.0 x 29.0 x 39.5 + 1 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
BS 1363 / 3 PRONGS  
(GROUND PRONG  
FLOATING, USED FOR  
MECHANICAL RIGIDITY)

SAFETY SYMBOLS  
MOLDED ON CASE

DATE CODE:  
WW - WEEK  
YY - YEAR

**AUSTRALIAN (W2A)**

**SIZE:**  
54.0 x 29.4 x 48.0 + 1 mm

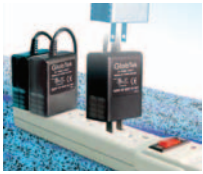
**INPUT CONNECTOR:**  
CONFIGURATION:  
AS/NZ 3112, 2 BLADES

DATE CODE:  
WW - WEEK  
YY - YEAR

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**0-12 Watts, Low-Profile Wall Plug-In, N.A., Europe, Universal Input, Single Output Family, ITE Class II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

**ELECTRICAL SPECIFICATIONS:**

- INPUT VOLTAGE:**  
90 VAC TO 264 VAC
- INPUT CURRENT:**  
≤ 0.5 A RMS AT 90 VAC INPUT
- INPUT FREQUENCY:**  
47 HZ - 63 HZ
- OUTPUT CURRENT:**  
NO MINIMUM LOAD REQUIRED
- OUTPUT POWER (RATED):**  
12 WATTS MAX
- OUTPUT RIPPLE (PEAK TO PEAK):**  
≤ 1% TYP
- OUTPUT REGULATION (LINE/LOAD):**  
+ 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR
- LINE REGULATION:**  
+ 0.5 % MAX AT FULL LOAD
- TURN ON/ TURN OFF OVERSHOOT:**  
4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD
- TURN-ON DELAY:**  
1 SEC MAX
- HOLD-UP TIME:**  
10 m SEC MIN AT NOMINAL INPUT AND FULL LOAD
- INRUSH CURRENT:**  
30 A MAX AT COLD START FOR N.A. (40A FOR EURO)
- EFFICIENCY:**  
75 % TYPICAL
- SWITCHING FREQUENCY:**  
100 KHZ TYPICAL, VARIES WITH LINE AND CORD
- OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE, CROWBAR METHOD
- OVER-CURRENT / SHORT CIRCUIT:**  
MOMENTARY SHORT CIRCUIT PROTECTED, OUTPUT WILL AUTORECOVER UPON REMOVAL OF SHORT.
- OTHER PROTECTION:**  
INPUT FUSING

**SAFETY APPROVALS:**

UL60950, CUL TO 22.2 # 950, TUV TO EN60950, PSE TO J60950, CE CLASS II, CB

**DIELECTRIC WITHSTAND VOLTAGE:**

4242VDC (3000VAC) PRIMARY-SECONDARY

**LEAKAGE CURRENT:**

< 1mA AT 264VAC INPUT

**LINE SURGE:**

EN 61000-4-5 LEVEL 4

**EMI:**

COMPLIES WITH EN55022, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED EMI

**CE MARK:**

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**

GREATER THAN 50,000 HOURS AT 25° C AMBIENT TEMPERATURE

**OPERATING TEMPERATURE:**

0° C TO 40° C

**STORAGE TEMPERATURE:**

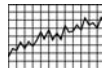
-10° C TO 80° C

**HUMIDITY:**

0% TO 90% RELATIVE HUMIDITY

**NOTES:**

1. -: ITE MODEL
2. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
3. OUTPUTS MAY VARY FROM 3.3V UP TO 24V IN 0.1V INCREMENTS.
4. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "B" FOR ELECTRICAL PERFORMANCE CURVES

**OUTPUT VOLTAGE / CURRENT:  
CLASS II MODELS, DOUBLE INSULATED**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21088-0503-W2, W2E	+ 3.0	0 - 1.5	0 - 4.5
GT-21088-0505-1.0-W2, W2E	+ 4.0	0 - 1.5	0 - 6.0
GT-21088-0605-X.X-W2, W2E	+ 5.0	0 - 1.5	0 - 7.5
GT-4101W-05-X.X-W2 (NEMA 1-15P/JIS 8303 BLADE ONLY)	+ 5.0	0 - 2.0 A	0 - 10.0
GT-21088-0806-X.X-W2, W2E	+ 6.0	0 - 1.33	0 - 8.0
GT-21088-0809-2.0-W2, W2E	+ 7.0	0 - 1.28	0 - 9.0
GT-21088-0809-1.0-W2, W2E	+ 8.0	0 - 1.13	0 - 9.0
GT-21088-0909-X.X-W2, W2E	+ 9.0	0 - 1.0	0 - 9.0
GT-21088-1012-X.X-W2, W2E	+12.0	0 - 0.8	0 - 10.0
GT-21088-1015-2.0-W2, W2E	+ 13.0	0 - 0.76	0 - 10.0
GT-21088-1015-1.2-W2, W2E	+ 13.8	0 - 0.72	0 - 10.0
GT-21088-1015-X.X-W2, W2E	+15.0	0 - 0.63	0 - 10.0
GT-4101W-20-X.X-W2 (NEMA 1-15P/JIS 8303 BLADE ONLY)	+20.0	0 - 0.6 A	0 - 12.0
GT-4101W-24-X.X-W2 (NEMA 1-15P/JIS 8303 BLADE ONLY)	+24.0	0 - 0.5 A	0 - 12.0

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
REGISTERED

## GT-21088 AND GT-4101W SERIES-12W

**0-12 Watts, Low-Profile Wall Plug-In, N.A., Europe,  
Universal Input, Single Output Family, ITE Class II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

 INDOOR USE ONLY



### ENCLOSURES

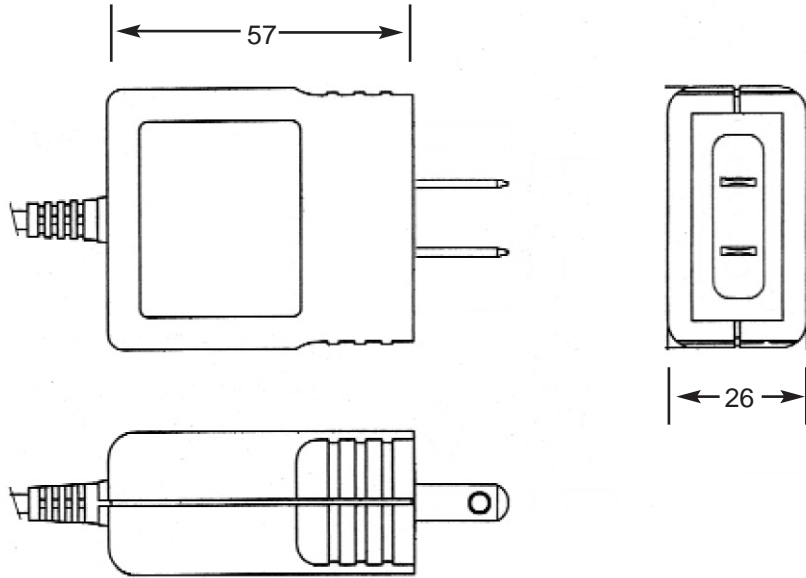
HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK, COLOR BLACK, CUSTOMER SPECIFIED COLOR AVAILABLE UPON REQUEST.



**NORTH AMERICA:**  
NEMA 1-15P/JIS

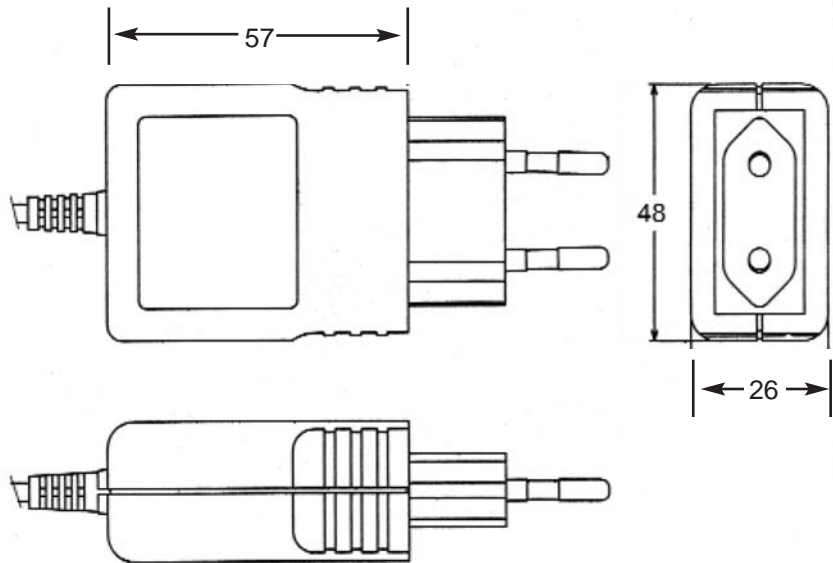
**GT-21088 SIZE:**  
57 x 48 x 26 ± 1mm

**GT-4101W SIZE:**  
60 x 44 x 25 ± 1mm



**EUROPE: - W2E**  
CEE 7/16

**SIZE:**  
57 x 48 x 26 ± 1mm



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



FCC CB

**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**

90-264VAC TYPICAL. (OR 110-340VDC)

**INPUT CURRENT:**

0.3A @ 115VAC./ 0.13A @ 230VAC

**INPUT FREQUENCY:**

47-63 HZ. (50/60HZ.NOM.) OR DC

**OUTPUT CURRENT:**

10 WATTS TYPICAL

**OUTPUT RIPPLE (PEAK TO PEAK):**

1.0% TYPICAL PEAK TO PEAK

**OUTPUT REGULATION (LINE/LOAD):**

VARIOUS WITH OUTPUT VOLTAGE.

SINGLE O/P  $\pm 1.0\%$  TYPICAL.

DUAL O/P  $\pm 2.0\%$  TYPICAL

**LINE REGULATION:**

VARIOUS WITH OUTPUT VOLTAGE

SINGLE O/P:  $\pm 0.1\%$  TYPICAL.

DUAL O/P:  $\pm 0.2\%$  TYPICAL

**OVP:**

BUILT-IN ON MAIN OUTPUT.

**ADJUSTABILITY:**

FROM -10% OF MAIN OUTPUT TILL OVP.

**HOLD-UP TIME:**

20MS @115VAC, 80MS @230VAC

**INRUSH CURRENT:**

32.5A PEAK @ 230VAC

**INPUT FUSE:**

USE EXTERNAL FUSE. 1.0A/250VAC FOR PRIMARY

FUSE IS SUGGESTED

**EFFICIENCY:**

67-79% TYPICAL (VARIOUS WITH OUTPUT VOLTAGE)

**SWITCHING FREQUENCY:**

75K HZ

**CIRCUIT TOPOLOGY:**

FIXED FREQUENCY FLYBACK CIRCUIT.

**TRANSIENT RESPONSE:**

TYPICAL PEAK DEVIATION 250MV,

**RECOVERY TIME:**

< 3MS FOR A 25% LOAD CHANGE.

**CASE:**

IMPACT RESISTANT THERMO-PLASTIC ENCLOSURE.

**WEIGHT:**

120G (4.23 OZ)

**POWER DENSITY:**

2.51 WATTS. / CUBIC INCH.

**OVER-VOLTAGE PROTECTION:**

FULLY PROTECTED AGAINST OUTPUT OVERLOAD AND SHORT CIRCUIT. OLP IS SET AT ABOUT 125-150% RATING OUTPUT WATTAGE. CONSULT THE FACTORY FOR ALTERNATIVE OLP SETTINGS

**SAFETY APPROVALS (PENDING):**

UL/CUL 60950 3-RD EDITION, TUV TO EN 60950, CE

**DIELECTRIC WITHSTAND VOLTAGE:**

3,000VAC-OUTPUT/INPUT, 1,500VAC-INPUT/GND, 500VAC-OUTPUT/GN

**EARTH LEAKAGE:**

LESS THAN 3.5MA @230VAC

**EMI:**

MEET CISPR PUB.22/ FCC CLASS B

**MTBF:**

100,000 HOURS. MIL STD 217, 25°C

**OPERATING TEMPERATURE:**

-10 TO +70°C RANGE

-10°C TO +50°C FULL LOAD WITHOUT DERATING

FROM +50°C, DERATING LINEARLY TO HALF LOAD @+70°C (REFER TO DERATING CHART.)

**STORAGE TEMPERATURE:**

-20°C TO +85°C

**TEMPERATURE COEFFICIENT:**

$\pm 0.02\%$  °C

**HUMIDITY:**

95% RH, NON-CONDENSING

**COOLING:**

CONVECTION COOLING FOR +50°C @ FULL LOAD.

AT LEAST 100LFM MOVING AIR IS RECOMMENDED

FOR FULL LOAD > +50°C IN A CONFINED AREA

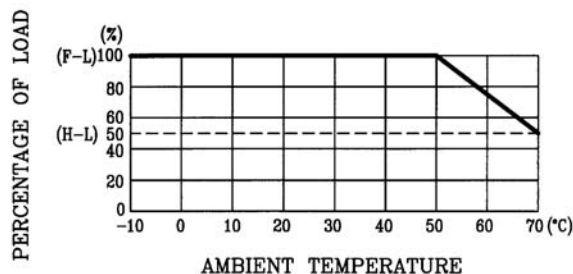
COMMERCIAL GRADE ONLY

**NOTES:**

1. ALL MEASUREMENTS ARE AT NOMINAL INPUT, FULL LOAD, AND +25°C UNLESS OTHERWISE SPECIFIED.
2. LOAD REGULATION MEASURED FROM FULL-LOAD (F-L) TO HALF-LOAD (H-L) AT NOMINAL INPUT AND OTHERS LOADED AT HALF LOAD. DUE TO REQUESTS IN MARKET AND ADVANCES IN TECHNOLOGY, SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



**DERATING CHART**



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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## GT-5M10 SERIES-10W

10 Watts, On-Board Universal Input AC-DC Encapsulated  
Modular Power Supplies Single & Dual Output



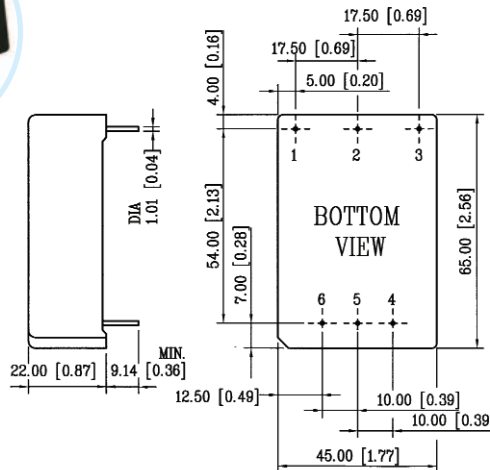
FC CB

OUTPUT VOLTAGE / CURRENT:  
NORTH AMERICAN BLADE CONFIGURATION

MODEL NUMBER	PART NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	RATED OUTPUT POWER (W)
GTPM1003.3	GT-5M10S-033243	+ 4.0	2430	0 - 10
GTPM1000	GT-5M10S-050200	+ 6.78	2000	0 - 10
GTPM1009	GT-5M10S-090112	+ 10.0	1120	0 - 10
GTPM1001	GT-5M10S-120090	+ 13.0	900	0 - 10
GTPM1002	GT-5M10S-150072	+ 13.8	720	0 - 10
GTPM1003	GT-5M10S-240045	+ 14.0	450	0 - 10
GTPM10048	GT-5M10S-480025	+ 16.0	250	0 - 10
GTPM100D3.3	GT-5M10D-033120	+ 18.0	1120	0 - 10
		- 20.0	1120	0 - 10
GTPM1004	GT-5M10D-050100	+ 36.0	1000	0 - 10
		- 5.0	1000	0 - 10
GTPM1005	GT-5M10D-120045	+ 12.0	450	0 - 10
		- 12.0	450	0 - 10
GTPM1006	GT-5M10D-150035	+ 15.0	350	0 - 10
		- 15.0	350	0 - 10

### MECHANICAL

HOUSING: HIGH IMPACT PLASTIC, 94-V0 POLYCARBONATE, NON-VENTED, COLOR BLACK.



### PIN ASSIGNMENT

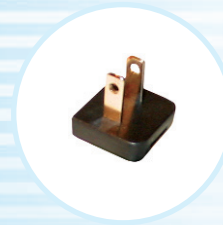
PIN NUMBER	SINGLE	DUAL
PIN #1	AC-GROUND	AC-GROUND
PIN #2	AC-NEUTRAL	AC-NEUTRAL
PIN #3	AC-LINE	AC-LINE
PIN #4	1 VO1	1 VO1
PIN #5	NO PIN	DC-COM
PIN #6	DC-COM	-VO2

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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### 15 Watts, Wall Plug-In, Switchmode Power Supply, N.A., European, U.K., SAA Universal Input, ITE, Class II

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

#### ELECTRICAL SPECIFICATIONS

##### INPUT VOLTAGE:

100-240 VAC

##### INPUT CURRENT:

&lt; 0.6 A RMS MAX

##### INPUT FREQUENCY:

47 - 63 HZ

##### OUTPUT CURRENT:

NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

##### OUTPUT POWER (RATED):

15 WATTS MAX

##### OUTPUT RIPPLE (PEAK TO PEAK):

100 mV

##### OUTPUT REGULATION (LINE/LOAD):

± 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

##### LINE REGULATION:

± 1 % MAX AT FULL LOAD

##### TURN ON/ TURN OFF OVERSHOOT:

4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD

##### TURN-ON DELAY:

3000 mSEC MAX

##### HOLD-UP TIME:

16 m SEC MIN AT NOMINAL INPUT AND FULL LOAD

##### INRUSH CURRENT:

30 A MAX AT COLD START 120 VAC, 60A MAX COLD START 230VAC

##### SWITCHING FREQUENCY:

66.5 KHz TYPICAL

##### OVER-VOLTAGE PROTECTION:

VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE

##### OVER-CURRENT / SHORT CIRCUIT:

HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 I<sub>o</sub>

##### OTHER PROTECTION:

INPUT FUSING

##### SAFETY APPROVALS:

UL60950, CUL TO 22.2# 950, SEMKO TO EN60950, CCC TO GB4943-2001, GB9254-1998, GB17625.1-2003, CE CLASS II, PSE TO J60950, CB REPORT

##### DIELECTRIC WITHSTAND VOLTAGE:

3000VAC PRIMARY-SECONDARY

##### LEAKAGE CURRENT:

≤ 0.25 mA

##### LINE SURGE:

EN 61000-4-5 LEVEL 4

#### EMI:

COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED.

#### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3 AND EN50082-1, INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

#### MTBF:

GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE

#### AMBIENT TEMPERATURE, OPERATING TEMPERATURE:

0° C TO 40° C

#### STORAGE TEMPERATURE:

-40° C TO 80° C

#### HUMIDITY:

0% TO 90% RELATIVE HUMIDITY

#### MODEL NUMBER DESCRIPTION:

MODEL GT-41052-WWVV-X.X

#### WHERE:

41052: SERIES CODE

WW = DENOTES RATED WATTAGE

(VV) = RATED VOLTAGE

(X.X) = DENOTES VOLTAGE DIFFERENTIATOR

#### PART NUMBER DESIGNATION:

SEE P/N SYSTEM FOR EXPLANATION:

XXX - DESIGNATION OUTPUT CORD + PLUG OPTION

#### NOTES:

1. EACH OUTPUT CURRENT MAY VARY WITHIN ITS DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
2. SINGLE OUTPUT MAY VARY FROM 5VDC-24VDC IN 0.1V INCREMENTS
3. (-Y.Y) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM LISTED RATINGS. SUBTRACT Y.Y FROM RATED VOLTAGE.

#### OUTPUT VOLTAGE / CURRENT:

##### NORTH AMERICAN BLADE CONFIGURATION

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-41052-1305	+ 5.0	0 - 2.6	15
GT-41052-1506-X.X	+ 6.0	0 - 2.5	15
GT-41052-1507-X.X	+ 7.0	0 - 2.14	15
GT-41052-1509-X.X	+ 9.0	0 - 1.7	15
GT-41052-1512-X.X	+ 12.0	0 - 1.25	15
GT-41052-1512-1.2	+ 13.8	0 - 1.1	15
GT-41052-1515-X.X	+ 15.0	0 - 1.0	15
GT-41052-1518-X.X	+ 18.0	0 - 0.84	15
GT-41052-1520-X.X	+ 20.0	0 - 0.75	15
GT-41052-1524-X.X	+ 24.0	0 - 0.63	15

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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## GT-41052 SERIES-15W

**15 Watts, Wall Plug-In, Switchmode Power Supply, N.A.,  
European, U.K., SAA Universal Input, ITE, Class II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

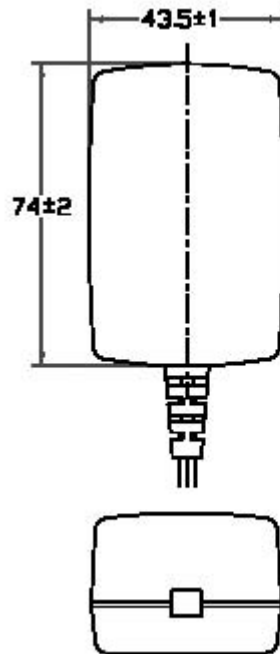


### ENCLOSURES

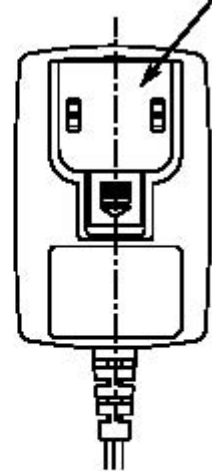
HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK, COLOR BLACK, CUSTOMER SPECIFIED  
COLOR AVAILABLE UPON REQUEST.



SIZE:  
74 x 43.5 x 34 mm



STANDARD OPTION SHIPS  
WITHOUT AC PINS INSTALLED



### INPUT CONNECTOR:

N.A. CONFIGURATION:  
1. CLASS II MODEL  
NEMA 1-15P JIS AC POWER  
RECEPTACLE WITH  
2 PRONGS  
2. AUSTRALIAN  
CONFIGURATION:  
AS/NZ 3112 2 PINS CLASS II  
3. UK CONFIGURATION:  
BS 1363 2 PINS CLASS II  
4. EUROPEAN  
CONFIGURATION: EUROPLUG  
CEE 7/16 2 PINS, CLASS II



STANDARD OPTION,  
PINS TO BE ORDERED SEPARATELY

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**0-15 Watts, Switchmode, Single Output, 5V@ 3A (2.2"x3.9")  
Open Frame, Universal Input, ITE Class I**

Part Number Ordering System (See Page 224)



**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
< 0.5 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT VOLTAGE:**  
+ 5VDC @ 0-3.0A

**OUTPUT CURRENT:**  
NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
15 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
≤ 1% TYP

**OUTPUT REGULATION (LINE/LOAD):**  
± 2 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

**LINE REGULATION:**  
± 0.5 % MAX AT FULL LOAD

**ADJUSTABILITY:**  
+10, -5% OUTPUT VOLTAGE

**REMOTE SENSING (OPTION):**  
PROVIDES REGULATION WITHIN ± 1% OF NOMINAL VOLTAGE OF MAIN OUTPUT AT LOAD LEVEL. FOR 3.3V SINGLE OUTPUT, REMOTE IS REQUIRED.

**TURN ON/ TURN OFF OVERSHOOT:**  
4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
16 m SEC MIN AT NOMINAL INPUT AND FULL LOAD

**INRUSH CURRENT:**  
20 A MAX AT COLD START FOR N.A. (40A FOR EURO)

**EFFICIENCY:**  
75 % TYPICAL

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

**OTHER PROTECTION:**  
INPUT FUSING

**SAFETY APPROVALS:**  
UR TO UL 60950, C-UR TO 22.2 # 950, TUV TO EN 60950, CE CLASS I & II

**DIELECTRIC WITHSTAND VOLTAGE:**  
4242VDC (3000 VAC) PRIMARY-SECONDARY;1500 VAC  
PRIMARY- GROUND

**LEAKAGE CURRENT:**  
≤ 0.25 mA

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

**EMI:**  
COMPLIES WITH EN55022, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

**CE MARK:**  
TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4.

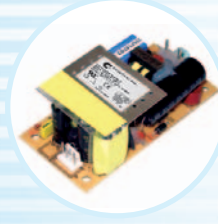
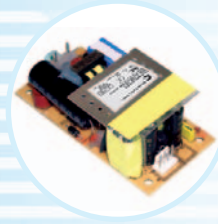
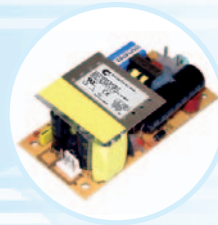
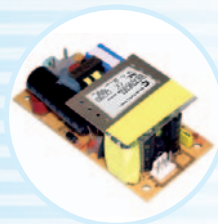
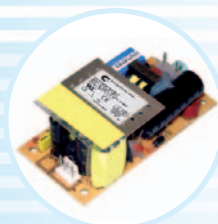
**MTBF:**  
GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE

**OPERATING TEMPERATURE:**  
0° C TO 40° C

**STORAGE TEMPERATURE:**  
-40° C TO 80° C

**HUMIDITY:**  
0% TO 90% RELATIVE HUMIDITY

**NOTES:**



**OUTPUT VOLTAGE / CURRENT:**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	RATED OUTPUT POWER (W)
GT-21098-1505	+ 5.0	0 - 3.0	0 - 15

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

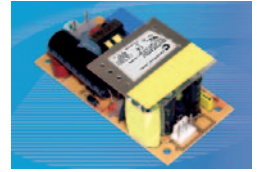


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## GT-21098 SERIES 15W

**0-15 Watts, Switchmode, Single Output, 5V@ 3A (2.2"x3.9")  
Open Frame, Universal Input, ITE Class I**

Part Number Ordering System (See Page 224)



 FOR INDOOR USE ONLY



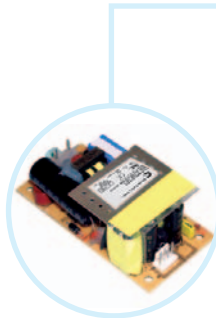
### MECHANICAL CONFIGURATION:

#### INPUT CONNECTOR:

SQUARE PIN LOCKING HEADERS, WITH .312(7.92) BETWEEN CONDUCTORS, .045 (1.14) SQUARE PINS, TIN PLATED UL 94V-0 RATED NYLON HOUSING, MOLEX: 09-65-2038 ( 3 CIRCUITS, WITH 1 PIN REMOVED FOR CLASS II). HEADER MATES WITH MOLEX NO. 2139 CONNECTOR OR EQUIVALENTS.

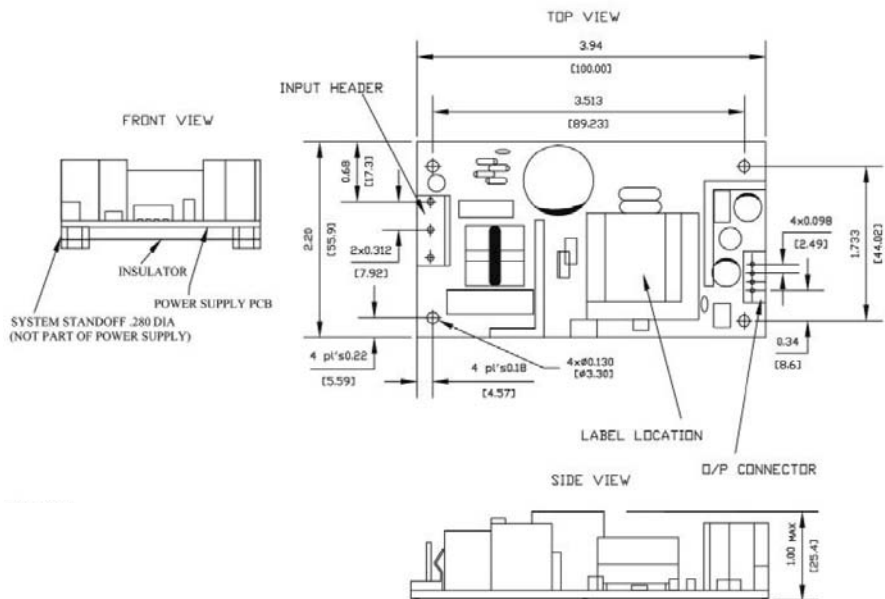
#### OUTPUT CONNECTOR:

4 PIN STRAIGHT SQUARE PIN FRICTION LOCK HEADER, MOLEX: 22-28-0040 UL 94V-0 RATED NYLON HOUSING; .100 (2.54) BETWEEN CONDUCTORS, .025(0.64) SQUARE PINS, TIN PLATED, HEADER MATCH WITH MOLEX # 2695 CONNECTORS OR EQUIVALENT.



#### OPTION:

10 MIL 94V-0 FIBER GLASS (2.17 X 3.90) INCH, W/4HOLES MATCHING MOUNTING HOLE POSITIONS, TERMINAL BOARD WITH RTV UNDERNEATH THE POWER PC BOARD IN 6 PLACES.



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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REGISTERED



**0-19 Watts, Wall Plug-In, Single Output Family, ITE Class I & II, N.A., Japan, Europe, U.K., Australia, Universal Input**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 26)



**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
< 1.0 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
18 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
≤ 1% TYP

**OUTPUT REGULATION (LINE/LOAD):**  
± 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

**LINE REGULATION:**  
± 0.5 % MAX AT FULL LOAD

**TURN ON/ TURN OFF OVERTHOOT:**  
5% MAX 500µs MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

**INRUSH CURRENT:**  
20 A MAX AT COLD START FOR N.A. (40A FOR EURO)

**EFFICIENCY:**  
75 % TYPICAL

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL, VARIES WITH LINE AND LOAD

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

**OTHER PROTECTION:**  
INPUT FUSING

**SAFETY APPROVALS:**  
**ITE MODELS:**  
UL 60950, CUL TO 22.2 NO. 60950, TUV DEMKO PCBC EN60950, AND cTUVus TO UL 60950 FOR CLASS II FE AND CLASS II; CE FOR EMC, PSE TO J60950, C-TICK

**DIELECTRIC WITHSTAND VOLTAGE:**  
4242VDC (3000VAC) PRIMARY-SECONDARY,  
2121VDC (1500VAC) PRIMARY-GROUND

**LEAKAGE CURRENT:**  
< 300 µA AT 264VAC INPUT VOLTAGE

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

**EMI:**  
COMPLIES WITH EN55022 AND EN55011, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

**CE MARK:**  
EN55011, Group 1, Class B, EN5022 Class B, EN55011, Group 1, Class B; EN55024 / EN60601-1-2 / IEC 61000-4-3:2002; EN55024 / EN60601-1-2 / IEC 61000-4-6:2001; EN55024 / EN60601-1-2 / IEC 61000-4-8:2001; EN55024 / EN60601-1-2 / IEC 61000-4-11:2001; EN55024 / EN60601-1-2 / IEC 61000-4-4:2001; EN55024 / EN60601-1-2 / IEC 61000-4-2:2001; EN55024 / EN60601-1-2 / IEC 61000-4-5:2001; EN55024 / EN 61000-3-3 A1: 2001 / EN 61000-3-3 A1: 2001; EN55024 / EN 61000-3-2:2001 / EN 61000-3-2:2001. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**  
GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE,

**OPERATING TEMPERATURE:**  
0° C TO 40° C

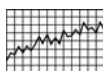
**STORAGE TEMPERATURE:**  
-40° C TO 80° C

**HUMIDITY:**  
0% TO 90% RELATIVE HUMIDITY

**MODEL NUMBER CODE:**  
GT-2: INTERNAL CODE;  
- : ITE MODEL  
1089: FAMILY DESIGNATION;  
1003 TO 1948: POWER/INPUT VOLTAGE;  
T: DESKTOP;  
W: WALL PLUG IN;  
3: CLASS I, PROTECTIVE GROUND; (NA, U.K. ONLY)  
2: CLASS II, DOUBLE INSULATED; (NA, EURO, AUSTRALIA)  
-E,U,A: PLUG CONFIGURATION: N.A.; EURO; U.K.; AUSTRALIA

**NOTES:**

- EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
- OUTPUTS ARE AVAILABLE FROM 3.3V-48V IN 0.1V INCREMENTS (48V FOR C-TUV-US ONLY)
- (X,X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "C" FOR ELECTRICAL PERFORMANCE CURVES

**OUTPUT VOLTAGE / CURRENT:  
CLASS I MODELS, PROTECTIVE GROUND**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21089-1003-W3(W3U)	+3.3	0 - 2.6	0-9
GT-21089-1305-1.0-W3(W3U)	+4.0	0 - 2.6	0-10
GT-21089-1305-X.X-W3(W3U)	+5.0	0 - 2.6	0-13
GT-21089-1506-X.X-W3(W3U)	+6.0	0 - 2.5	0-15
GT-21089-1509-2.0-W3(W3U)	+7.0	0 - 2.0	0-15
GT-21089-1509-1.0-W3(W3U)	+8.0	0 - 1.8	0-15
GT-21089-1509-X.X-W3(W3U)	+9.0	0 - 1.7	0-15
GT-21089-1512-2.0-W3(W3U)	+10.0	0 - 1.5	0-15
GT-21089-1512-1.0-W3(W3U)	+11.0	0 - 1.3	0-15





ISO 9001:2000  
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## GT-21089 SERIES-19W

### 0-19 Watts, Wall Plug-In, Single Output Family, ITE Class I & II, N.A., Japan, Europe, U.K., Australia, Universal Input

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Models (See Page 26)



INDOOR USE ONLY



#### OUTPUT VOLTAGE / CURRENT: CLASS I MODELS, PROTECTIVE GROUND

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21089-1512-X.X-W3(W3U)	+12.0	0 - 1.25	0-15
GT-21089-1815-2.0-W3(W3U)	+13.0	0 - 1.15	0-15
GT-21089-1815-1.2-W3(W3U)	+13.8	0 - 1.09	0-15
GT-21089-1815-1.0-W3(W3U)	+14.0	0 - 1.07	0-15
GT-21089-1815-X.X-W3(W3U)	+15.0	0 - 1.2	0-18
GT-21089-1818-2.0-W3(W3U)	+16.0	0 - 1.2	0-18
GT-21089-1818-1.0-W3(W3U)	+17.0	0 - 1.0	0-18
GT-21089-1818-X.X-W3(W3U)	+18.0	0 - 1.0	0-18
GT-21089-1824-5.0-W3(W3U)	+19.0	0 - 0.95	0-18
GT-21089-1824-4.0-W3(W3U)	+20.0	0 - 0.90	0-18
GT-21089-1824-X.X-W3(W3U)	+24.0	0 - .75	0-18
GT-21089-1948-20.4-W3(W3U) (TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GT-21089-1948-18.0-W3(W3U) (TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GT-21089-1948-12.0-W3(W3U) (TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GT-21089-1948-X.X-W3(W3U) (TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19

#### OUTPUT VOLTAGE / CURRENT: CLASS II MODELS, DOUBLE INSULATED

GT-21089-1003-T2(W2E, W2A)	+3.3	0 - 2.6	0-9
GT-21089-1505-1.0-(W2E, W2A)	+4.0	0 - 2.5	0-9
GT-21089-1505-X.X-(W2E, W2A)	+5.0	0 - 2.6	0-13
GT-21089-1506-X.X-(W2E, W2A)	+6.0	0 - 2.5	0-15
GT-21089-1509-2.0-(W2E, W2A)	+7.0	0 - 2.0	0-15
GT-21089-1509-1.0-(W2E, W2A)	+8.0	0 - 1.8	0-15
GT-21089-1509-X.X-(W2E, W2A)	+9.0	0 - 1.7	0-15
GT-21089-1512-2.0-(W2E, W2A)	+10.0	0 - 1.5	0-15
GT-21089-1512-1.0-(W2E, W2A)	+11.0	0 - 1.3	0-15
GT-21089-1512-X.X-(W2E, W2A)	+12.0	0 - 1.25	0-15
GT-21089-1815-2.0-(W2E, W2A)	+13.0	0 - 1.15	0-15
GT-21089-1815-1.2-(W2E, W2A)	+13.8	0 - 1.09	0-15
GT-21089-1815-1.0-(W2E, W2A)	+14.0	0 - 1.07	0-15
GT-21089-1815-X.X-(W2E, W2A)	+15.0	0 - 1.2	0-18
GT-21089-1818-2.0-(W2E, W2A)	+16.0	0 - 1.2	0-18
GT-21089-1818-1.0-(W2E, W2A)	+17.0	0 - 1.0	0-18
GT-21089-1818-X.X-(W2E, W2A)	+18.0	0 - 1.0	0-18
GT-21089-1824-5.0-(W2E, W2A)	+19.0	0 - 0.95	0-18
GT-21089-1824-4.0-(W2E, W2A)	+20.0	0 - 0.90	0-18
GT-21089-1824-X.X-(W2E, W2A)	+24.0	0 - .75	0-18
GT-21089-1948-20.4-(W2E, W2A) (TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GT-21089-1948-18.0-(W2E, W2A) (TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GT-21089-1948-12.0-(W2E, W2A) (TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GT-21089-1948-X.X-(W2E, W2A) (TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19





ISO 9001:2000  
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**0-19 Watts, Wall Plug-In, Single Output Family, ITE Class I & II,  
N.A., Japan, Europe, U.K., Australia, Universal Input**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Models (See Page 26)



INDOOR USE ONLY

**ENCLOSURES**

**NORTH AMERICA/JAPAN:  
W3**

**SIZE:**  
74 x 49 x 40.5 ± 0.5 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
NEMA 5-15 / JIS JIS 8303  
CLASS I WITH  
2 BLADES & GROUND PIN

**UNITED KINGDOM: W3U**

**SIZE:**  
74 x 49 x 40.5 ± 0.5 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
BS 1363 / 3 PRONGS  
CLASS I

**NORTH AMERICA/  
JAPAN: W2**

**SIZE:**  
74 x 49 x 40.5 ± 0.5 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
NEMA 1-15 / JIS 8303  
CLASS II  
WITH 2 BLADES

**EUROPE: W2E**

**SIZE:**  
74 x 49 x 40.5 ± 0.5 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
EURO PLUG  
CEE7/16, CLASS II

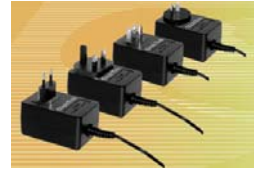


SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.




ISO 9001:2000  
REGISTERED

**0-19 Watts, Wall Plug-In, Single Output Family, ITE Class I & II,  
N.A., Japan, Europe, U.K., Australia, Universal Input**



Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Models (See Page 26)

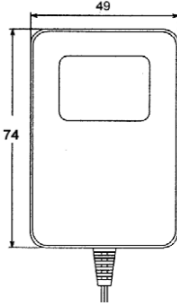
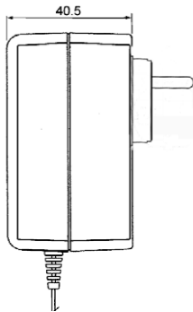

INDOOR USE ONLY

**AUSTRALIA: W2A**

**SIZE:**  
74 x 49 x 40.5  
± 0.5 mm

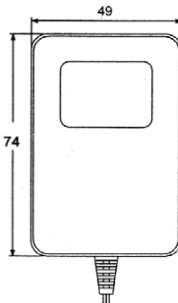
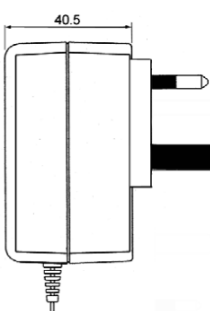
**INPUT CONNECTOR:**  
CONFIGURATION:  
AS/NZ 3112  
SAA PLUG,  
2 BLADES  
CLASS II

**UNITED KINGDOM: W2U**

**SIZE:**  
74 x 49 x 40.5 ± 0.5 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
BS 1363 / 3 PRONGS  
(GROUND PRONG  
FLOATING, USED FOR  
MECHANICAL RIGIDITY)  
CLASS II

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
REGISTERED

**0-19 Watts, DeskTop, Universal Input,  
Single Output Family, ITE Class I & II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 26)



**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
< 0.5A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
19 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
1% OF OUTPUT VOLTAGE , PEAK TO PEAK, TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**  
± 5% MEASURED AT THE OUTPUT CONNECTOR

**LINE REGULATION:**  
±1% TYPICAL MEASURED AT FULL LOAD

**TURN ON / TURN OFF OVERSHOOT:**  
5% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SECOND, TYPICAL

**HOLD-UP TIME:**  
10mS TYPICAL AT NOMINAL INPUT VOLTAGE AND FULL LOAD

**INRUSH CURRENT:**  
30A TYPICAL AT 115Vac INPUT AND 40A TYPICAL AT 230 VAC INPUT

**EFFICIENCY:**  
75% TYPICAL AT NOMINAL INPUT AND FULL LOAD

**SWITCHING FREQUENCY:**  
100KHZ TYPICAL, VARIES WITH LINE AND LOAD

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED TO LESS THAN 130%, CROWBAR METHOD

**OVER-CURRENT / SHORT CIRCUIT:**  
CONSTANT CURRENT METHOD / MOMENTARY SHORT CIRCUIT PROTECTED, OUTPUT WILL AUTORECOVER UPON REMOVAL OF SHORT.

**OTHER PROTECTION:**  
INPUT FUSING; LINE FUSING

**SAFETY APPROVALS:**  
**ITE MODELS:**  
UL 60950, CUL TO 22.2NO.60950, TUV TO EN60950 AND cTUVus TO UL 60950 FOR CLASS II FE AND AND CLASS II ; CE FOR EMC, KTL EK MARK TO 60950 (FOR GT-21089-0909T3 ~ GT-21089-1305-T3), CHINESE CCC MARK TO GB4943-2001, GB9254-1998, GB17625.1-2003 (GT-21089-T3 FROM 5-18V OUTPUT), PSE TO J60950, C-TICK, POLAND PCBC TO EN60950, DEMKO TO EN60950, ARGENTINA S-MARK, CB REPORT.

**DIELECTRIC WITHSTAND VOLTAGE:**  
4242VDC (3000VAC) FROM PRIMARY TO SECONDARY,  
2121VDC (1500VAC) PRIMARY TO GROUND

**EARTH LEAKAGE CURRENT:**  
< 300uA at 264Vac INPUT VOLTAGE

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

**EMI:**  
COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED EMI

**CE MARK:**  
EN55011, Group 1, Class B, EN5022 Class B, EN55011, Group 1, Class B; EN55024 / EN60601-1-2 / IEC 61000-4-3:2002; EN55024 / EN60601-1-2 / IEC 61000-4-6:2001 ; EN55024 / EN60601-1-2 / IEC 61000-4-8:2001; EN55024 / EN60601-1-2 / IEC 61000-4-11:2001; EN55024 / EN60601-1-2 / IEC 61000-4-4:2001; EN55024 / EN60601-1-2 / IEC 61000-4-2:2001; EN55024 / EN60601-1-2 / IEC 61000-4-5:2001; EN55024 / EN 61000-3-3 A1: 2001 / EN 61000-3-3 A1: 2001; EN55024 / EN 61000-3-2:2001 / EN 61000-3-2:2001. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**  
GREATER THAN 50,000 HOURS AT 25C AMBIENT TEMPERATURE  
NOMINAL LINE AND FULL LOAD PER MIL-217 STANDARD

**OPERATING TEMPERATURE:**  
0°C TO 40°C AMBIENT TEMPERATURE

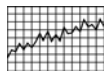
**STORAGE TEMPERATURE:**  
-10° C TO 80° C

**HUMIDITY:**  
0% TO 90% RELATIVE HUMIDITY

**MODEL NUMBER CODE:**  
GT-2: INTERNAL CODE;  
1089: FAMILY DESIGNATION;  
1003 TO 1948: POWER/INPUT VOLTAGE;  
T: DESKTOP;  
3: CLASS I, PROTECTIVE GROUND;  
2: CLASS II, DOUBLE INSULATED;

**NOTES:**

1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
2. OUTPUTS ARE AVAILABLE FROM 3.3V-48V IN 0.1V INCREMENTS
3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "C" FOR ELECTRICAL PERFORMANCE CURVES

**OUTPUT VOLTAGE / CURRENT:  
CLASS I MODELS, PROTECTIVE GROUND**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21089-1003-T3	+3.3	0 - 2.6	0-9
GT-21089-1305-1.0-T3	+4.0	0 - 2.6	0-10
GT-21089-1305-X.X-T3	+5.0	0 - 2.6	0-13
GT-21089-1506-X.X-T3	+6.0	0 - 2.5	0-15
GT-21089-1509-2.0-T3	+7.0	0 - 2.0	0-15
GT-21089-1509-1.0-T3	+8.0	0 - 1.8	0-15
GT-21089-1509-X.X-T3	+9.0	0 - 1.7	0-15
GT-21089-1512-2.0-T3	+10.0	0 - 1.5	0-15
GT-21089-1512-1.0-T3	+11.0	0 - 1.3	0-15



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
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## GT-21089 SERIES-19W

### 0-19 Watts, Desk Top, Universal Input, Single Output Family, ITE, Class I & II

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Models (See Page 26)



INDOOR USE ONLY



#### OUTPUT VOLTAGE / CURRENT: CLASS I MODELS, FUNCTIONAL GROUND

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21089-1512-X.X-T3	+12.0	0 - 1.25	0-15
GT-21089-1815-2.0-T3	+13.0	0 - 1.15	0-15
GT-21089-1815-1.2-T3	+13.8	0 - 1.09	0-15
GT-21089-1815-1.0-T3	+14.0	0 - 1.07	0-15
GT-21089-1815-X.X-T3	+15.0	0 - 1.2	0-18
GT-21089-1818-2.0-T3	+16.0	0 - 1.2	0-18
GT-21089-1818-1.0-T3	+17.0	0 - 1.0	0-18
GT-21089-1818-X.X-T3	+18.0	0 - 1.0	0-18
GT-21089-1824-5.0-T3	+19.0	0 - 0.95	0-18
GT-21089-1824-4.0-T3	+20.0	0 - 0.90	0-18
GT-21089-1824-X.X-T3	+24.0	0 - .75	0-18
GT-21089-1948-20.4-T3 (TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GT-21089-1948-18.0-T3 (TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GT-21089-1948-12.0-T3 (TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GT-21089-1948-X.X-T3 (TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19

#### OUTPUT VOLTAGE / CURRENT: CLASS II MODELS, DOUBLE INSULATED

GT-21089-1003-T2	+3.3	0 - 2.6	0-9
GT-21089-1505-1.0-T2	+4.0	0 - 2.5	0-9
GT-21089-1505-X.X-T2	+5.0	0 - 2.6	0-13
GT-21089-1506-X.X-T2	+6.0	0 - 2.5	0-15
GT-21089-1509-2.0-T2	+7.0	0 - 2.0	0-15
GT-21089-1509-1.0-T2	+8.0	0 - 1.8	0-15
GT-21089-1509-X.X-T2	+9.0	0 - 1.7	0-15
GT-21089-1512-2.0-T2	+10.0	0 - 1.5	0-15
GT-21089-1512-1.0-T2	+11.0	0 - 1.3	0-15
GT-21089-1512-X.X-T2	+12.0	0 - 1.25	0-15
GT-21089-1815-2.0-T2	+13.0	0 - 1.15	0-15
GT-21089-1815-1.2-T2	+13.8	0 - 1.09	0-15
GT-21089-1815-1.0-T2	+14.0	0 - 1.07	0-15
GT-21089-1815-X.X-T2	+15.0	0 - 1.2	0-18
GT-21089-1818-2.0-T2	+16.0	0 - 1.2	0-18
GT-21089-1818-1.0-T2	+17.0	0 - 1.0	0-18
GT-21089-1818-X.X-T2	+18.0	0 - 1.0	0-18
GT-21089-1824-5.0-T2	+19.0	0 - 0.95	0-18
GT-21089-1824-4.0-T2	+20.0	0 - 0.90	0-18
GT-21089-1948-18.0-T2	+24.0	0 - .75	0-18
GT-21089-1948-20.4-T2 (TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GT-21089-1948-18.0-T2 (TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GT-21089-1948-12.0-T2 (TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GT-21089-1948-X.X-T2 (TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**0-19 Watts, Desk Top, Universal Input,  
Single Output Family, ITE, Class I & II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 26)



**ENCLOSURES**

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK, COLOR BLACK, CUSTOMER SPECIFIED COLOR AVAILABLE UPON REQUEST.



**DESKTOP CLASS I FE: T3**

**SIZE:**

86.5 x 47 x 32 + 0.5 mm

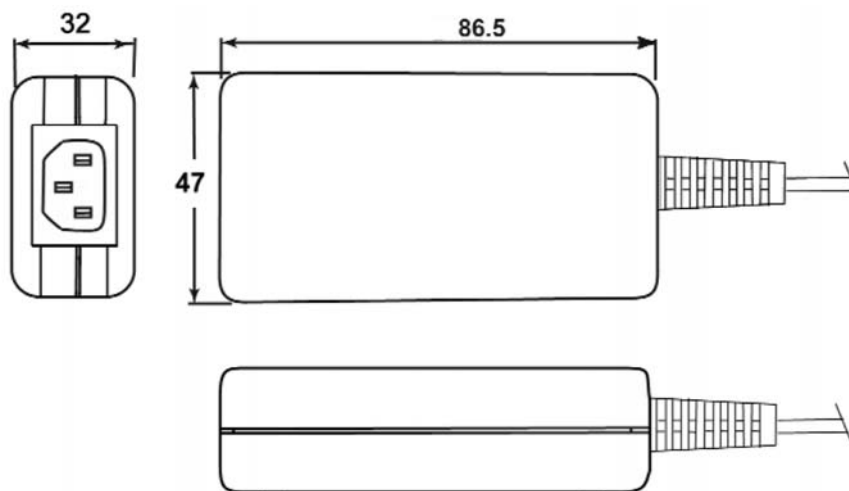
**INPUT CONNECTOR:**

CONFIGURATION:

CLASS I FE MODEL IEC60320 / C14, AC

POWER

RECEPTACLE WITH 3 MALE PINS.



**DESKTOP CLASS II: T2**

**SIZE:**

86.5 x 47 x 32 + 0.5 mm

**INPUT CONNECTOR:**

CONFIGURATION: CLASS II

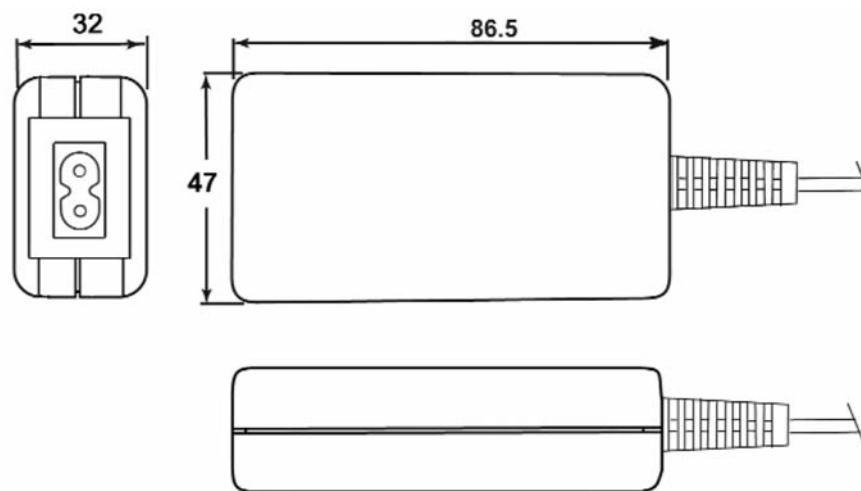
MODEL IEC60320 / C8, AC

POWER RECEPTACLE

(NON-POLARIZED,

SHAVER STYLE)

WITH 2 MALE PINS



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**0-19 Watts, Wall Plug-In, N.A., Japan, Europe, U.K., Australia,  
Universal Input, Single Output Family, Medical Class I & II**



Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
< 0.5 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
19 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
≤ 1% TYP

**OUTPUT REGULATION (LINE/LOAD):**  
± 5% FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

**LINE REGULATION:**  
± 1% MAX AT FULL LOAD

**TURN ON/ TURN OFF OVERTHOOT:**  
5% MAX 500µs MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC TYPICAL

**HOLD-UP TIME:**  
10 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

**INRUSH CURRENT:**  
30 A TYPICAL AT COLD START FOR N.A. (40A FOR EURO)

**EFFICIENCY:**  
75 % TYPICAL

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL; VARIES WITH LINE AND LOAD

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE, CROWBAR METHOD

**OVER-CURRENT / SHORT CIRCUIT:**  
MOMENTARY SHORT CIRCUIT PROTECTED, OUTPUT WILL AUTORECOVER UPON REMOVAL OF SHORT.

**OTHER PROTECTION:**  
INPUT LINE AND NEUTRAL FUSING

**SAFETY APPROVALS:**  
UL 60601-1, CUL TO 22.2 NO. 601, TUV EN60601, AND cTUVus TO UL 60601-1 FOR CLASS I AND CLASS II; PSE TO J60950, CE FOR EMC, CB REPORT

**DIELECTRIC WITHSTAND VOLTAGE:**  
5656 VDC (4000 VAC) PRIMARY-SECONDARY  
2121 VDC (1500 VAC) PRIMARY- GROUND

**LEAKAGE CURRENT:**  
< 300 µA AT 264VAC INPUT VOLTAGE

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

**EMI:**

COMPLIES WITH EN55022 AND EN55011, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

**CE MARK:**

EN55011, Group 1, Class B, EN5022 Class B, EN55011, Group 1, Class B; EN55024 / EN60601-1-2 / IEC 61000-4-3:2002; EN55024 / EN60601-1-2 / IEC 61000-4-6:2001 ; EN55024 / EN60601-1-2 / IEC 61000-4-8:2001; EN55024 / EN60601-1-2 / IEC 61000-4-11:2001; EN55024 / EN60601-1-2 / IEC 61000-4-4:2001; EN55024 / EN60601-1-2 / IEC 61000-4-2:2001; EN55024 / EN60601-1-2 / IEC 61000-4-5:2001; EN55024 / EN 61000-3-3 A1: 2001 / EN 61000-3-3 A1: 2001; EN55024 / EN 61000-3-2:2001 / EN 61000-3-2:2001. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**

GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE, AND NOMINAL LINE AT FULL LOAD PER MIL-217.

**OPERATING TEMPERATURE:**

0° C TO 40° C

**STORAGE TEMPERATURE:**

-10° C TO 80° C

**HUMIDITY:**

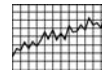
0% TO 90% RELATIVE HUMIDITY

**MODEL NUMBER CODE:**

GT-2: INTERNAL CODE;  
M: MEDICAL MODEL  
1089: FAMILY DESIGNATION;  
1003 TO 1948: POWER/INPUT VOLTAGE;  
W: WALL PLUG IN;  
3: CLASS II WITH FUNCTIONAL EARTH (3 PRONG)  
2: CLASS II, DOUBLE INSULATED;  
-,E,U,A: PLUG CONFIGURATION: N.A.; EURO; U.K.; AUSTRALIA

**NOTES:**

- EACH OUTPUT CURRENT MAY VARY WITHIN ITS DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
- OUTPUTS ARE AVAILABLE FROM 3.3V-48V IN 0.1V INCREMENTS
- (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "C" FOR ELECTRICAL PERFORMANCE CURVES

**OUTPUT VOLTAGE / CURRENT:  
CLASS I MODELS, FUNCTIONAL GROUND**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM21089-1003-W3(W3U, W3A)	+3.3	0 - 2.6	0-9
GTM21089-1305-1.0-W3(W3U, W3A)	+4.0	0 - 2.6	0-10
GTM21089-1305-X.X-W3(W3U, W3A)	+5.0	0 - 2.6	0-13
GTM21089-1506-X.X-W3(W3U, W3A)	+6.0	0 - 2.5	0-15
GTM21089-1509-2.0-W3(W3U, W3A)	+7.0	0 - 2.0	0-15
GTM21089-1509-1.0-W3(W3U, W3A)	+8.0	0 - 1.8	0-15
GTM21089-1509-X.X-W3(W3U, W3A)	+9.0	0 - 1.7	0-15
GTM21089-1512-2.0-W3(W3U, W3A)	+10.0	0 - 1.5	0-15
GTM21089-1512-1.0-W3(W3U, W3A)	+11.0	0 - 1.3	0-15



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**0-19 Watts, Wall Plug-In, N.A., Japan, Europe, U.K., Australia,  
Universal Input, Single Output Family, Medical Class I & II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY



MODEL NUMBER		OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM21089-1512-X.X-W3(W3U, W3A)		+12.0	0 - 1.25	0-15
GTM21089-1815-2.0-W3(W3U, W3A)		+13.0	0 - 1.15	0-15
GTM21089-1815-1.2-W3(W3U, W3A)		+13.8	0 - 1.09	0-15
GTM21089-1815-1.0-W3(W3U, W3A)		+14.0	0 - 1.07	0-15
GTM21089-1815-X.X-W3(W3U, W3A)		+15.0	0 - 1.2	0-18
GTM21089-1818-2.0-W3(W3U, W3A)		+16.0	0 - 1.2	0-18
GTM21089-1818-1.0-W3(W3U, W3A)		+17.0	0 - 1.0	0-18
GTM21089-1818-X.X-W3(W3U, W3A)		+18.0	0 - 1.0	0-18
GTM21089-1824-5.0-W3(W3U, W3A)		+19.0	0 - 0.95	0-18
GTM21089-1824-4.0-W3(W3U, W3A)		+20.0	0 - 0.90	0-18
GTM21089-1824-X.X-W3(W3U, W3A)		+24.0	0 - 1.0	0-18
GTM21089-1948-20.4-W3(W3U, W3A)	(TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GTM21089-1940-18.0-W3(W3U, W3A)	(TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GTM21089-1948-12.0-W3(W3U, W3A)	(TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GTM21089-1948-X.X-W3(W3U, W3A)	(TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19

**OUTPUT VOLTAGE / CURRENT:  
CLASS II MODELS, DOUBLE INSULATED**

GTM21089-0903-W2(W2E, W2U, W2A)		+3.3	0 - 2.6	0-9
GTM21089-0905-1.0-W2(W2E, W2U, W2A)		+4.0	0 - 2.6	0-9
GTM21089-1305-X.X-W2(W2E, W2U, W2A)		+5.0	0 - 2.6	0-13
GTM21089-1506-X.X-W2(W2E, W2U, W2A)		+6.0	0 - 2.5	0-15
GTM21089-1509-2.0-W2(W2E, W2U, W2A)		+7.0	0 - 2.0	0-15
GTM21089-1509-1.0-W2(W2E, W2U, W2A)		+8.0	0 - 1.8	0-15
GTM21089-1509-X.X-W2(W2E, W2U, W2A)		+9.0	0 - 1.7	0-15
GTM21089-1512-2.0-W2(W2E, W2U, W2A)		+10.0	0 - 1.5	0-15
GTM21089-1512-1.0-W2(W2E, W2U, W2A)		+11.0	0 - 1.3	0-15
GTM21089-1512-X.X-W2(W2E, W2U, W2A)		+12.0	0 - 1.25	0-15
GTM21089-1815-2.0-W2(W2E, W2U, W2A)		+13.0	0 - 1.15	0-15
GTM21089-1815-1.2-W2(W2E, W2U, W2A)		+13.8	0 - 1.09	0-15
GTM21089-1815-1.0-W2(W2E, W2U, W2A)		+14.0	0 - 1.07	0-15
GTM21089-1815-X.X-W2(W2E, W2U, W2A)		+15.0	0 - 1.2	0-18
GTM21089-1818-2.0-W2(W2E, W2U, W2A)		+16.0	0 - 1.2	0-18
GTM21089-1818-1.0-W2(W2E, W2U, W2A)		+17.0	0 - 1.0	0-18
GTM21089-1818-X.X-W2(W2E, W2U, W2A)		+18.0	0 - 1.0	0-18
GTM21089-1824-5.0-W2(W2E, W2U, W2A)		+19.0	0 - 0.95	0-18
GTM21089-1824-4.0-W2(W2E, W2U, W2A)		+20.0	0 - 0.90	0-18
GTM21089-1824-X.X-W2(W2E, W2U, W2A)		+24.0	0 - 1.0	0-18
GTM21089-1948-20.4-W2(W2E, W2U, W2A)	(TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GTM21089-1940-18.0-W2(W2E, W2U, W2A)	(TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GTM21089-1948-12.0-W2(W2E, W2U, W2A)	(TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GTM21089-1948-X.X-W2(W2E, W2U, W2A)	(TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR RECENT SPECIFICATIONS.



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# GTM21089 SERIES-19W



**0-19 Watts, Wall Plug-In, N.A., Japan, Europe, U.K., Australia,  
Universal Input, Single Output Family, Medical Class I & II**

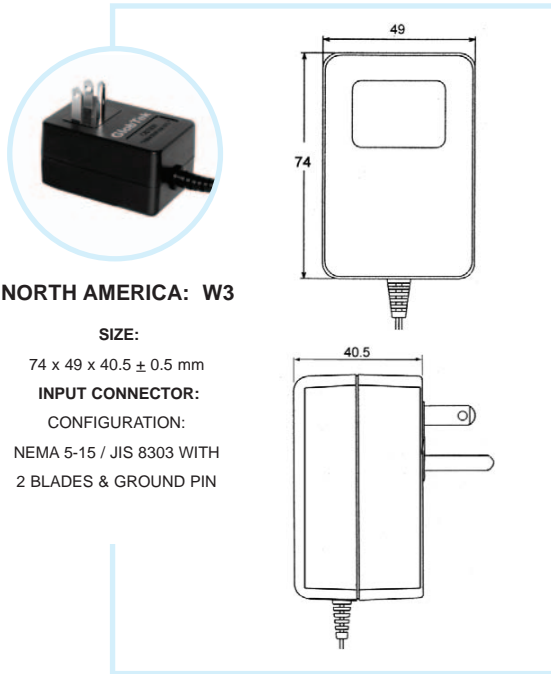
Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



 INDOOR USE ONLY



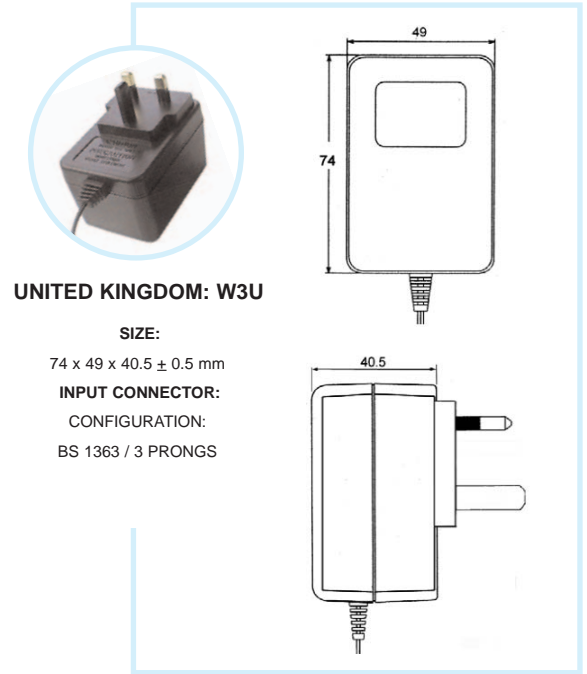
## ENCLOSURES



**NORTH AMERICA: W3**

**SIZE:**  
74 x 49 x 40.5 ± 0.5 mm

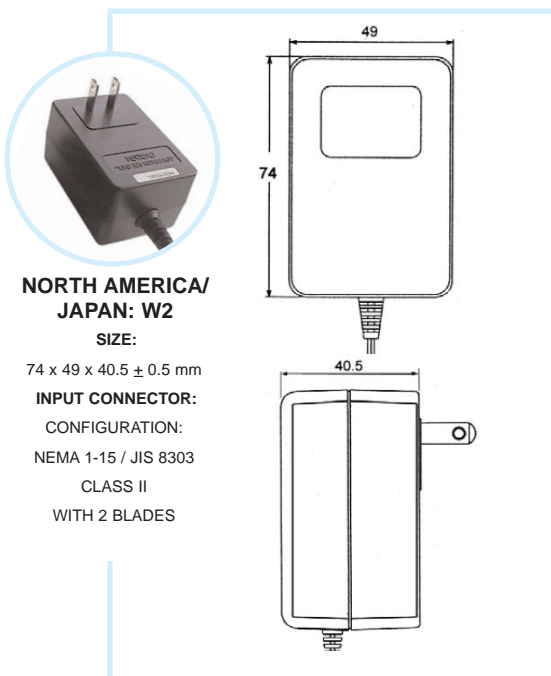
**INPUT CONNECTOR:**  
CONFIGURATION:  
NEMA 5-15 / JIS 8303 WITH  
2 BLADES & GROUND PIN



**UNITED KINGDOM: W3U**

**SIZE:**  
74 x 49 x 40.5 ± 0.5 mm

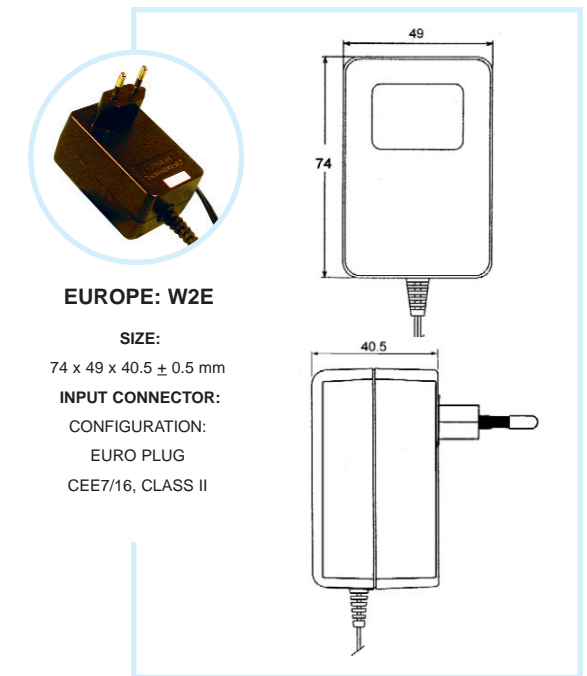
**INPUT CONNECTOR:**  
CONFIGURATION:  
BS 1363 / 3 PRONGS



**NORTH AMERICA/  
JAPAN: W2**

**SIZE:**  
74 x 49 x 40.5 ± 0.5 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
NEMA 1-15 / JIS 8303  
CLASS II  
WITH 2 BLADES



**EUROPE: W2E**

**SIZE:**  
74 x 49 x 40.5 ± 0.5 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
EURO PLUG  
CEE7/16, CLASS II

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**0-19 Watts, Wall Plug-In, N.A., Japan, Europe, U.K., Australia,  
Universal Input, Single Output Family, Medical Class I & II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY



**AUSTRALIA: W2A**

**SIZE:**  
74 x 49 x 40.5  
± 0.5 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
AS/NZ 3112  
SAA PLUG,  
2 BLADES

**UNITED KINGDOM: W2U**

**SIZE:**  
74 x 49 x 40.5 ± 0.5 mm

**INPUT CONNECTOR:**  
CONFIGURATION:  
BS 1363 / 3 PRONGS  
(GROUND PRONG  
FLOATING, USED FOR  
MECHANICAL RIGIDITY)

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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**0-19 Watts, DeskTop Universal Input, Single Output  
Family, Medical Class I & II**

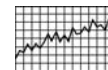
Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**ELECTRICAL SPECIFICATIONS:**

- INPUT VOLTAGE:**  
90 VAC TO 264 VAC
- INPUT CURRENT:**  
< 0.5 A RMS AT 90 VAC INPUT
- INPUT FREQUENCY:**  
47 HZ - 63 HZ
- OUTPUT CURRENT:**  
NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED
- OUTPUT POWER (RATED):**  
19 WATTS MAX
- OUTPUT RIPPLE (PEAK TO PEAK):**  
≤ 1% TYP
- OUTPUT REGULATION (LINE/LOAD):**  
± 5% FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR
- LINE REGULATION:**  
± 1% MAX AT FULL LOAD
- TURN ON/ TURN OFF OVERTHOOT:**  
5% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD
- TURN-ON DELAY:**  
1 SEC TYPICAL
- HOLD-UP TIME:**  
10 mSEC MIN AT NOMINAL INPUT AND FULL LOAD
- INRUSH CURRENT:**  
30 A TYPICAL AT COLD START FOR N.A. (40A FOR EURO)
- EFFICIENCY:**  
75 % TYPICAL
- SWITCHING FREQUENCY:**  
100 KHZ TYPICAL
- OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE
- OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO
- OTHER PROTECTION:**  
INPUT LINE AND NEUTRAL FUSING
- SAFETY APPROVALS:**  
**MEDICAL MODELS:**  
UL 60601-1, CUL TO 22.2 NO. 601, TUV EN60601, AND cTUVus TO UL 60601 FOR CLASS I AND CLASS II; CE FOR EMC, PSE TO J60950, PSE TO J60950
- DIELECTRIC WITHSTAND VOLTAGE:**  
5656 VDC (4000 VAC) PRIMARY-SECONDARY  
2121 VDC (1500 VAC) PRIMARY- GROUND

- LEAKAGE CURRENT:**  
< 300uA AT 264VAC INPUT VOLTAGE
- LINE SURGE:**  
EN 61000-4-5 LEVEL 4
- EMI:**  
COMPLIES WITH EN55022 AND EN55011, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED
- CE MARK:**  
EN55011, Group 1, Class B, EN5022 Class B, EN55011, Group 1, Class B; EN55024 / EN60601-1-2 / IEC 61000-4-3:2002; EN55024 / EN60601-1-2 / IEC 61000-4-6:2001 ; EN55024 / EN60601-1-2 / IEC 61000-4-8:2001; EN55024 / EN60601-1-2 / IEC 61000-4-11:2001; EN55024 / EN60601-1-2 / IEC 61000-4-4:2001; EN55024 / EN60601-1-2 / IEC 61000-4-2:2001; EN55024 / EN60601-1-2 / IEC 61000-4-5:2001; EN55024 / EN 61000-3-3 A1: 2001 / EN 61000-3-3 A1: 2001; EN55024 / EN 61000-3-2:2001 / EN 61000-3-2:2001. UNIT IS ELIGIBLE FOR CE MARK.
- MTBF:**  
GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE, AND NOMINAL LINE AT FULL LOAD PER MIL-217.
- OPERATING TEMPERATURE:**  
0° C TO 40° C
- STORAGE TEMPERATURE:**  
-40° C TO 80° C
- HUMIDITY:**  
0% TO 90% RELATIVE HUMIDITY
- MODEL NUMBER CODE:**  
GT-2: INTERNAL CODE;  
M: MEDICAL MODEL  
1089: FAMILY DESIGNATION;  
1003 TO 1948: POWER/INPUT VOLTAGE;  
T: DESKTOP;  
3: CLASS II WITH FUNCTIONAL EARTH (3 PRONGS)  
2: CLASS II, DOUBLE INSULATED;
- NOTES:**  
1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.  
2. OUTPUTS ARE AVAILABLE FROM 3.3V-48V IN 0.1V INCREMENTS  
3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "C" FOR ELECTRICAL PERFORMANCE CURVES

**OUTPUT VOLTAGE / CURRENT:  
CLASS I MODELS, PROTECTIVE GROUND**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM21089-1003-T3	+3.3	0 - 2.6	0-9
GTM21089-1305-1.0-T3	+4.0	0 - 2.6	0-10
GTM21089-1305-X.X-T3	+5.0	0 - 2.6	0-13
GTM21089-1506-X.X-T3	+6.0	0 - 2.5	0-15
GTM21089-1509-2.0-T3	+7.0	0 - 2.0	0-15
GTM21089-1509-1.0-T3	+8.0	0 - 1.8	0-15
GTM21089-1509-X.X-T3	+9.0	0 - 1.7	0-15
GTM21089-1512-2.0-T3	+10.0	0 - 1.5	0-15
GTM21089-1512-1.0-T3	+11.0	0 - 1.3	0-15

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
REGISTERED



**0-19 Watts, DeskTop Universal Input, Single Output  
Family, Medical Class I & II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

**OUTPUT VOLTAGE / CURRENT:  
CLASS I MODELS, FUNCTIONAL GROUND**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM21089-1512-X.X-T3	+12.0	0 - 1.25	0-15
GTM21089-1815-2.0-T3	+13.0	0 - 1.15	0-15
GTM21089-1815-1.2-T3	+13.8	0 - 1.09	0-15
GTM21089-1815-1.0-T3	+14.0	0 - 1.07	0-15
GTM21089-1815-X.X-T3	+15.0	0 - 1.2	0-18
GTM21089-1818-2.0-T3	+16.0	0 - 1.2	0-18
GTM21089-1818-1.0-T3	+17.0	0 - 1.0	0-18
GTM21089-1818-X.X-T3	+18.0	0 - 1.0	0-18
GTM21089-1824-5.0-T3	+19.0	0 - 0.95	0-18
GTM21089-1824-4.0-T3	+20.0	0 - 0.90	0-18
GTM21089-1824-X.X-T3	+24.0	0 - .75	0-18
GTM21089-1948-20.4-T3 (TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GTM21089-1940-18.0-T3 (TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GTM21089-1948-12.0-T3 (TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GTM21089-1948-X.X-T3 (TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19

**OUTPUT VOLTAGE / CURRENT:  
CLASS II MODELS, DOUBLE INSULATED**

GTM21089-1003-T2	+3.3	0 - 2.6	0-9
GTM21089-1505-1.0-T2	+4.0	0 - 2.6	0-9
GTM21089-1505-X.X-T2	+5.0	0 - 2.6	0-13
GTM21089-1506-X.X-T2	+6.0	0 - 2.5	0-15
GTM21089-1509-2.0-T2	+7.0	0 - 2.0	0-15
GTM21089-1509-1.0-T2	+8.0	0 - 1.8	0-15
GTM21089-1509-X.X-T2	+9.0	0 - 1.7	0-15
GTM21089-1512-2.0-T2	+10.0	0 - 1.5	0-15
GTM21089-1512-1.0-T2	+11.0	0 - 1.3	0-15
GTM21089-1512-X.X-T2	+12.0	0 - 1.25	0-15
GTM21089-1815-3.0-T2	+13.0	0 - 1.15	0-15
GTM21089-1815-2.0-T3	+13.8	0 - 1.09	0-15
GTM21089-1815-1.0-T2	+14.0	0 - 1.07	0-15
GTM21089-1815-X.X-T2	+15.0	0 - 1.2	0-18
GTM21089-1818-2.0-T2	+16.0	0 - 1.2	0-18
GTM21089-1818-1.0-T2	+17.0	0 - 1.0	0-18
GTM21089-1818-X.X-T2	+18.0	0 - 1.0	0-18
GTM21089-1824-5.0-T2	+19.0	0 - 0.95	0-18
GTM21089-1824-4.0-T2	+20.0	0 - 0.90	0-18
GTM21089-1824-X.X-T2	+24.0	0 - .75	0-18
GTM21089-1948-20.4-T3 (TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GTM21089-1940-18.0-T2 (TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GTM21089-1948-12.0-T2 (TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GTM21089-1948-X.X-T2 (TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19





ISO 9001:2000  
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**0-19 Watts, DeskTop Universal Input, Single Output  
Family, Medical Class I & II**




Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

INDOOR USE ONLY



**ENCLOSURES**

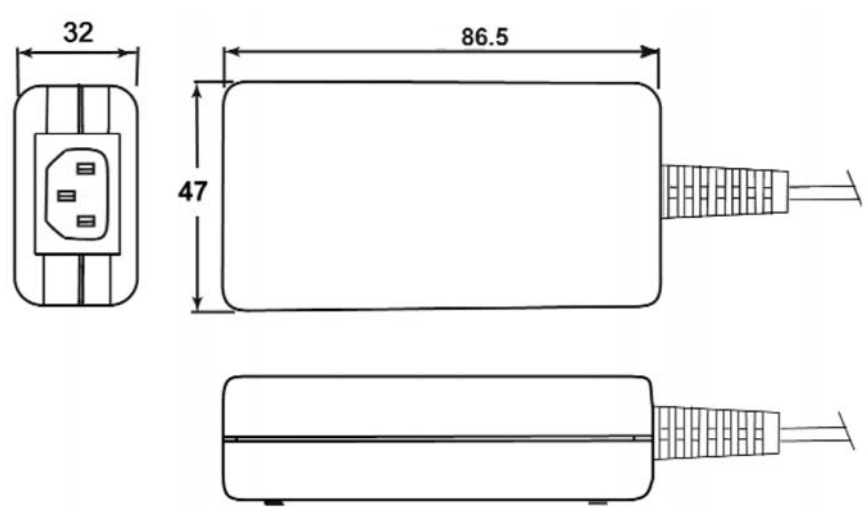

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK



**DESKTOP CLASS I: T3**

**SIZE:**  
86.5 x 47 x 32 ± 0.5 mm

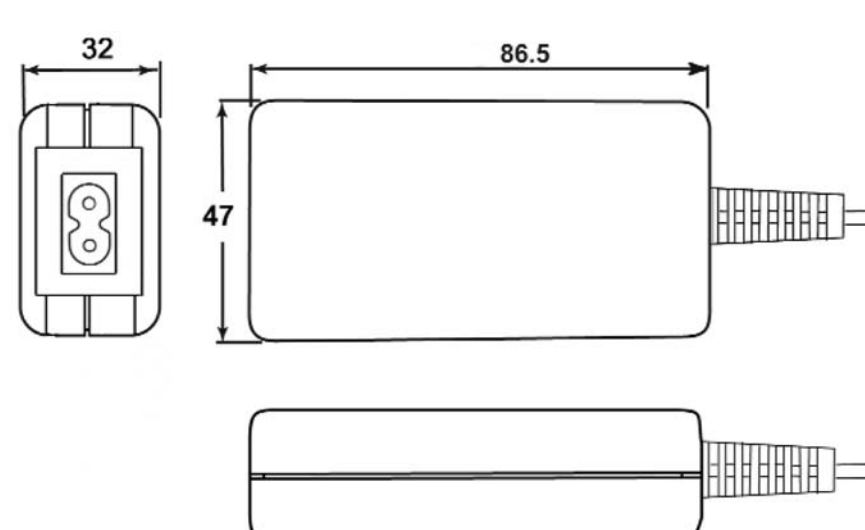
**INPUT CONNECTOR:**  
CONFIGURATION:  
CLASS I FE MODEL IEC60320 / C14, AC  
POWER RECEPTACLE WITH  
3 MALE PINS.

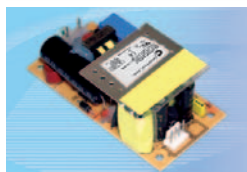
**DESKTOP CLASS II: T2**

**SIZE:**  
86.5 x 47 x 32 ± 0.5 mm

**INPUT CONNECTOR:**  
CONFIGURATION: CLASS II FE MODEL  
IEC60320 / C8, AC POWER RECEPTACLE  
(NON-POLARIZED, SHAVER STYLE)  
WITH 2 MALE PINS.



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

ISO 9001:2000  
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### 0-19 Watts, Switchmode, Single Output, Family (1.7"x3.3") Open Frame & PCB Mount, Universal Input, ITE, Class I & II

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 36)



FOR CLASS I MODELS WITH 'PE' CONNECTED, THE OUTPUT IS NOT FLOATING. OPTIONAL MODELS WITH ISOLATED GROUND HAVE FLOATING OUTPUT.

#### ELECTRICAL SPECIFICATIONS:

##### INPUT VOLTAGE:

90 VAC TO 264 VAC

##### INPUT CURRENT:

&lt; 0.5 A RMS AT 90 VAC INPUT

##### INPUT FREQUENCY:

47 HZ - 63 HZ

##### OUTPUT CURRENT:

NO MINIMUM LOAD REQUIRED

##### OUTPUT POWER (RATED):

19 WATTS MAX

##### OUTPUT RIPPLE (PEAK TO PEAK):

1% OF OUTPUT VOLTAGE, PEAK TO PEAK, TYPICAL

##### OUTPUT REGULATION (LINE/LOAD):

± 5% MEASURED AT THE OUTPUT CONNECTOR

##### LINE REGULATION:

+/- 1% TYPICAL MEASURED AT FULL LOAD

##### REMOTE SENSING (OPTION):

PROVIDES REGULATION WITHIN + 1% OF NOMINAL VOLTAGE OF MAIN OUTPUT AT LOAD LEVEL. FOR 3.3V SINGLE OUTPUT, REMOTE IS REQUIRED.

##### TURN ON/ TURN OFF OVERSHOOT:

5% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25% STEP LOAD

##### TURN-ON DELAY:

1 SEC MAX

##### HOLD-UP TIME:

10mS TYPICAL AT NOMINAL INPUT VOLTAGE AND FULL LOAD

##### INRUSH CURRENT:

30A TYPICAL AT 115Vac INPUT AND 40A TYPICAL AT 230Vac INPUT

##### EFFICIENCY:

75 % TYPICAL

##### SWITCHING FREQUENCY:

100KHZ TYPICAL, VARIES WITH LINE AND LOAD

##### OVER-VOLTAGE PROTECTION:

OVER-VOLTAGE: VOLTAGE LIMITED TO LESS THAN 130%, CROWBAR METHOD

##### OVER-CURRENT / SHORT CIRCUIT:

CONSTANT CURRENT METHOD MOMENTARY SHORT CIRCUIT PROTECTED, OUTPUT WILL AUTORECOVER UPON REMOVAL OF SHORT.

##### OTHER PROTECTION:

INPUT FUSING; LINE FUSING

##### SAFETY APPROVALS:

UL 60950, CUL TO 22.2 NO.60950, TUV TO EN60950 AND cTUVus TO UL 60950 FOR CLASS I AND CLASS II; CE FOR EMC, CB TO IEC60950 (ALL NATIONAL DEVIATION)

##### DIELECTRIC WITHSTAND VOLTAGE:

5656VDC (4000 VAC) PRIMARY-SECONDARY;  
2121 VDC (1500 VAC) PRIMARY- GROUND

##### LEAKAGE CURRENT:

&lt; 300 µA AT 264 VAC INPUT VOLTAGE

##### LINE SURGE:

EN 61000-4-5 LEVEL 4

##### EMI:

COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED EMI

##### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN610003-3 AND EN50082-1 INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 LEVEL 4..

##### MTBF:

GREATER THAN 50,000 HOURS AT 25° C AMBIENT TEMPERATURE

##### NOMINAL LINE AND FULL LOAD PER MIL-217 STANDARD

##### OPERATING TEMPERATURE:

0° C TO 40° C AMBIENT TEMPERATURE

##### STORAGE TEMPERATURE:

-40° C TO 80° C

##### HUMIDITY:

0% TO 90% RELATIVE HUMIDITY

##### MODEL NUMBER CODE:

GT-2: INTERNAL CODE;

-: ITE MODEL, UL 60950

1096: FAMILY DESIGNATION, 10-20W OPEN FRAME

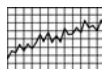
1003 TO 1948: OUTPUT POWER / OUTPUT VOLTAGE

F: OPEN FRAME OR B: PCB MOUNTED

:- UNITS ENDING WITH "W" ARE CLASS II UNITS, UNITS ENDING WITHOUT "W" ARE CLASS I UNITS.

##### NOTES:

1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
2. SINGLE OUTPUT ARE AVAILABLE FROM 3.3V-48V IN 0.1V INCREMENTS
3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "C" FOR ELECTRICAL PERFORMANCE CURVES

\*FROM 24.1 V TO 48 V, AVAILABLE ONLY WITH TUV AND CB APPROVALS.

#### OUTPUT VOLTAGE / CURRENT:

##### CLASS I MODELS, PROTECTIVE GROUND

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21096-1003-F(B)(W)	+3.3	0 - 2.6	0-9
GT-21096-1505-1.0-F(B)(W)	+4.0	0 - 2.6	0-10
GT-21096-1505-X.X-F(B)(W)	+5.0	0 - 2.6	0-13
GT-21096-1506-X.X-F(B)(W)	+6.0	0 - 2.5	0-15
GT-21096-1509-2.0-F(B)(W)	+7.0	0 - 2.0	0-15
GT-21096-1509-1.0-F(B)(W)	+8.0	0 - 1.8	0-15

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR RECENT SPECIFICATIONS.



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## GT-21096 SERIES-19W

### 0-19 Watts, Switchmode, Single Output, Family (1.7"x3.3") Open Frame & PCB Mount, Universal Input, ITE, Class I & II

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 36)



INDOOR USE ONLY

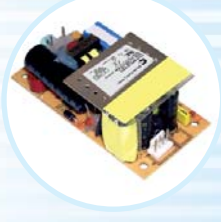
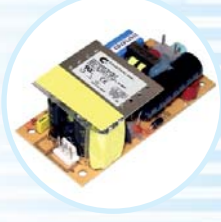
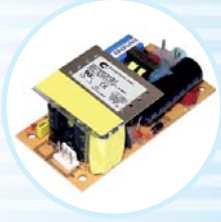
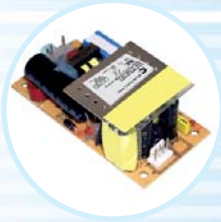
**OUTPUT VOLTAGE / CURRENT:  
CLASS I MODELS, PROTECTIVE GROUND**



MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21096-1509-X.X-F(B)	+9.0	0 - 1.7	0-15
GT-21096-1512-2.0-F(B)	+10.0	0 - 1.5	0-15
GT-21096-1512-1.0-F(B)	+11.0	0 - 1.3	0-15
GT-21096-1512-X.X-F(B)	+12.0	0 - 1.25	0-15
GT-21096-1815-2.0--T3-F(B)	+13.0	0 - 1.15	0-15
GT-21096-1815-1.2-F(B)	+13.8	0 - 1.09	0-15
GT-21096-1815-1.0-F(B)	+14.0	0 - 1.07	0-15
GT-21096-1815-X.X-F(B))	+15.0	0 - 1.2	0-18
GT-21096-1818-2.0-F(B))	+16.0	0 - 1.2	0-18
GT-21096-1818-1.0-F(B)	+17.0	0 - 1.0	0-18
GT-21096-1818-X.X-F(B)	+18.0	0 - 1.0	0-18
GT-21096-1824-5.0-F(B)	+19.0	0 - 0.95	0-18
GT-21096-1824-4.0-F(B)	+20.0	0 - 0.90	0-18
GT-21096-1824-X.X-F(B)	+24.0	0 - .75	0-18
GT-21096-1948-20.4-F(B) (TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GT-21096-1940-18.0-F(B) (TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GT-21096-1948-12.0-F(B) (TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GT-21096-1948-X.X-F(B) (TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19

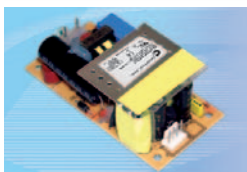
**OUTPUT VOLTAGE / CURRENT:  
CLASS II MODELS, DOUBLE INSULATED**

GT-21096-1003-F(B)(W)	+3.3	0 - 2.6	0-9
GT-21096-1505-1.0-F(B)W	+4.0	0 - 2.6	0-9
GT-21096-1505-X.X-F(B)W	+5.0	0 - 2.6	0-13
GT-21096-1506-X.X-F(B)W	+6.0	0 - 2.5	0-15
GT-21096-1509-2.0-F(B)W	+7.0	0 - 2.0	0-15
GT-21096-1509-1.0-F(B)W	+8.0	0 - 1.8	0-15
GT-21096-1509-X.X-F(B)W	+9.0	0 - 1.7	0-15
GT-21096-1512-2.0-F(B)W	+10.0	0 - 1.5	0-15
GT-21096-1512-1.0-F(B)W	+11.0	0 - 1.3	0-15
GT-21096-1512-X.X-F(B)W	+12.0	0 - 1.25	0-15
GT-21096-1815-2.0-T3-F(B)W	+13.0	0 - 1.15	0-15
GT-21096-1815-1.2-F(B)W	+13.8	0 - 1.09	0-15
GT-21096-1815-1.0-F(B)W	+14.0	0 - 1.07	0-15
GT-21096-1815-X.X-F(B)W	+15.0	0 - 1.2	0-18
GT-21096-1818-2.0-F(B)W	+16.0	0 - 1.2	0-18
GT-21096-1818-1.0-F(B)W	+17.0	0 - 1.0	0-18
GT-21096-1818-X.X-F(B)W	+18.0	0 - 1.0	0-18
GT-21096-1824-5.0-F(B)W	+19.0	0 - 0.95	0-18
GT-21096-1824-4.0-F(B)W	+20.0	0 - 0.90	0-18
GT-21096-1824-X.X-F(B)W	+24.0	0 - .75	0-18
GT-21096-1948-20.4-F(B)W (TUV/NRTL REPLACES UL/NRTL)	+27.6	0 - 0.65	0-18
GT-21096-1940-18.0-F(B)W (TUV/NRTL REPLACES UL/NRTL)	+30.0	0 - 0.6	0-18
GT-21096-1948-12.0-F(B)W (TUV/NRTL REPLACES UL/NRTL)	+36.0	0 - 0.5	0-19
GT-21096-1948-X.X-F(B)W (TUV/NRTL REPLACES UL/NRTL)	+48.0	0 - 0.4	0-19





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**0-19 Watts, Switchmode, Single Output, Family (1.7"x3.3")  
Open Frame & PCB Mount, Universal Input, ITE, Class I & II**

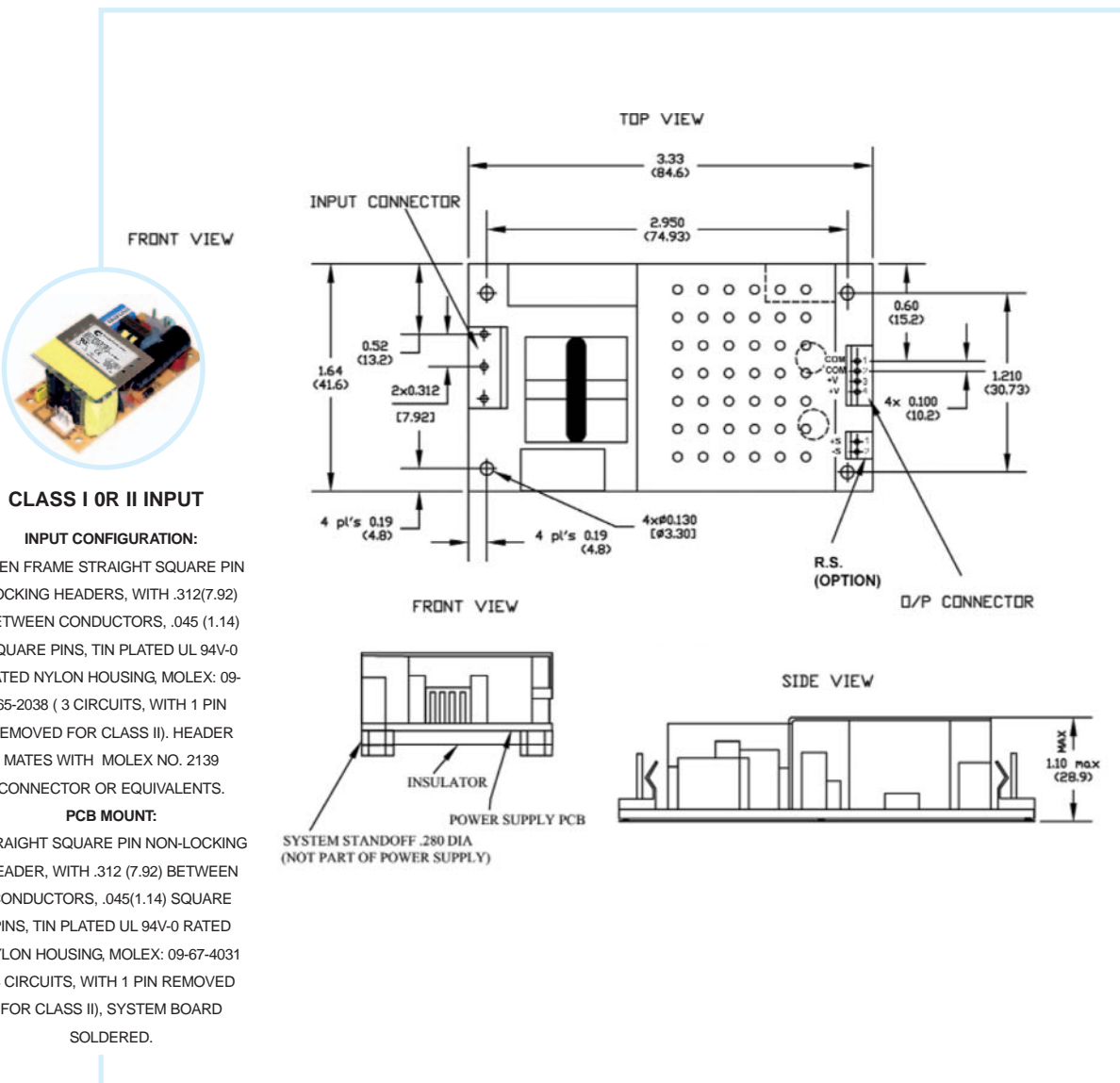
Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 36)



INDOOR USE ONLY

**MECHANICAL CONFIGURATION**

OPEN FRAME SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOWN.  
OPTION: PCB MOUNT, WITH IN / OUT CONNECTORS HEADERS PINS ON PCB SOLDER SIDE.



**CLASS I OR II INPUT**

**INPUT CONFIGURATION:**

OPEN FRAME STRAIGHT SQUARE PIN LOCKING HEADERS, WITH .312(7.92) BETWEEN CONDUCTORS, .045 (1.14) SQUARE PINS, TIN PLATED UL 94V-0 RATED NYLON HOUSING, MOLEX: 09-65-2038 ( 3 CIRCUITS, WITH 1 PIN REMOVED FOR CLASS II), HEADER MATES WITH MOLEX NO. 2139 CONNECTOR OR EQUIVALENTS.

**PCB MOUNT:**

STRAIGHT SQUARE PIN NON-LOCKING HEADER, WITH .312 (7.92) BETWEEN CONDUCTORS, .045(1.14) SQUARE PINS, TIN PLATED UL 94V-0 RATED NYLON HOUSING, MOLEX: 09-67-4031 (3 CIRCUITS, WITH 1 PIN REMOVED FOR CLASS II), SYSTEM BOARD SOLDERED.

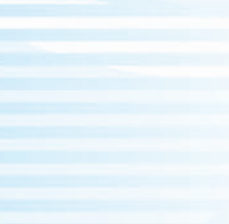
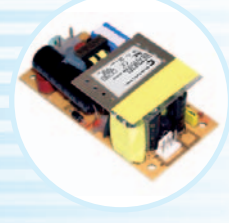
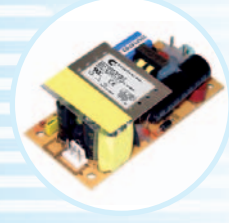
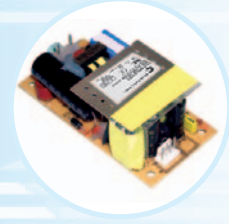
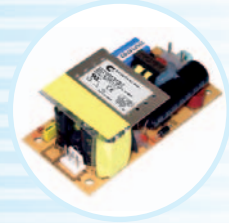
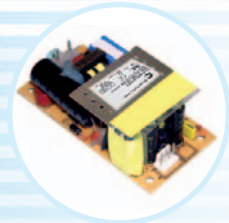
**OUTPUT CONNECTOR:**

OPEN FRAME: 4 PIN STRAIGHT SQUARE PIN FRICTION LOCK HEADER, MOLEX: 22-28-0040 UL 94V-0 RATED NYLON HOUSING; .100 (2.54) BETWEEN CONDUCTORS, .025(0.64) SQUARE PINS, TIN PLATED, HEADER MATCH WITH MOLEX # 2695 CONNECTORS OR EQUIVALENT.

PCB MOUNT: 4 PINS STRAIGHT SQUARE NON-LOCKING HEADER WITH .100(2.54) BETWEEN CONDUCTORS, .025(0.64) SQUARE PINS, TIN MATED UL 94V-0 RATED NYLON HOUSING, MOLEX 22-03-2041, SYSTEM BOARD SOLDERED.

REMOTE SENSE (OPTION): 2 PINS STRAIGHT HEADER WITH LOCKING RAMP, WITH UL 94V-0 RATED NYLON BASE, .100(2.54) PITCH BETWEEN CONDUCTORS, .025 (0.64) SQUARE PINS, TIN PLATED MOLEX: 22- 28-0020, HEADER MATES WITH MOLEX # 2695 CONNECTOR OR EQUIVALENT.

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



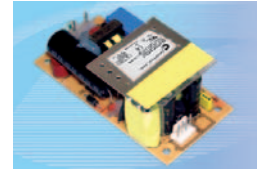


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GTM21096 SERIES-19W



**0-19 Watts, Switchmode, Single Output, Family (1.7"x3.3")  
Open Frame & PCB Mount, Universal Input, Medical, Class I & II**



Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

 INDOOR USE ONLY



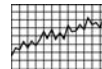
ALL MODELS UNDER THIS SERIES ARE CERTIFIED TO BE IN COMPLIANCE WITH ALL THE APPLICABLE REQUIREMENTS OF UL60601-1 2ND EDITION, CSA 22.2 NO.601.1-M90 AND EN 60601-1:A2. GLOBTEK'S MEDICAL POWER SUPPLIES ARE DESIGNED TO BE USED IN APPLICATIONS THAT DO NOT CONNECT THE OUTPUT TO PATIENT CIRCUITS DIRECTLY. THE POWER SUPPLY CAN BE USED IN SYSTEM WITH PATIENT APPLIED PARTS ONLY WHEN APPROPRIATE SYSTEM LEVEL ISOLATION IS PROVIDED BY THE END SYSTEM.

**ELECTRICAL SPECIFICATIONS:**

- INPUT VOLTAGE:**  
90 VAC TO 264 VAC
- INPUT CURRENT:**  
< 0.5 A RMS AT 90 VAC INPUT
- INPUT FREQUENCY:**  
47 HZ - 63 HZ
- OUTPUT CURRENT:**  
NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED
- OUTPUT POWER (RATED):**  
19 WATTS MAX
- OUTPUT RIPPLE (PEAK TO PEAK):**  
1% OF OUTPUT VOLTAGE , PEAK TO PEAK, TYPICAL
- OUTPUT REGULATION (LINE/LOAD):**  
± 5% MEASURED AT THE OUTPUT CONNECTOR
- LINE REGULATION:**  
+/- 1% TYPICAL MEASURED AT FULL LOAD
- REMOTE SENSING (OPTION):**  
PROVIDES REGULATION WITHIN + 1% OF NOMINAL VOLTAGE OF MAIN OUTPUT AT LOAD LEVEL. FOR 3.3V SINGLE OUTPUT, REMOTE IS REQUIRED.
- TURN ON/ TURN OFF OVERTHOOT:**  
5% MAXIMUM, 1ms TYPICAL RECOVERY TIME FOR 25% STEP LOAD
- TURN-ON DELAY:**  
1 SEC MAX
- HOLD-UP TIME:**  
10ms TYPICAL AT NOMINAL INPUT VOLTAGE AND FULL LOAD
- INRUSH CURRENT:**  
30A TYPICAL AT 115Vac INPUT AND 40A TYPICAL AT 230Vac INPUT
- EFFICIENCY:**  
75 % TYPICAL
- SWITCHING FREQUENCY:**  
100KHZ TYPICAL, VARIES WITH LINE AND LOAD
- OVER-VOLTAGE PROTECTION:**  
OVER-VOLTAGE: VOLTAGE LIMITED TO LESS THAN 130%, CROWBAR METHOD
- OVER-CURRENT / SHORT CIRCUIT:**  
CONSTANT CURRENT METHOD MOMENTARY SHORT CIRCUIT PROTECTED, OUTPUT WILL AUTORECOVER UPON REMOVAL OF SHORT.
- OTHER PROTECTION:**  
INPUT FUSING; LINE FUSING
- SAFETY APPROVALS:**  
MEDICAL MODELS: UR TO UL 2601, C-UR TO 22.2 # 601, TUV TO EN 60601, CE CLASS I & II

- DIELECTRIC WITHSTAND VOLTAGE:**  
4000VAC PRIMARY-SECONDARY;1500 VAC PRIMARY- GROUND
- LEAKAGE CURRENT:**  
< 0.1 mA
- LINE SURGE:**  
EN 61000-4-5 LEVEL 4
- EMI:**  
COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED EMI
- CE MARK:**  
TESTED TO COMPLY WITH EN61000-3-2 EN610003-3 AND EN50082-1 INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 LEVEL 4..
- MTBF:**  
GREATER THAN 50,000 HOURS AT 25° C AMBIENT TEMPERATURE NOMINAL LINE AND FULL LOAD PER MIL-217 STANDARD
- OPERATING TEMPERATURE:**  
0° C TO 40° C AMBIENT TEMPERATURE
- STORAGE TEMPERATURE:**  
-40° C TO 80° C
- HUMIDITY:**  
0% TO 90% RELATIVE HUMIDITY
- MODEL NUMBER CODE:**  
GTM2: INTERNAL CODE;  
M: MEDICAL MODEL, UL 2601-1  
1096: FAMILY DESIGNATION, 10-20W OPEN FRAME  
1003 TO 1948: OUTPUT POWER / OUTPUT VOLTAGE  
F: OPEN FRAME OR B: PCB MOUNTED  
-: UNITS ENDING WITH "W" ARE CLASS II UNITS, UNITS ENDING WITHOUT "W" ARE CLASS I UNITS.

- NOTES:**
1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
  2. SINGLE OUTPUT ARE AVAILABLE FROM 3.3V-48V IN 0.1V INCREMENTS
  3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "C" FOR ELECTRICAL PERFORMANCE CURVES

\*FROM 24.1 V TO 48 V, AVAILABLE ONLY WITH TUV AND CB APPROVALS.

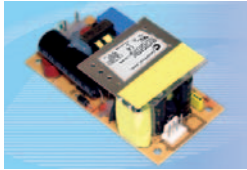
**OUTPUT VOLTAGE / CURRENT:  
CLASS I MODELS, PROTECTIVE GROUND**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM21096-1003-F(B)	+3.3	0 - 2.6	0-9
GTM21096-1505-1.0-F(B)	+4.0	0 - 2.6	0-10
GTM21096-1508-X.X-F(B)	+5.0	0 - 2.6	0-13
GTM21096-1506-X.X-F(B)	+6.0	0 - 2.5	0-15
GTM21096-1509-2.0-F(B)	+7.0	0 - 2.0	0-15
GTM21096-1509-1.0-F(B)	+8.0	0 - 1.8	0-15

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**0-19 Watts, Switchmode, Single Output, Family (1.7"x3.3")  
Open Frame & PCB Mount, Universal Input, Medical, Class I & II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

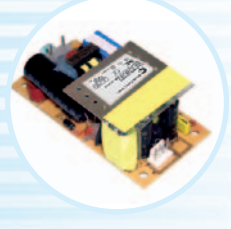
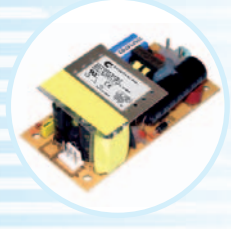
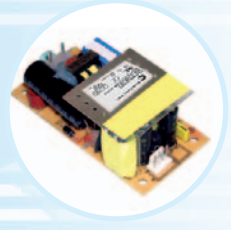
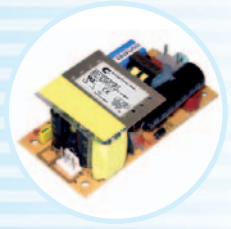
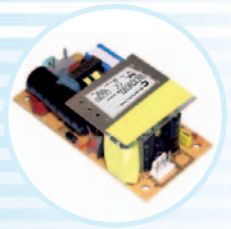


**OUTPUT VOLTAGE / CURRENT:  
CLASS I MODELS, PROTECTIVE GROUND**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM21096-1509-X.X-F(B)	+9.0	0 - 1.7	0-15
GTM21096-1512-2.0-X.X-F(B)	+10.0	0 - 1.5	0-15
GTM21096-1512-1.0-X.X-F(B)	+11.0	0 - 1.3	0-15
GTM21096-1512-X.X-F(B)	+12.0	0 - 1.25	0-15
GTM21096-1815-2.0-X.X-F(B)	+13.0	0 - 1.4	0-18
GTM21096-1815-1.2-X.X-F(B)	+13.8	0 - 1.3	0-18
GTM21096-1815-1.0-X.X-F(B)	+14.0	0 - 1.2	0-18
GTM21096-1815-X.X-F(B)	+15.0	0 - 1.2	0-18
GTM21096-1818-2.0-X.X-F(B)	+16.0	0 - 1.2	0-18
GTM21096-1818-1.0-X.X-F(B)	+17.0	0 - 1.0	0-18
GTM21096-1818-X.X-F(B)	+18.0	0 - 1.0	0-18
GTM21096-1824-5.0-X.X-F(B)	+19.0	0 - 1.15	0-15
GTM21096-1824-4.0-X.X-F(B)	+20.0	0 - 1.09	0-15
GTM21096-1824-X.X-F(B)	+24.0	0 - 1.07	0-15
GTM21089-1948-20.4-X.X-F(B) (C-TUV-US ONLY)	+27.6	0 - 0.65	0-18
GTM21096-1940-18.0-X.X-F(B) (C-TUV-US ONLY)	+30.0	0 - 0.6	0-18
GTM21096-1948-12.0-X.X-F(B) (C-TUV-US ONLY)	+36.0	0 - 0.5	0-19
GTM21096-1948-X.X-F(B) (C-TUV-US ONLY)	+48.0	0 - 0.4	0-19

**OUTPUT VOLTAGE / CURRENT:  
CLASS II MODELS, DOUBLE INSULATED**

GTM21096-1003-X.X-F(B)W	+3.3	0 - 2.6	0-9
GTM21096-1509-1.0-X.X-F(B)W	+4.0	0 - 2.6	0-9
GTM21096-1509-X.X-F(B)W	+5.0	0 - 2.6	0-13
GTM21096-1506-X.X-F(B)W	+6.0	0 - 2.5	0-15
GTM21096-1509-2.0-X.X-F(B)W	+7.0	0 - 2.0	0-15
GTM21096-1509-1.0-X.X-F(B)W	+8.0	0 - 1.8	0-15
GTM21096-1509-X.X-F(B)W	+9.0	0 - 1.7	0-15
GTM21089-1512-2.0-X.X-F(B)W	+10.0	0 - 1.5	0-15
GTM21089-1512-1.0-X.X-F(B)W	+11.0	0 - 1.3	0-15
GTM21096-1512-X.X-X.X-F(B)W	+12.0	0 - 1.25	0-15
GTM21096-1815-2.0-X.X-F(B)W	+13.0	0 - 1.15	0-15
GTM21096-1815-1.2-X.X-F(B)W	+13.8	0 - 1.09	0-15
GTM21096-1815-1.0-X.X-F(B)W	+14.0	0 - 1.07	0-15
GTM21096-1815-X.X-F(B)W	+15.0	0 - 1.2	0-18
GTM21096-1818-2.0-X.X-F(B)W	+16.0	0 - 1.2	0-18
GTM21096-1818-1.0-X.X-F(B)W	+17.0	0 - 1.0	0-18
GTM21096-1818-X.X-F(B)W	+18.0	0 - 1.0	0-18
GTM21096-1824-5.0-X.X-F(B)W	+19.0	0 - 0.95	0-18
GTM21096-1824-4.0-X.X-F(B)W	+20.0	0 - 0.90	0-18
GTM21096-1824-X.X-F(B)W	+24.0	0 - 1.0	0-18
GTM21096-1948-20.4-X.X-F(B)W (C-TUV-US ONLY)	+27.6	0 - 0.65	0-18
GTM21096-1940-18.0-X.X-F(B)W (C-TUV-US ONLY)	+30.0	0 - 0.6	0-18
GTM21096-1948-12.0X.X-F(B)W (C-TUV-US ONLY)	+36.0	0 - 0.5	0-19
GTM21096-1948-X.X-F(B)W (C-TUV-US ONLY)	+48.0	0 - 0.4	0-19

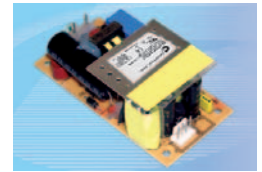




ISO 9001:2000  
REGISTERED



**0-19 Watts, Switchmode, Single Output, Family (1.7"x3.3")  
Open Frame & PCB Mount, Universal Input, Medical, Class I & II**



Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**MECHANICAL CONFIGURATION**

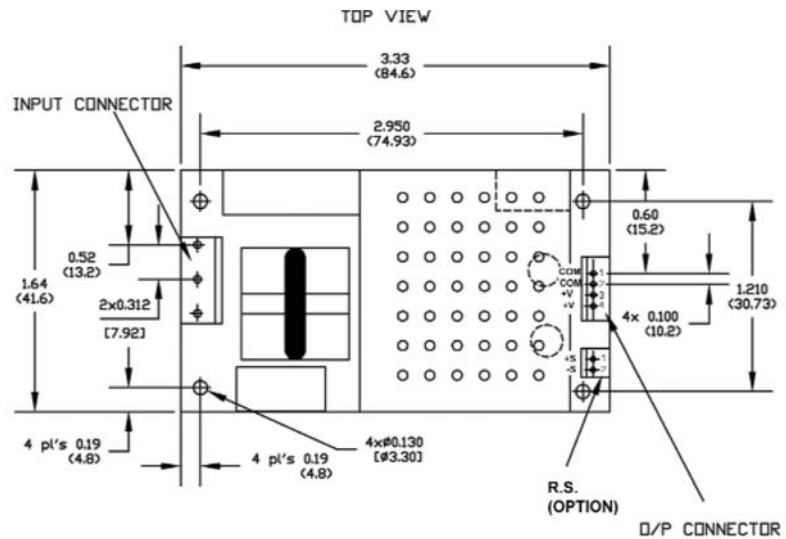
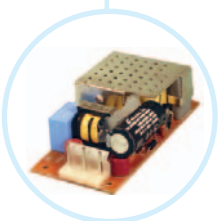
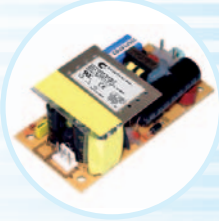
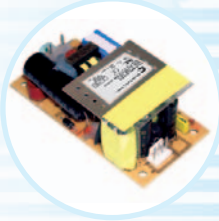
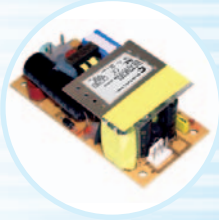
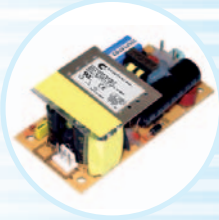
OPEN FRAME SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOW BELOW.  
OPTION: PCB MOUNT, WITH IN / OUT CONNECTORS HEADERS PINS ON PCB SOLDER SIDE.

**OUTPUT CONNECTOR:**

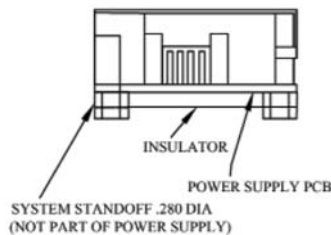
OPEN FRAME: 4 PIN STRAIGHT SQUARE PIN FRICTION LOCK HEADER, MOLEX: 22-28-0040 UL 94V-0 RATED NYLON HOUSING; .100 (2.54) BETWEEN CONDUCTORS, .025(0.64) SQUARE PINS, TIN PLATED, HEADER MATCH WITH MOLEX # 2695 CONNECTORS OR EQUIVALENT.

PCB MOUNT: 4 PINS STRAIGHT SQUARE NON-LOCKING HEADER WITH .100(2.54) BETWEEN CONDUCTORS, .025(0.64) SQUARE PINS, TIN MATED UL 94V-0 RATED NYLON HOUSING, MOLEX 22-03-2041, SYSTEM BOARD SOLDERED.

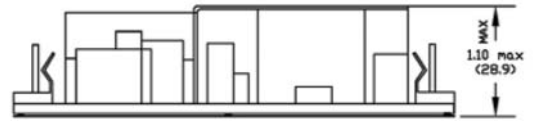
REMOTE SENSE (OPTION): 2 PINS STRAIGHT HEADER WITH LOCKING RAMP, WITH UL 94V-0 RATED NYLON BASE, .100(2.54) PITCH BETWEEN CONDUCTORS, .025 (0.64) SQUARE PINS, TIN PLATED MOLEX: 22- 28-0020, HEADER MATES WITH MOLEX # 2695 CONNECTOR OR EQUIVALENT.



**FRONT VIEW**



**SIDE VIEW**



**CLASS I OR II INPUT CONFIGURATION:**

OPEN FRAME STRAIGHT SQUARE PIN LOCKING HEADERS, WITH .312(7.92) BETWEEN CONDUCTORS, .045 (1.14) SQUARE PINS, TIN PLATED UL 94V-0 RATED NYLON HOUSING, MOLEX: 09-65-2038 (3 CIRCUITS, WITH 1 PIN REMOVED FOR CLASS II). HEADER MATES WITH MOLEX NO. 2139 CONNECTOR OR EQUIVALENTS.

**PCB MOUNT:**

STRAIGHT SQUARE PIN NON-LOCKING HEADER, WITH .312 (7.92) BETWEEN CONDUCTORS, .045(1.14) SQUARE PINS, TIN PLATED UL 94V-0 RATED NYLON HOUSING, MOLEX: 09-67-4031 (3 CIRCUITS, WITH 1 PIN REMOVED OR CLASS II), SYSTEM BOARD SOLDERED.





ISO 9001:2000  
REGISTERED

**0-20 Watts , Desktop Universal Input, ITE  
Dual Output Switchmode Supply**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

INDOOR USE ONLY



**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**

90 VAC TO 264 VAC

**INPUT CURRENT:**

< 1.0 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**

47 HZ - 63 HZ

**OUTPUT POWER (RATED):**

15 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**

≤ 1% TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**

± 5 % FOR MAIN OUTPUT, +5% FOR SECOND AND

± 10% FOR THIRD OUTPUT ( 10% MIN. LOAD ON MAIN OUTPUT)

**TURN ON/ TURN OFF OVERSHOOT:**

4% MAX 500 uS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**

1 SEC MAX

**HOLD-UP TIME:**

16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

**INRUSH CURRENT:**

20 A MAX AT COLD START FOR N.A. (40A FOR EURO)

**EFFICIENCY:**

75 % TYPICAL

**SWITCHING FREQUENCY:**

100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**

VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE FOR  
MAIN OUTPUT

**OVER-CURRENT / SHORT CIRCUIT:**

1.1 - 1.3 IO HICCUP WITH AUTO RECOVERY

**OTHER PROTECTION:**

INPUT FUSING

**SAFETY APPROVALS:**

UL 60950 / 1950, CUL T 22.2 # 234, 950, TUV TO EN 60950,

CE CLASS I, PSE TO J60950

**DIELECTRIC WITHSTAND VOLTAGE:**

1500VAC PRIMARY-SECONDARY;1500 VAC PRIMARY- GROUND

**LEAKAGE CURRENT:**

3.5 mA MAX

**LINE SURGE:**

EN 61000-4-5 LEVEL 4

**EMI:**

COMPLIES WITH EN55022, CLASS B AND FCC PART 15  
CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH  
CONDUCTED AND RADIATED

**CE MARK:**

TESTED TO COMPLY WITH EN61000-3-2, EN61000-3-3 AND  
EN50082-1 INCLUDING EN61000-4-2, EN61000-4-3,  
EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11  
LEVEL 4, UNIT IS ELIGIBLE FOR CE MARK

**MTBF:**

SHALL BE 50,000 HOURS OR GREATER AT 25°C AMBIENT  
TEMPERATURE

**OPERATING TEMPERATURE:**

0° C TO 40° C

**STORAGE TEMPERATURE:**

-40° C TO 80° C

**HUMIDITY:**

0% TO 90% RELATIVE HUMIDITY

**NOTES:**

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.



**OUTPUT VOLTAGE / CURRENT:**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-4202D-2A	+ 5	2.5	0 - 20
	+ 12	0.5	
GT-4202D-2	+ 5	2.5	0 - 20
	+ 12	0.8	
GT-4202D-1A	+ 5	1.5	0 - 20
	+ 12	1.5	

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GT-4202D SERIES-20W

### 0-20 Watts, Desktop Universal Input, ITE Dual Output Switchmode Supply

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

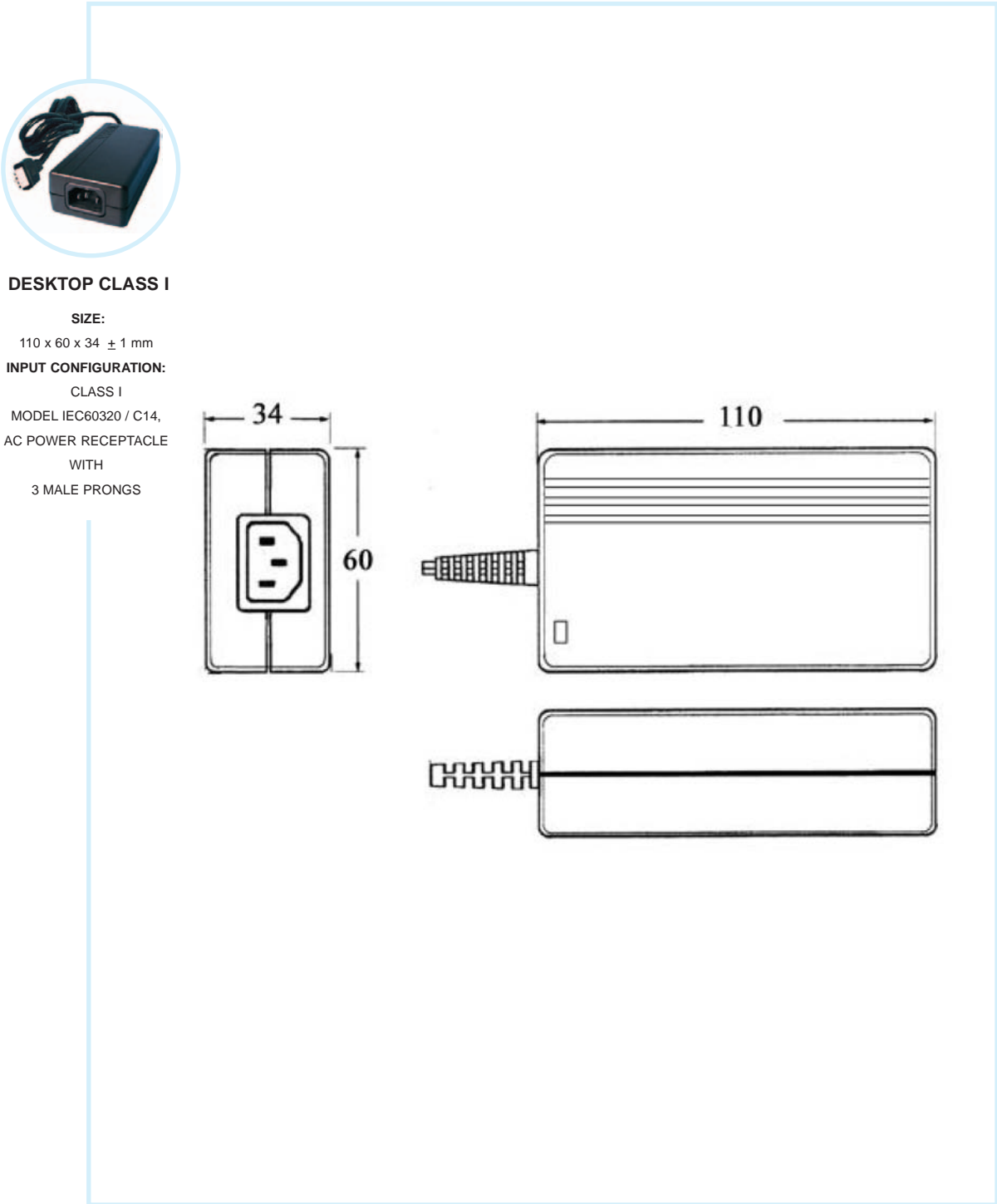


 INDOOR USE ONLY



#### ENCLOSURES

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, COLOR BLACK, CUSTOMER SPECIFIED COLOR AVAILABLE UPON REQUEST.



#### DESKTOP CLASS I

**SIZE:**

110 x 60 x 34 ± 1 mm

**INPUT CONFIGURATION:**

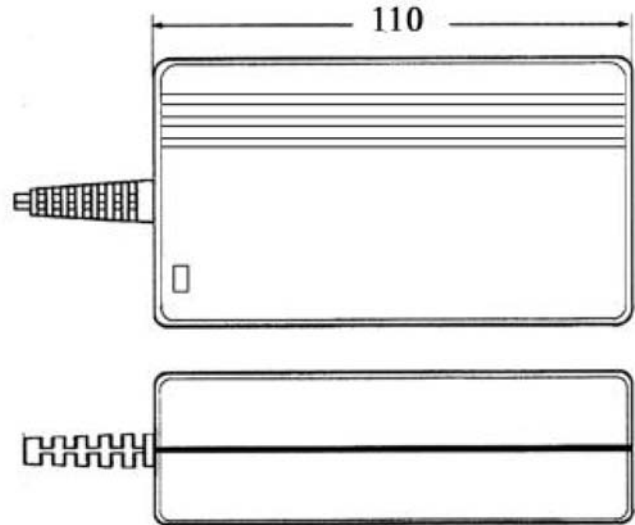
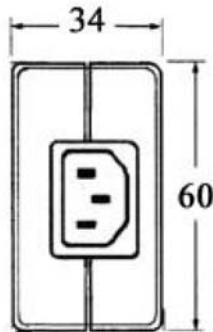
CLASS I

MODEL IEC60320 / C14,

AC POWER RECEPTACLE

WITH

3 MALE PRONGS



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

**0-20 Watts, Desktop Universal Input, ITE  
Triple Output Switchmode Supply**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**

90 VAC TO 264 VAC

**INPUT CURRENT:**

< 1.0 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**

47 HZ - 63 HZ

**OUTPUT CURRENT:**

NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**

15 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**

≤ 1% TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**

± 5 % FOR MAIN OUTPUT, +5% FOR SECOND AND

± 10% FOR THIRD OUTPUT ( 10% MIN. LOAD ON MAIN OUTPUT)

**TURN ON/ TURN OFF OVERTHOOT:**

4% MAX 500 uS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**

1 SEC MAX

**HOLD-UP TIME:**

16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

**INRUSH CURRENT:**

20 A MAX AT COLD START FOR N.A. (40A FOR EURO)

**EFFICIENCY:**

75 % TYPICAL

**SWITCHING FREQUENCY:**

100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**

VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE FOR  
MAIN OUTPUT

**OVER-CURRENT / SHORT CIRCUIT:**

1.1 - 1.3 IO HICCUP WITH AUTO RECOVERY

**OTHER PROTECTION:**

INPUT FUSING

**SAFETY APPROVALS:**

UL 60950, PSE TO J60950, CUL TO 22.2 # 234, 950, TUV TO EN  
60950, CE CLASS I

**DIELECTRIC WITHSTAND VOLTAGE:**

4242VDC (3000VAC) PRIMARY-SECONDARY;

2121VDC (1500VAC) PRIMARY- GROUND

**LEAKAGE CURRENT:**

3.5 mA MAX

**LINE SURGE:**

EN 61000-4-5 LEVEL 4

**EMI:**

COMPLIES WITH EN55022, CLASS B AND FCC PART 15  
CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH  
CONDUCTED AND RADIATED

**CE MARK:**

TESTED TO COMPLY WITH EN61000-3-2, EN61000-3-3 AND  
EN50082-1 INCLUDING EN61000-4-2, EN61000-4-3,  
EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11  
LEVEL 4, UNIT IS ELIGIBLE FOR CE MARK

**MTBF:**

SHALL BE 50,000 HOURS OR GREATER AT 25°C AMBIENT  
TEMPERATURE

**OPERATING TEMPERATURE:**

0° C TO 40° C

**STORAGE TEMPERATURE:**

-40° C TO 80° C

**HUMIDITY:**

0% TO 90% RELATIVE HUMIDITY

**NOTES:**

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.



**OUTPUT VOLTAGE / CURRENT:**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-4203D-1A	+ 5	2.0	0 - 20
	+ 12	0.2	0 - 20
	- 12	0.2	0 - 20
GT-4203D-1	+ 5	2.0	0 - 20
	+ 12	1.0	0 - 20
	- 12	0.2	0 - 20

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GT-4203D SERIES-20W

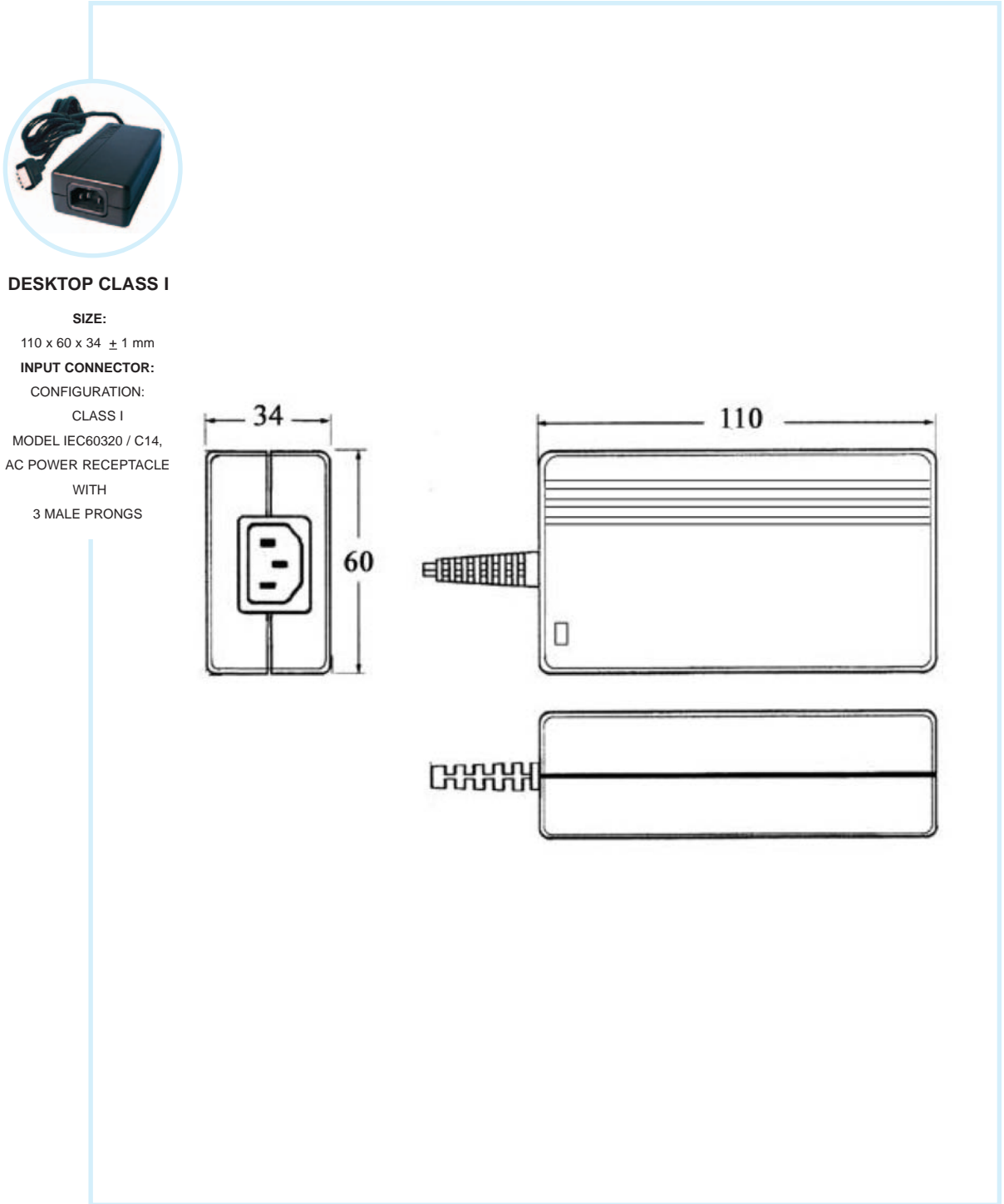
### 0-20 Watts, Desktop Universal Input, ITE Triple Output Switchmode Supply

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



#### ENCLOSURES

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, COLOR BLACK



#### DESKTOP CLASS I

**SIZE:**

110 x 60 x 34 ± 1 mm

**INPUT CONNECTOR:**

CONFIGURATION:

CLASS I

MODEL IEC60320 / C14,

AC POWER RECEPTACLE

WITH

3 MALE PRONGS



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**0-20 Watts, DC/DC Desktop Switchmode Power Supply,  
Single Output Family 11-16 VDC Input, ITE, Class II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**

11-16 VDC

**INPUT CURRENT:**

< 2.7A (R.M.S.)

**OUTPUT CURRENT:**

NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**

23 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**

1% TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**

± 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

**LINE REGULATION:**

± 0.5 % MAX AT FULL LOAD

**TURN ON / TURN OFF OVSERSHOOT:**

4% MAX 500µs MAX RECOVERY TIME FOR 25% STEP LOAD

**INRUSH CURRENT:**

20 A MAX AT COLD START FOR N.A. (40A FOR EURO)

**EFFICIENCY:**

75 % TYPICAL

**SWITCHING FREQUENCY:**

100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**

VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE

**OVER-CURRENT / SHORT CIRCUIT:**

HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

**OTHER PROTECTION:**

INPUT FUSING

**SAFETY APPROVALS (PENDING):**

ITE MODEL: UL60950, CUL TO 22.2 # 950, TUV GS EN60950  
EMI: COMPLIES WITH EN55022 , CLASS B AND  
FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE  
LOAD, BOTH CONDUCTED AND RADIATED  
TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND  
EN50082-1, INCLUDING EN61000-4-2, EN61000-4-3, EN61000-  
4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4.

**MTBF:**

GREATER THAN 50,000 HOURS AT 25°C AMBIENT  
TEMPERATURE

**OPERATING TEMPERATURE:**

0°C TO 40° C

**STORAGE TEMPERATURE:**

-40°C TO 80° C

**HUMIDITY:**

0% TO 90% RELATIVE HUMIDITY

**WEIGHT:**

165 g

**MODEL NUMBER CODE:**

GT-2: INTERNAL CODE; D: ITE MODELDC INPUT

1088: FAMILY ENCLOSURE DESIGNATION;

L(M,H): I/P VOLTAGE (NOM.): L:12V(10~15VDC);

M:24V(18~36VDC); H:48V(36~72VDC)

0803 TO 2010: O/P POWER/VOLTAGE

**NOTES:**

1. -: ITE MODEL OR (M): MEDICAL MODEL
2. EACH OUTPUT CURRENT CAN VARY WITHIN ITS DESIGNATION RANGE., AS LONG AS THE OUTPUT POWER IS NOT EXCEEDED.
3. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
4. X.X.: OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X. VOLTS FROM STANDARD OUTPUT VOLTAGE.



**OUTPUT VOLTAGE / CURRENT:**

**CLASS II MODELS, DOUBLE INSULATED, T2**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTD21088L-0803-T2	+ 3.30	0 - 2.50	0 - 9
GTD21088L-1105-T2	+ 5.0	0 - 2.20	0 - 11
GTD21088L-1505-T2	+ 5.0	0 - 3.0	0 - 15
GTD21088L-1806-T2	+ 6.0	0 - 3.0	0 - 18
GTD21088L-1207-T2	+ 7.50	0 - 1.50	0 - 12
GTD21088L-1907-T2	+ 7.50	0 - 2.50	0 - 19
GTD21088L-2309-T2	+ 9.0	0 - 2.50	0 - 23
GTD21088L-2010-T2	+ 10.0	0 - 2.0	0 - 20

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GTD21088L SERIES-20W

### 0-20 Watts, DC/DC Desktop Switchmode Power Supply, Single Output Family 11-16 VDC Input, ITE, Class II

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



#### ENCLOSURE: DESKTOP, DUAL CORD

HOUSING: HIGH IMPACT PLASTIC, 94VO POLYCARBONATE, NON-VENTED, COLOR BLACK

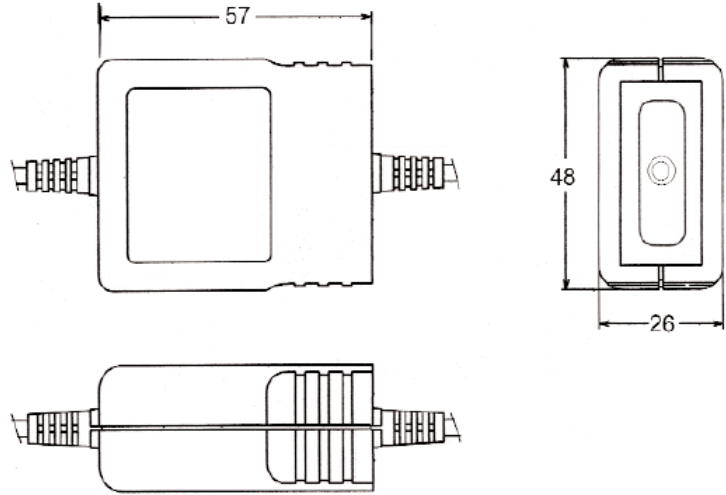


#### SIZE:

57 x 48 x 26 + 1mm

#### INPUT CONNECTOR:

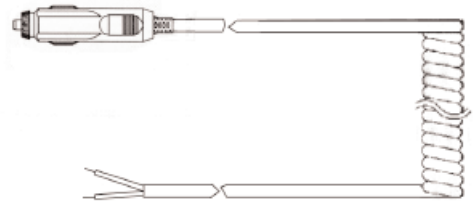
2 CONDUCTOR, 18AWG STRANDED  
WIRE, FLAT UL VW-1 RATED UL  
2464 CORD TYPE, COLOR BLACK,  
LENGTH OF CORD: 1830 + 50mm.  
CORD IS MEASURED FROM THE  
HOUSING TO THE END OF  
OVERMOLD OF THE CONNECTOR.  
CABLE MARKED WITH WIRE  
GAUGE, AND ALL APPLICABLE  
RATING AND SAFETY APPROVALS.



#### INPUT CONNECTOR:

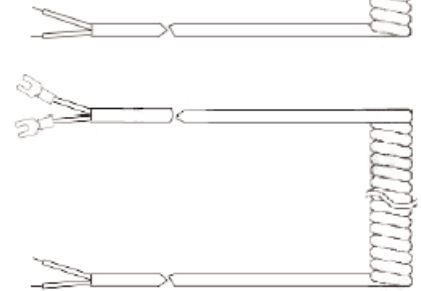
##### OPTION # 1:

CAR MALE CIGARETTE LIGHTER DC  
POWER PLUG (+,-) TIP POSITIVE WITH  
5A/125V SLO-BLO FUSE



##### OPTION # 2:

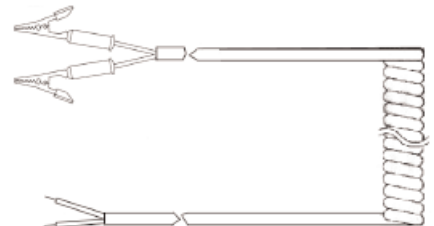
SPADE TONGUE TERMINAL 0.25" FAST  
ON SOFT INSULATION TYPE



#### INPUT CONNECTOR:

##### OPTION # 3:

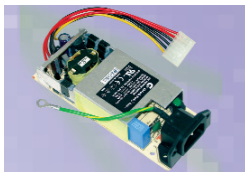
ALLIGATOR CLIPS



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**0-22 Watts, Open Frame, Universal Input, ITE, Dual Output, Switchmode Power Supply**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

**ELECTRICAL SPECIFICATIONS:**

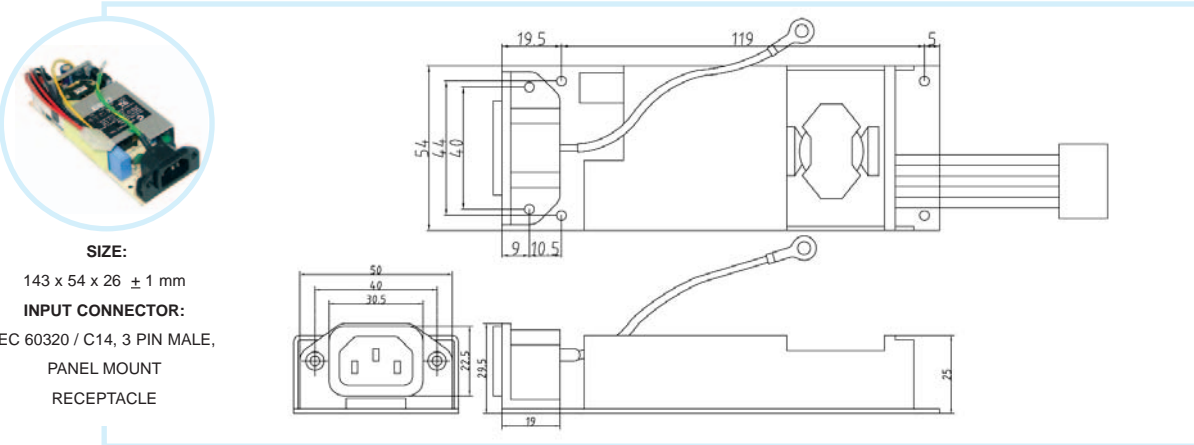
- INPUT VOLTAGE:**  
90 VAC TO 264 VAC
  - INPUT CURRENT:**  
≤ 0.5 A RMS AT 90 VAC INPUT
  - INPUT FREQUENCY:**  
47 HZ - 63 HZ
  - OUTPUT CURRENT:**  
± 3.3 VDC @ 6.0A; +5VDC@0.5A
  - OUTPUT POWER (RATED):**  
22.3 WATTS MAX
  - OUTPUT RIPPLE (PEAK TO PEAK):**  
1% OF OUTPUT VOLTAGE TYPICAL
  - OUTPUT REGULATION (LINE/LOAD):**  
+ 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR
  - LINE REGULATION:**  
± 0.5 % MAX AT FULL LOAD
  - TURN ON/ TURN OFF OVERSHOOT:**  
4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD
  - TURN-ON DELAY:**  
1 SEC MAX
  - HOLD-UP TIME:**  
16 m SEC MIN AT NOMINAL INPUT AND FULL LOAD
  - INRUSH CURRENT:**  
20 A MAX AT COLD START FOR N.A. (40A FOR EURO)
  - EFFICIENCY:**  
75 % TYPICAL
  - SWITCHING FREQUENCY:**  
100 KHZ TYPICAL
  - OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE
- OUTPUT VOLTAGE / CURRENT:**

- OVER-CURRENT / SHORT CIRCUIT:**  
CONSTANT CURRENT AT 110% TO 130% OF NOMINAL LOAD
- SHORT CIRCUIT:**  
MOMENTARY OUTPUT SHORT CIRCUIT PROTECTED
- OTHER PROTECTION:**  
INPUT FUSING
- SAFETY APPROVALS:**  
UR TO UL 60950, C-UR TO 22.2 # 950 CLASS II W/FUNCTIONAL GROUND, CE CLASS I
- DIELECTRIC WITHSTAND VOLTAGE:**  
5656 VAC PRIMARY-SECONDARY; 2121 VAC, PRIMARY- GROUND
- LEAKAGE CURRENT:**  
≤ 3.5 mA
- LINE SURGE:**  
EN 61000-4-5 LEVEL 4
- EMI:**  
COMPLIES WITH EN55022 , CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED
- CE MARK:**  
TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.
- MTBF:**  
GREATER THAN 50,000 HOURS AT 25° C AMBIENT TEMP.
- OPERATING TEMPERATURE:**  
0° C TO 40° C
- STORAGE TEMPERATURE:**  
-40° C TO 80° C
- HUMIDITY:**  
0% TO 90% RELATIVE HUMIDITY

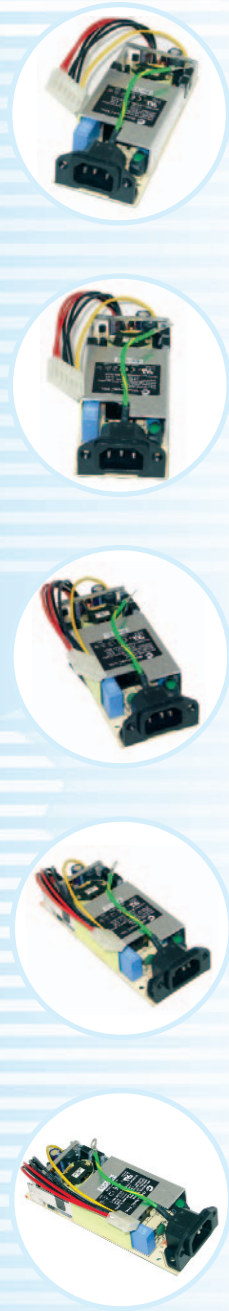
MODEL NUMBER	DUAL OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-22038	+5.0	0.5	0 - 22.3
	+3.3	0.6	

**MECHANICAL DRAWINGS**

- CONFIGURATION:** OPEN FRAME SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOWN.
- OUTPUT HARNESS:** CONDUCTOR, 24 AWG STRANDED WIRE, FLAT UL 1007 CORD TYPE, COLOR BLACK, LENGTH OF CORD: 1830 + 50 mm. CORD IS MEASURED FROM THE PCB TO THE END OF THE CONNECTOR. CABLE IS TO BE MARKED WITH WIRE GAUGE, AND ALL APPLICABLE RATING AND SAFETY APPROVALS.
- OUTPUT CONNECTOR:** FEMALE 3.96 mm PITCH, MOLEX 3961, 6 CIRCUIT, OR EQUIVALENT.



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
REGISTERED

**24 Watts, Switchmode Power Supply, Single Output,  
Family, Input, ITE, 11-32VDC**



Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**

11-32 VDC

**INPUT CURRENT:**

<2 A (R.M.S.) MAX

**OUTPUT CURRENT:**

NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**

24 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**

1% TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**

± 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

**LINE REGULATION:**

± 0.5 % MAX AT FULL LOAD

**TURN ON/ TURN OFF OVERTHOOT:**

4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**

1 SEC MAX

**HOLD-UP TIME:**

16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

**EFFICIENCY:**

75 % TYPICAL

**SWITCHING FREQUENCY:**

100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**

VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE

**OVER-CURRENT / SHORT CIRCUIT:**

HICCUP WITH AUTO RECOVERY

TO 1.1 - 1.3 IO

**OTHER PROTECTION:**

INPUT FUSING

**SAFETY APPROVALS:**

ITE MODEL: UL60950, CUL TO 22.2# 950, TUV TI EN60950, CE CLASS I & II

**DIELECTRIC WITHSTAND VOLTAGE:**

3000VAC PRIMARY-SECONDARY;  
1500 VAC PRIMARY-GROUND

**LEAKAGE CURRENT:**

< 0.25 mA

**LINE SURGE:**

EN 61000-4-5 LEVEL 4

**EMI:**

COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOT CONDUCTED AND RADIATED

**CE MARK:**

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**

GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE

**OPERATING TEMPERATURE:**

0°C TO 40° C

**STORAGE TEMPERATURE:**

-40°C TO 80° C

**HUMIDITY:**

0% TO 90% RELATIVE HUMIDITY

**MODEL NUMBER CODE:**

GT-2: INTERNAL CODE;

D: ITE MODEL DC INPUT

1148: FAMILY ENCLOSURE

DESIGNATION;

1005 TO 2424: O/P POWER/VOLTAGE

**NOTES:**

1. EACH OUTPUT CURRENT CAN VARY WITHIN ITS DESIGNATION RANGE., AS LONG AS THE OUTPUT POWER IS NOT EXCEEDED.
2. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
3. X.X.: OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X. VOLTS FROM STANDARD OUTPUT VOLTAGE.

**OUTPUT VOLTAGE / CURRENT:**

CLASS II MODELS, DOUBLE INSULATED, T2

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTD21148-1005	+ 5.0	0 -2.0	
GTD21148-1505	+ 5.0	0 -3.0	
GTD21148-1507	+ 7.50	0 -2.0	
GTD21148-2412	+ 12.0	0 -2.0	
GTD21148-2416	+ 16.0	0 -1.5	
GTD21148-2418	+ 18.0	0 -1.33	
GTD21148-2424	+ 24.0	0 -1.0	

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
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**24 Watts, Switchmode Power Supply, Single Output,  
Family, Input, ITE, 11-32VDC**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

**ENCLOSURE: DESKTOP, DUAL CORD**

HOUSING: HIGH IMPACT PLASTIC, 94VO POLYCARBONATE, NON-VENTED, COLOR BLACK



**SIZE:**

CLASS II MODELS:  
103 X 50 X 32.5 + 1 mm

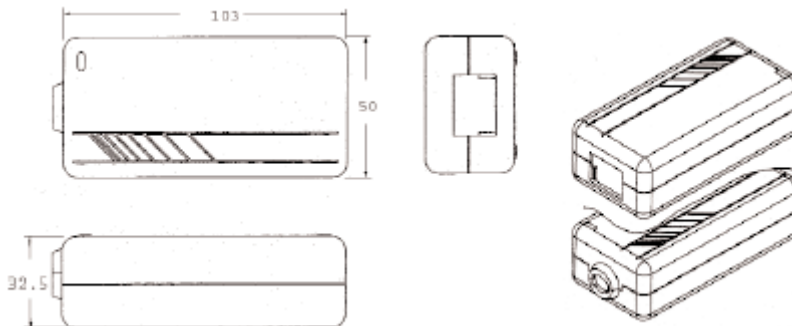
**INPUT CONNECTOR:**

CONDUCTOR, 18AWG (OR 20 AWG)  
STRANDED WIRE, FLAT SPT-1 OR  
UL2468 CORD TYPE, COLOR BLACK,  
LENGTH OF THE CORD:

1830 +100,-0 mm.

CORD IS MEASURED FROM THE  
HOUSING TO THE END OF OVERMOLD  
OF THE CONNECTOR.

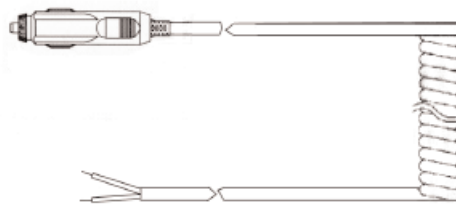
CABLE MARKED WITH WIRE GAUGE,  
AND ALL APPLICABLE RATING AND  
SAFETY APPROVALS.



**INPUT CONNECTOR:**

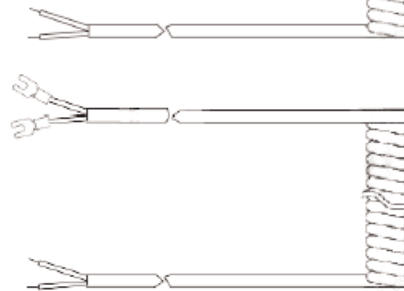
**OPTION # 1:**

CAR MALE CIGARETTE LIGHTER DC  
POWER PLUG (+,-) TIP POSITIVE WITH  
5A/125V SLO-BLO FUSE



**OPTION # 2:**

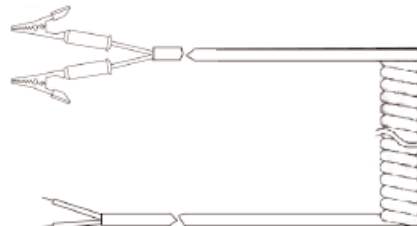
SPADE TONGUE TERMINAL 0.25" FAST  
ON SOFT INSULATION TYPE



**INPUT CONNECTOR:**

**OPTION # 3:**

ALLIGATOR CLIPS



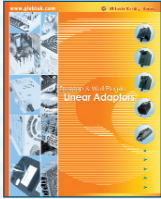
SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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Thank you for your interest in our products. We look forward to speaking with you personally. We can be reached by e-mail at sales@globtek.com, by phone at +1.201.784.1000 or by fax +1.201.784.0111. Please complete as many fields of information as possible.

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Desktop & Wall Plug-In Linear Adaptors



Medical Grade Power Supplies



International Power Cordsets

Name:

Company Name:

Address:

City:  State:  Zip:

Telephone:  Fax:  Email:

**PART NUMBER:** Please describe as much as possible.

**PACKAGE:**  wall-mount  desk-top  open frame  pcb  metal enclosure

**INPUT VOLTAGE:**  120VAC 60Hz  220-240VAC 50Hz  90-130VAC 47-63Hz  90-264VAC 47-63Hz

**INPUT CONNECTION:**  US/Canada Japan  Europe Turret  Europe Shucko  U.K.  Australia

IEC 320 (C14) 3 conductor  IEC 320 (C8) 2 conductor **GROUND REQUIRED:**  yes  no

**OUTPUT VOLTAGE:**  AC  DC  linear  switchmode

Complete as many options as necessary

#1 Output Voltage  #1 Output Current  (A)

#2 Output Voltage  #2 Output Current  (A)

#3 Output Voltage  #3 Output Current  (A)

#4 Output Voltage  #4 Output Current  (A)

**SAFETY APPROVALS:**  UL  CSA or cUL  TUV/GS  JIS (T-Mark)  CE Mark

other, specify

**OUTPUT CONNECTOR:** (See plug options):

**QUANTITY:** Select the production quantities you would like quoted.

1,000  5,000  10,000  25,000  50,000  100,000

OTHER:

**SAMPLES:** Will samples be required for test production?

YES  NO WHEN? (i.e. MM/DD/YY)  QUANTITY?

**PRODUCTION:** When would you take first delivery? (i.e. MM/DD/YY)

**QUOTE QTY'S:**  **TARGET \$**

**APPLICATION:** Complete as many options as possible

USE: In what market will the finished product be used?

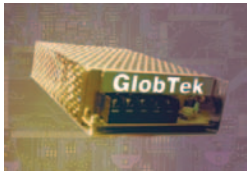
computer hardware  CAD/CAM  office/business  machines  communication

industrial/manufacturing-equipment  medical  avionics space/military  automotive  consumer electronics/appliances

OTHER MARKET:



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## 25 Watts, Switchmode Power Supply, Single Output, Enclosed, Universal Input

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

### ELECTRICAL SPECIFICATIONS:

#### INPUT VOLTAGE:

85 VAC TO 264 VAC

#### INPUT CURRENT:

0.35A @ 230V

#### INPUT FREQUENCY:

47 HZ - 63 HZ

#### OUTPUT CURRENT:

NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

#### OUTPUT POWER (RATED):

25 WATTS MAX

#### OUTPUT RIPPLE (PEAK TO PEAK):

50 mV (P-P) FOR 5V,  
100 mV (P-P) FOR ALL OTHER OUTPUTS

#### ADJUSTABILITY:

+10, -5% OUTPUT

#### OUTPUT REGULATION (LINE):

± 5 % FOR OUTPUT

#### LOAD REGULATION (LINE):

5V MODEL +/-1%, ± 0.5% FOR ALL OTHER OUTPUTS

#### TURN ON/ TURN OFF OVERSHOOT:

4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD

#### TURN-ON DELAY:

1 SEC MAX

#### HOLD-UP TIME:

10 mSEC MIN AT NOMINAL INPUT 115 VAC AND FULL LOAD

#### INRUSH CURRENT:

15 A MAX AT COLD START FOR N.A. (30A FOR EURO)

#### EFFICIENCY:

75 % TYPICAL

#### SWITCHING FREQUENCY:

100 KHZ TYPICAL

#### OVER-VOLTAGE PROTECTION:

VOLTAGE LIMITED LESS 115% ~ 135% OF NOMINAL VOLTAGE  
FOR MAIN OUTPUT

#### OVER-CURRENT / SHORT CIRCUIT:

HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

#### OTHER PROTECTION:

INPUT FUSING

#### SAFETY APPROVALS:

UL1012, UL 60950 / 1950, CUL TO 22.2 # 234, 950,  
TUV TO EN 60950, CE CLASS I

#### DIELECTRIC WITHSTAND VOLTAGE:

4242VDC (3000VAC) PRIMARY-SECONDARY;  
2121VDC (1500 VAC) PRIMARY- GROUND

#### LEAKAGE CURRENT:

≤ 0.75 mA @ 240 VAC

#### LINE SURGE:

EN 61000-4-5 LEVEL 4

#### EMI:

COMPLIES WITH EN55022, 1 CLASS B AND  
FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE  
LOAD, BOTH CONDUCTED AND RADIATED

#### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2, EN61000-3-3 AND  
EN50082-1 INCLUDING EN61000-4-2, EN61000-4-3,  
EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11  
LEVEL 4, UNIT IS ELIGIBLE FOR CE MARK.

#### MTBF:

GREATER THAN 50,000 HOURS AT 25° C AMBIENT  
TEMPERATURE

#### OPERATING TEMPERATURE:

0° C TO 45° C, DERATE LINEARY TO 60% OUTPUT POWER  
AT 60° C

#### STORAGE TEMPERATURE:

-40° C TO 80° C

#### HUMIDITY:

0% TO 90% RELATIVE HUMIDITY

#### WEIGHT:

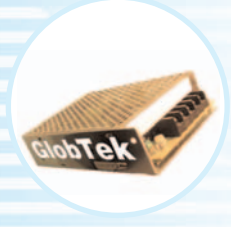
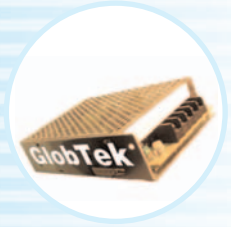
0.37 kg REF

#### VIBRATION:

10-500 Hz 2G 10 MIN/ CYCLE (PERIOD = 60 MINUTES,  
EACH AXIS)

#### NOTES:

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.



### OUTPUT VOLTAGE / CURRENT:

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-25-5	+5 +/-2%	5	0 - 25
GT-25-12	+12 +/-1%	2.1	0 - 25
GT-25-15	+15 +/-1%	1.7	0 - 25
GT-25-24	+24 +/-1%	1.1	0 - 25

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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# GT-25 SERIES-25W

## 25 Watts, Switchmode Power Supply, Single Output Enclosed, Universal Input

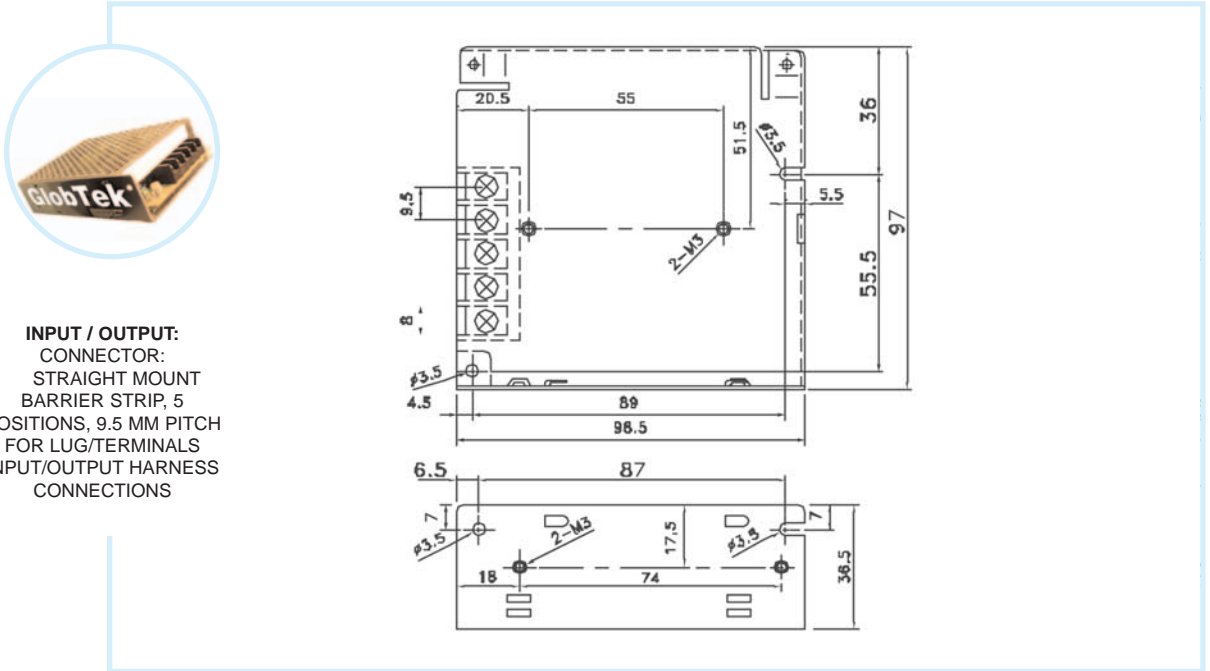
Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



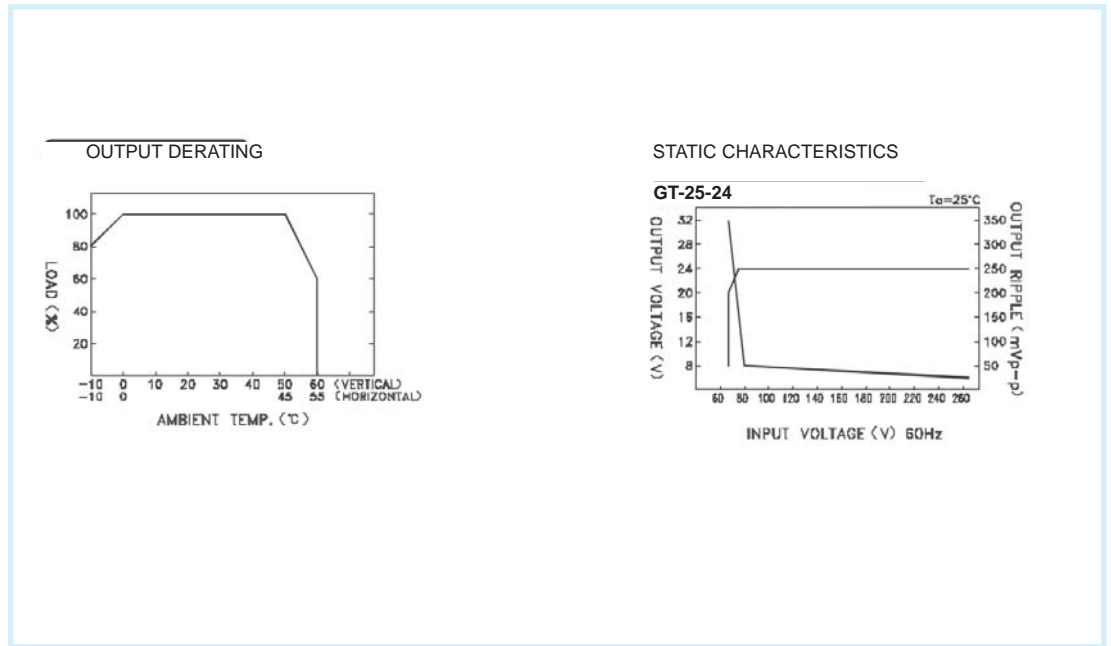
### ENCLOSURE

#### CONFIGURATION:

ENCLOSED SWITCHING POWER SUPPLY, AL. ALLOY 3003 OR EQUIVALENT, GOLD IRRIDITE, CHEM. TREATED FINISH,, CHASSIS: "U" CHANNEL, WITH (5) MOUNTING METRIC INSERT M3, AS SHOWN BELOW: (2) BOTTOM; (3) RIGHT SIDE. COVER: "L" SHAPE WITH HOLES SCREENED PATTERN FOR NATURAL CONVECTION COOLING THERMAL TRANSFER.



### CHARTS



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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**0-30 Watts, Desktop Power Supply, Single Output,  
Family, Input, ITE, Class I & II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
≤ 0.5 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
30 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
1% OF OUTPUT VOLTAGE TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**  
+/- 5% MEASURED AT THE OUTPUT CONNECTOR

**LINE REGULATION:**  
+/- 1% TYPICAL MEASURED AT FULL LOAD

**TURN ON/ TURN OFF OVERSHOOT:**  
5% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC TYPICAL

**HOLD-UP TIME:**  
10mS TYPICAL AT NOMINAL INPUT VOLTAGE AND FULL LOAD

**INRUSH CURRENT:**  
30A TYPICAL AT 115Vac INPUT AND 40A TYPICAL AT 230Vac INPUT

**EFFICIENCY:**  
75% TYPICAL AT NOMINAL INPUT AND FULL LOAD

**SWITCHING FREQUENCY:**  
100KHZ TYPICAL, VARIES WITH LINE AND LOAD

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED TO LESS THAN 130%, CROWBAR METHOD

**OVER-CURRENT / SHORT CIRCUIT:**  
MOMENTARY SHORT CIRCUIT PROTECTED, OUTPUT WILL AUTORECOVER UPON REMOVAL OF SHORT

**OTHER PROTECTION:**  
INPUT FUSING; LINE FUSING

**SAFETY APPROVALS:**

ITE MODEL: UL 60950, CUL TO 22.2# 950, NEMKO, GS, SEMKO, FIMKO, DEMKO TO EN60950, CCC MARK TO GB4943-2001, GB9254-1998, GB17625.1-2003 (GT-21089-T3 FROM 5-18V OUTPUT), PSE TO J60950, C-TICK, POLAND PCBC TO EN60950, DEMKO TO EN60950, ARGENTINA S-MARK TO en 60950, CB REPORT, CE CLASS I & II

**DIELECTRIC WITHSTAND VOLTAGE:**

4242VDC FROM PRIMARY TO SECONDARY

**LEAKAGE CURRENT:**

< 300uA at 264Vac INPUT VOLTAGE

**LINE SURGE:**

EN 61000-4-5 LEVEL 4

**EMI:**

COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED EMI

**CE MARK:**

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3 AND EN50082-1 INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 LEVEL 4.

**MTBF:**

GREATER THAN 50,000 HOURS AT 25C AMBIENT TEMP. NOMINAL LINE AND FULL LOAD PER MIL-217 STANDARD

**OPERATING TEMPERATURE:**

OPERATING TEMPERATURE: 0°C TO 40°C AMBIENT TEMPERATURE

**STORAGE TEMPERATURE:**

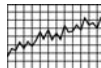
-10°C TO 80°C

**HUMIDITY:**

0% TO 90% RELATIVE HUMIDITY

**NOTES:**

1. EACH OUTPUT CURRENT MAY VARY WITHIN ITS DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
2. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 5V UP TO 24V IN 0.1V INCREMENTS.
3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "D" FOR ELECTRICAL PERFORMANCE CURVES

**OUTPUT VOLTAGE / CURRENT:**

CLASS II MODELS, DOUBLE INSULATED, T2

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21148-2005-T2	+ 5.0	0 - 4.0	0 - 20
GT-21148-2506-X.X-T2	+ 6.0	0 - 4.2	0 - 25
GT-21148-2709-2.0-T2	+ 7.0	0 - 3.7	0 - 26
GT-21148-2709-1.0-T2	+ 8.0	0 - 3.25	0 - 26
GT-21148-2709-X.X-T2	+ 9.0	0 - 3.0	0 - 27
GT-21148-3012-2.0-T2	+ 10.0	0 - 3.0	0 - 30
GT-21148-3012-1.0-T2	+ 11.0	0 - 2.7	0 - 30
GT-21148-3012-X.X-T2	+ 12.0	0 - 2.5	0 - 30
GT-21148-3015-2.0-T2	+ 13.0	0 - 2.3	0 - 30
GT-21148-3015--1.2-T2	+ 13.8	0 - 2.1	0 - 30
GT-21148-3015-1.0-T2	+ 14.0	0 - 2.1	0 - 30
GT-21148-3015-X.X-T2	+ 15.0	0 - 2.0	0 - 30
GT-21148-3018-2.0-T2	+ 16.0	0 - 1.9	0 - 30
GT-21148-3018-1.0-T2	+ 17.0	0 - 1.8	0 - 30
GT-21148-3018-X.X-T2	+ 18.0	0 - 1.7	0 - 30
GT-21148-3024-5.0-T2	+ 19.0	0 - 1.6	0 - 30
GT-21148-3024-4.0-T2	+ 20.0	0 - 1.5	0 - 30
GT-21148-3024-X.X-T2	+ 24.0	0 - 1.25	0 - 30





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## GT-21148 SERIES-30W

### 0-30 Watts, Desktop Power Supply, Single Output, Family, Input, ITE, Class I & II



Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

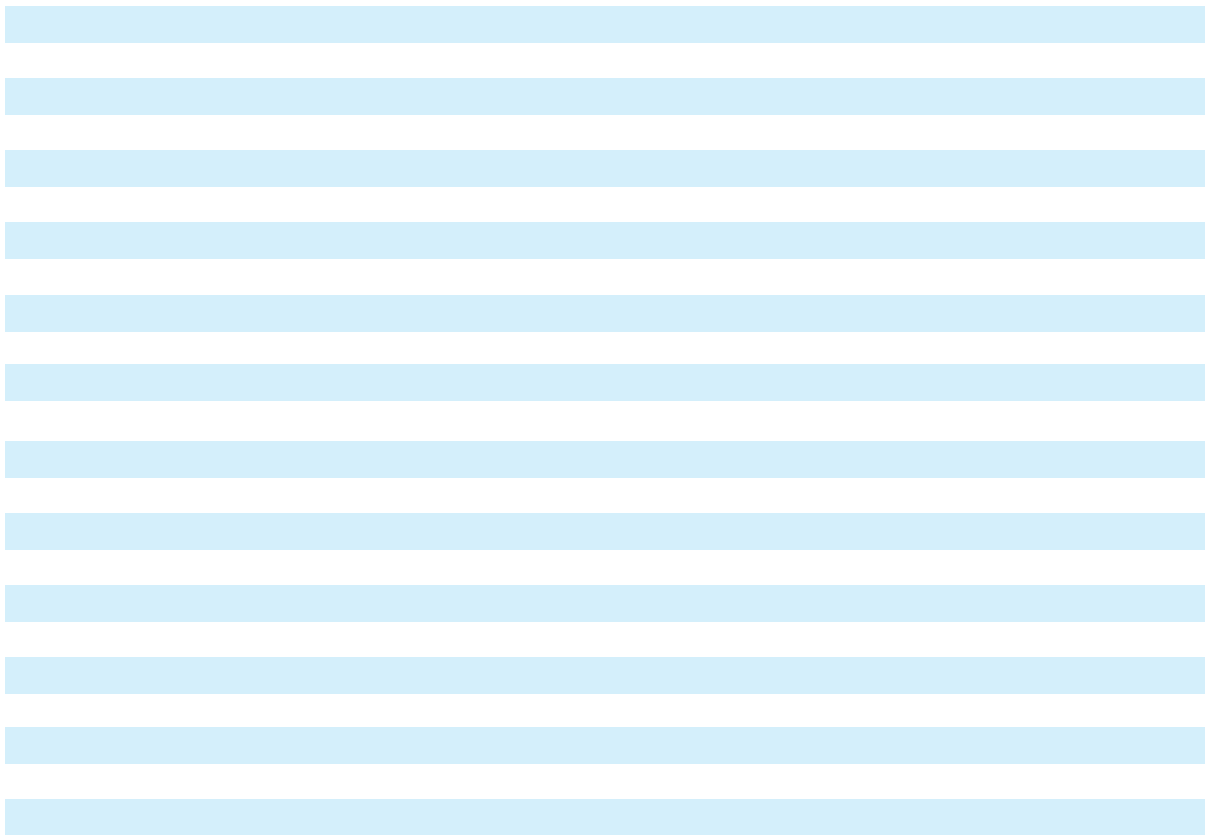
 INDOOR USE ONLY



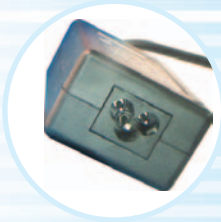
#### OUTPUT VOLTAGE / CURRENT:

CLASS I MODELS, FUNCTIONAL GROUND, T3 AND CLASS II, DOUBLE INSULATED, T2.

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21148-2005-T3	+ 5.0	0 - 4.0	0 - 20
GT-21148-2506-X.X-T3	+ 6.0	0 - 4.2	0 - 25
GT-21148-2709-2.0-T3	+ 7.0	0 - 3.7	0 - 26
GT-21148-2709-1.0-T3	+ 8.0	0 - 3.25	0 - 26
GT-21148-2709-X.X-T3	+ 9.0	0 - 3.0	0 - 27
GT-21148-3012-2.0-T3	+ 10.0	0 - 3.0	0 - 30
GT-21148-3012-1.0-T3	+ 11.0	0 - 2.7	0 - 30
GT-21148-3012-X.X-T3	+ 12.0	0 - 2.5	0 - 30
GT-21148-3015-2.0-T3	+ 13.0	0 - 2.3	0 - 30
GT-21148-3015-1.2-T3	+ 13.8	0 - 2.1	0 - 30
GT-21148-3015-1.0-T3	+ 14.0	0 - 2.1	0 - 30
GT-21148-3015-X.X-T3	+ 15.0	0 - 2.0	0 - 30
GT-21148-3018-2.0-T3	+ 16.0	0 - 1.9	0 - 30
GT-21148-3018-1.0-T3	+ 17.0	0 - 1.8	0 - 30
GT-21148-3018-X.X-T3	+ 18.0	0 - 1.7	0 - 30
GT-21148-3024-5.0-T3	+ 19.0	0 - 1.6	0 - 30
GT-21148-3024-4.0-T3	+ 20.0	0 - 1.5	0 - 30
GT-21148-3024-X.X-T3	+ 24.0	0 - 1.25	0 - 30



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





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**0-30 Watts, Desktop Power Supply, Single Output,  
Family, Input, ITE, Class I & II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

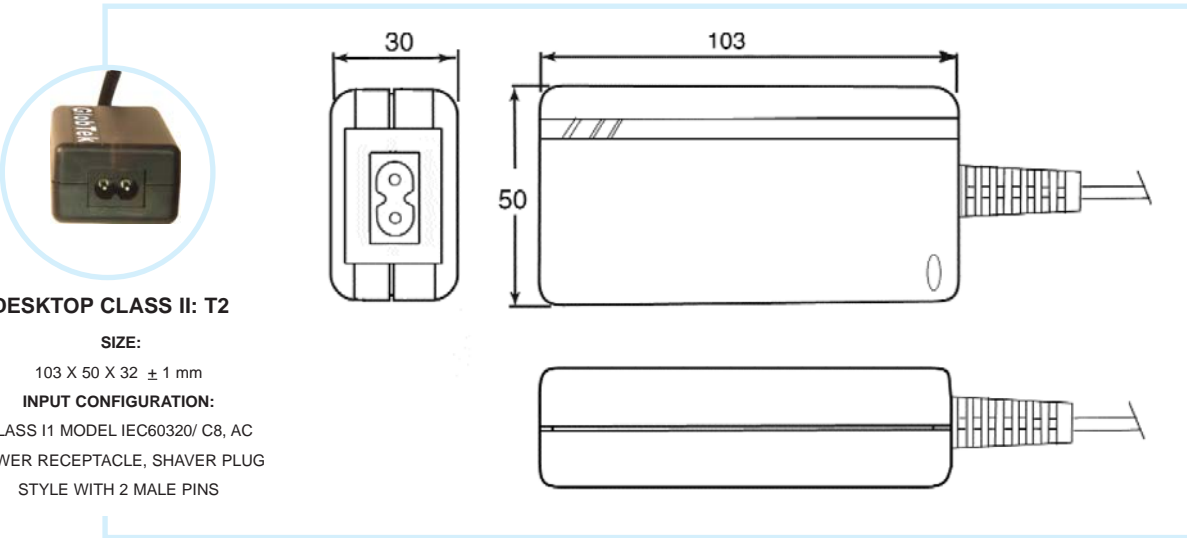


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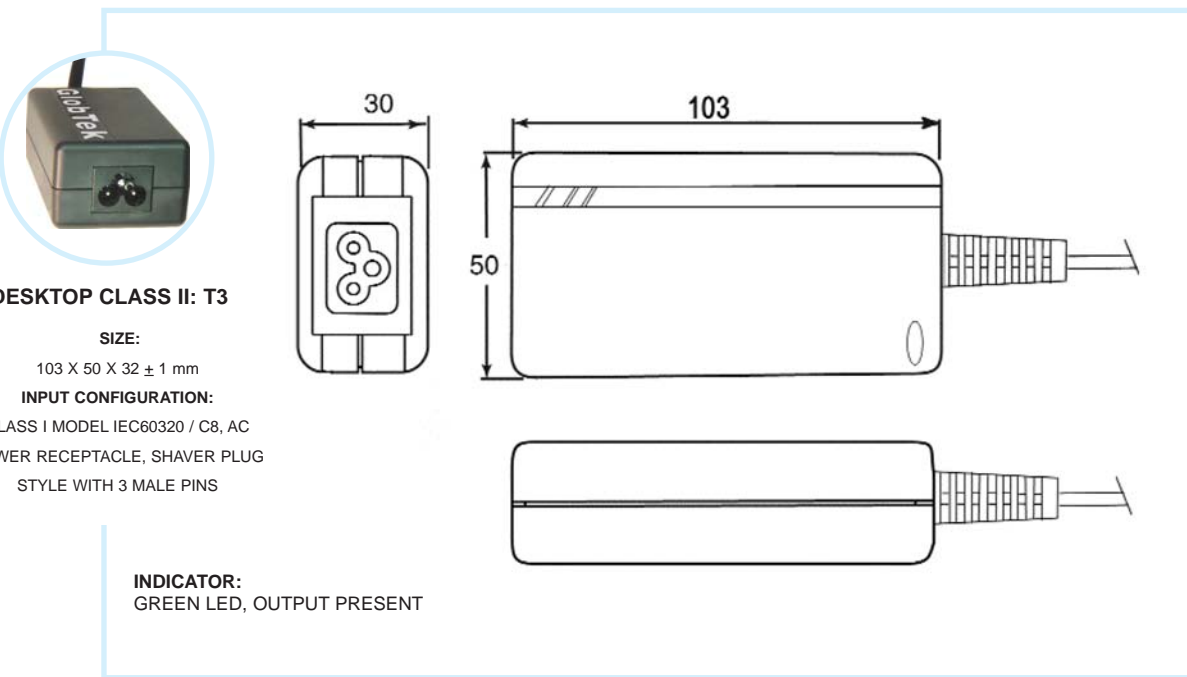
**ENCLOSURES**

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK, CUSTOMER SPECIFIED COLOR AVAILABLE UPON REQUEST.

**INDICATOR:**  
GREEN LED, OUTPUT PRESENT



HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
REGISTERED

## GT-21097 SERIES-50W

### 0-50 Watts, DeskTop, Switchmode Universal Input, Single Output Family, ITE

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 56)

 INDOOR USE ONLY



#### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
< 1.6 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
50 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
1% OF OUTPUT VOLTAGE , PEAK TO PEAK, TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**  
+/-5% MEASURED AT THE OUTPUT CONNECTOR

**LINE REGULATION:**  
+/- 1% TYPICAL MEASURED AT FULL LOAD

**TURN ON/ TURN OFF OVERTHOOT:**  
5% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC TYPICAL

**HOLD-UP TIME:**  
10mS TYPICAL AT NOMINAL INPUT VOLTAGE AND FULL LOAD

**INRUSH CURRENT:**  
20A MAX COLD START FOR 115VAC

**EFFICIENCY:**  
75% TYPICAL AT NOMINAL INPUT AND FULL LOAD

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED TO LESS THAN 130%, CROWBAR METHOD

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP MODE WITH AUTO-RECOVERY (110 - 130% OF RATED LOAD), HICCUP MODE OUTPUT WILL AUTORECOVER UPON REMOVAL OF SHORT

**SAFETY APPROVALS:**  
UL 60950 (THIRD EDITION), CUL TO 22.2 NO. 60950, TUV TO EN60950, PSE TO J60950, CHINESE CCC MARK TO GB4943-2 001, GB9254-1998, GB17625.1-2003; C-TICK TO AS/NZ 60950, CB REPORT

#### OTHER PROTECTION:

INPUT LINE FUSING  
**DIELECTRIC WITHSTAND VOLTAGE:**  
4242VDC (3000VAC) FROM PRIMARY TO SECONDARY  
2121VDC (1500VAC) FROM PRIMARY TO SECONDARY

**LEAKAGE CURRENT:**  
<500uA at 264Vac INPUT VOLTAGE

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

**EMI:**  
COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED EMI.

**CE MARK:**  
EN55011, Group 1, Class B, EN55022 Class B, EN55011, Group 1, Class B; EN55024 / EN60601-1-2 / IEC 61000-4-3:2002; EN55024 / EN60601-1-2 / IEC 61000-4-6:2001 ; EN55024 / EN60601-1-2 / IEC 61000-4-8:2001; EN55024 / EN60601-1-2 / IEC 61000-4-11:2001; EN55024 / EN60601-1-2 / IEC 61000-4-4:2001; EN55024 / EN60601-1-2 / IEC 61000-4-2:2001; EN55024 / EN60601-1-2 / IEC 61000-4-5:2001; EN55024 / EN 61000-3-3 A1: 2001 / EN 61000-3-3 A1: 2001; EN55024 / EN 61000-3-2:2001 / EN 61000-3-2:2001. UNIT IS ELIGIBLE FOR CE MARK.

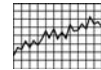
**MTBF:**  
GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE NOMINAL LINE AND FULL LOAD (MIL-217 STD)

**OPERATING TEMPERATURE:**  
0°C TO 40°C AMBIENT TEMPERATURE

**STORAGE TEMPERATURE:**  
-40° C TO 80° C

**HUMIDITY:**  
0% TO 90% RELATIVE HUMIDITY

- NOTES:**
1. -: ITE MODEL OR (M): MEDICAL MODEL
  2. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
  3. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
  4. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "E" FOR ELECTRICAL PERFORMANCE CURVES

#### OUTPUT VOLTAGE / CURRENT:

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21097-2003	+3.3	0 - 6.0	0 - 20
GT-21097-3005-1.0	+4.0	0 - 6.0	0 - 24
GT-21097-3005-X.X	+5.0	0 - 6.0	0 - 30
GT-21097-4509-3.0	+6.0	0 - 5.0	0 - 30
GT-21097-4509-2.0	+7.0	0 - 5.0	0 - 35
GT-21097-4509-1.0	+8.0	0 - 5.0	0 - 40
GT-21097-4509-X.X	+9.0	0 - 5.0	0 - 45
GT-21097-5012-2.0	+10.0	0 - 5.0	0 - 50
GT-21097-5012-1.0	+11.0	0 - 4.5	0 - 50
GT-21097-5012-X.X	+12.0	0 - 4.17	0 - 50
GT-21097-5015-2.0	+13.0	0 - 3.8	0 - 50
GT-21097-5015-1.2	+13.8	0 - 3.6	0 - 50
GT-21097-5015-1.0	+14.0	0 - 3.5	0 - 50
GT-21097-5015-X.X	+15.0	0 - 3.3	0 - 50
GT-21097-5018-X.X	+18.0	0 - 2.8	0 - 50
GT-21097-5024-4.0	+20.0	0 - 2.5	0 - 50
GT-21097-5024-X.X	+24.0	0 - 2.1	0 - 50
GT-21097-5048-20.4	+27.6	0 - 1.8	0 - 50
GT-21097-5048-18.0	+30.0	0 - 1.7	0 - 50
GT-21097-5048-12.0	+36.0	0 - 1.4	0 - 50
GT-21097-5048-X.X	+48.0	0 - 1.1	0 - 50





ISO 9001:2000  
REGISTERED



**0-50 Watts, DeskTop, Switchmode Universal Input,  
Single Output Family, ITE**

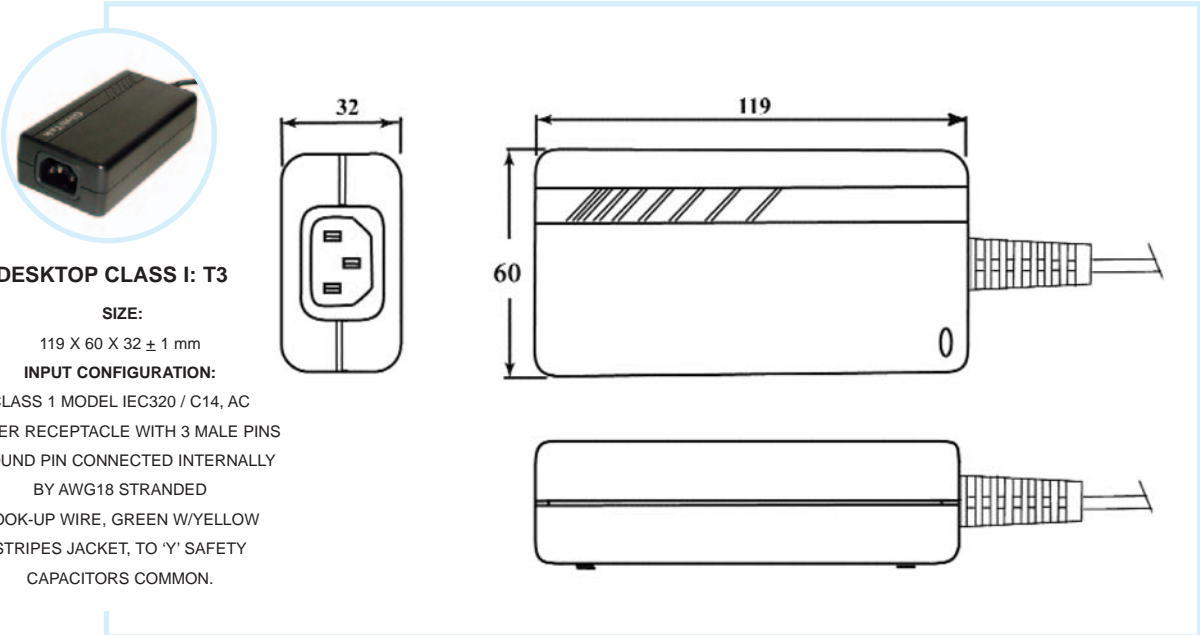
Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 56)



INDOOR USE ONLY

**ENCLOSURES**

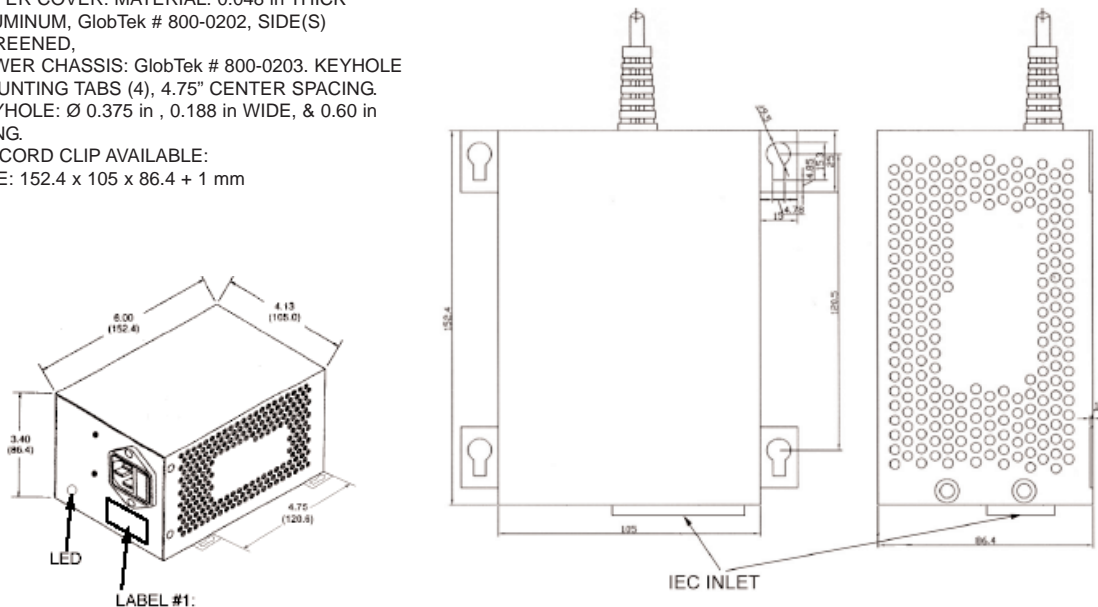
UPPER HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK  
LOWER HOUSING: HIGH IMPACT PLASTIC 94V0 POLYCARBONATE, NON- VENTED, COLOR BLACK



**INDICATOR:**  
GREEN LED, OUTPUT PRESENT

**ALTERNATE ENCLOSURE (SPECIAL ORDER):**

UPPER COVER: MATERIAL: 0.048 in THICK ALUMINUM, GlobTek # 800-0202, SIDE(S) SCREENED,  
LOWER CHASSIS: GlobTek # 800-0203. KEYHOLE MOUNTING TABS (4), 4.75" CENTER SPACING. KEYHOLE: Ø 0.375 in , 0.188 in WIDE, & 0.60 in LONG.  
AC CORD CLIP AVAILABLE:  
SIZE: 152.4 x 105 x 86.4 + 1 mm



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
REGISTERED

## GTM21097 SERIES-50W



### 0-50 Watts, DeskTop, Switchmode Universal Input, Single Output Family, Medical



Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

 INDOOR USE ONLY



#### ELECTRICAL SPECIFICATIONS:

##### INPUT VOLTAGE:

90 VAC TO 264 VAC

##### INPUT CURRENT:

< 1.6 A RMS AT 90 VAC INPUT

##### INPUT FREQUENCY:

47 HZ - 63 HZ

##### OUTPUT CURRENT:

NO MINIMUM LOAD REQUIRED

##### OUTPUT POWER (RATED):

50 WATTS MAX

##### OUTPUT RIPPLE (PEAK TO PEAK):

1% OF OUTPUT VOLTAGE, PEAK TO PEAK, TYPICAL

##### OUTPUT REGULATION (LINE/LOAD):

+/-5% MEASURED AT THE OUTPUT CONNECTOR

##### LINE REGULATION:

+/- 1% TYPICAL MEASURED AT FULL LOAD

##### TURN ON / TURN OFF OVERTHOOT:

5% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25% STEP LOAD

##### TURN-ON DELAY:

1 SEC TYPICAL

##### HOLD-UP TIME:

10mS TYPICAL AT NOMINAL INPUT VOLTAGE AND FULL LOAD

##### INRUSH CURRENT:

20A TYPICAL AT 115Vac INPUT AND 30A TYPICAL AT 230Vac INPUT

##### EFFICIENCY:

75% TYPICAL AT NOMINAL INPUT AND FULL LOAD

##### SWITCHING FREQUENCY:

100 KHZ TYPICAL

##### OVER-VOLTAGE PROTECTION:

VOLTAGE LIMITED TO LESS THAN 130%, CROWBAR METHOD

##### OVER-CURRENT / SHORT CIRCUIT:

HICCUP MODE WITH AUTO-RECOVERY (110 - 130% OF RATED LOAD), HICCUP MODE OUTPUT WILL AUTORECOVER UPON REMOVAL OF SHORT

##### OTHER PROTECTION:

INPUT LINE FUSING

##### SAFETY APPROVALS:

UL 60601.1, CUL TO 22.2 NO. 601.1, TUV TO EN60601.1, PSE TO J60950  
CB REPORT

#### DIELECTRIC WITHSTAND VOLTAGE:

5656VDC (4000VAC) FROM PRIMARY TO GROUND  
2121VDC (1500VAC) FROM PRIMARY TO GROUND

#### LEAKAGE CURRENT:

<500uA at 264Vac INPUT VOLTAGE

#### LINE SURGE:

EN 61000-4-5 LEVEL 4

#### EMI:

EN55011, Group 1, Class B, EN55022 Class B, EN55011, Group 1, Class B; EN55024 / EN60601-1-2 / IEC 61000-4-3:2002; EN55024 / EN60601-1-2 / IEC 61000-4-6:2001; EN55024 / EN60601-1-2 / IEC 61000-4-8:2001; EN55024 / EN60601-1-2 / IEC 61000-4-11:2001; EN55024 / EN60601-1-2 / IEC 61000-4-4:2001; EN55024 / EN60601-1-2 / IEC 61000-4-2:2001; EN55024 / EN60601-1-2 / IEC 61000-4-5:2001; EN55024 / EN 61000-3-3 A1: 2001 / EN 61000-3-3 A1: 2001; EN55024 / EN 61000-3-2:2001 / EN 61000-3-2:2001. UNIT IS ELIGIBLE FOR CE MARK

#### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3 AND EN50082-1 INCLUDING NOMINAL LINE AND FULL LOAD (MIL-217 STD), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 LEVEL 4.

#### MTBF:

GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE NOMINAL LINE AND FULL LOAD (MIL-217 STD)

#### OPERATING TEMPERATURE:

0°C TO 40°C AMBIENT TEMPERATURE

#### STORAGE TEMPERATURE:

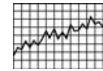
-40° C TO 80° C

#### HUMIDITY:

0% TO 90% RELATIVE HUMIDITY

#### NOTES:

- (M): MEDICAL MODEL
- EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
- SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
- (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "E" FOR ELECTRICAL PERFORMANCE CURVES

#### OUTPUT VOLTAGE / CURRENT:

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM21097-2003	+3.3	0 - 6.0	0 - 20
GTM21097-3005-1.0	+4.0	0 - 6.0	0 - 24
GTM21097-3005-X.X	+5.0	0 - 6.0	0 - 30
GTM21097-4509-3.0	+6.0	0 - 5.0	0 - 30
GTM21097-4509-2.0	+7.0	0 - 5.0	0 - 35
GTM21097-4509-1.0	+8.0	0 - 5.0	0 - 40
GTM21097-4509-X.X	+9.0	0 - 5.0	0 - 45
GTM21097-5012-2.0	+10.0	0 - 5.0	0 - 50
GTM21097-5012-1.0	+11.0	0 - 4.5	0 - 50
GTM21097-5012-X.X	+12.0	0 - 4.17	0 - 50
GTM21097-5015-2.0	+13.0	0 - 3.8	0 - 50
GTM21097-5015-1.2	+13.8	0 - 3.6	0 - 50
GTM21097-5015-1.0	+14.0	0 - 3.5	0 - 50
GTM21097-5015-X.X	+15.0	0 - 3.3	0 - 50
GTM21097-5018-X.X	+18.0	0 - 2.8	0 - 50
GTM21097-5024-4.0	+20.0	0 - 2.5	0 - 50
GTM21097-5024-X.X	+24.0	0 - 2.1	0 - 50
GTM21097-5048-20.4	+27.6	0 - 1.8	0 - 50
GTM21097-5048-18.0	+30.0	0 - 1.7	0 - 50
GT-500148-30	+30.0	0 - 2.0	0 - 60
GTM21097-5048-12.0	+36.0	0 - 1.4	0 - 50
GTM21097-5048-X.X	+48.0	0 - 1.1	0 - 50



ISO 9001:2000  
REGISTERED



**0-50 Watts, DeskTop, Switchmode Universal Input,  
Single Output Family, Medical**

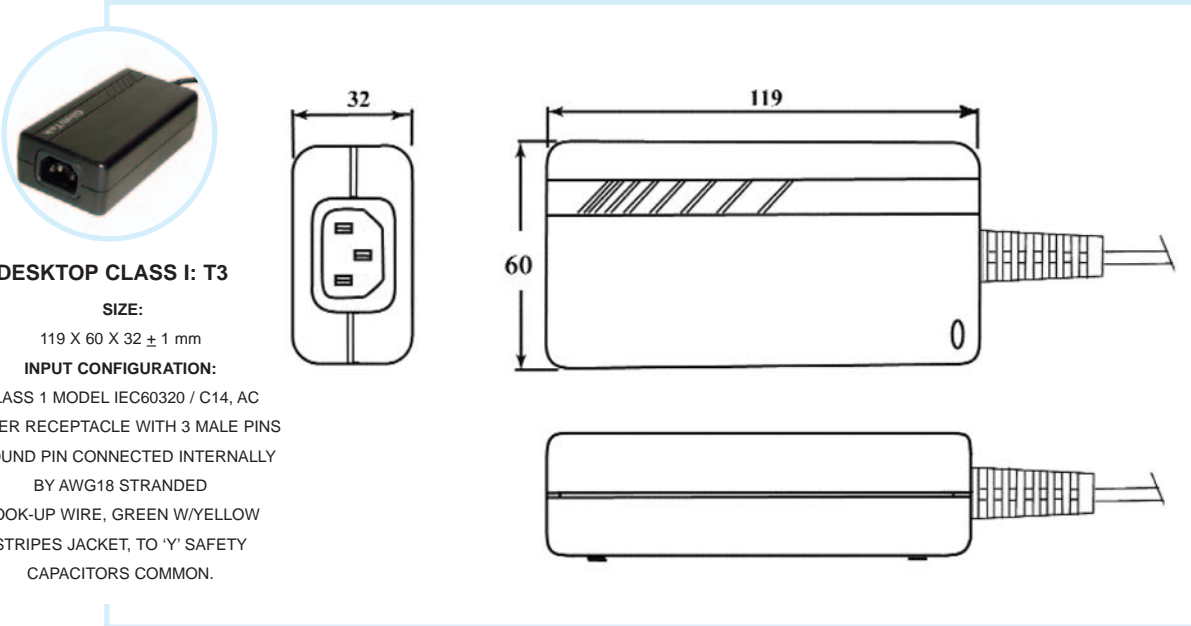
Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



FOR INDOOR USE ONLY

**ENCLOSURES**

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK



**DESKTOP CLASS I: T3**

**SIZE:**

119 X 60 X 32 ± 1 mm

**INPUT CONFIGURATION:**

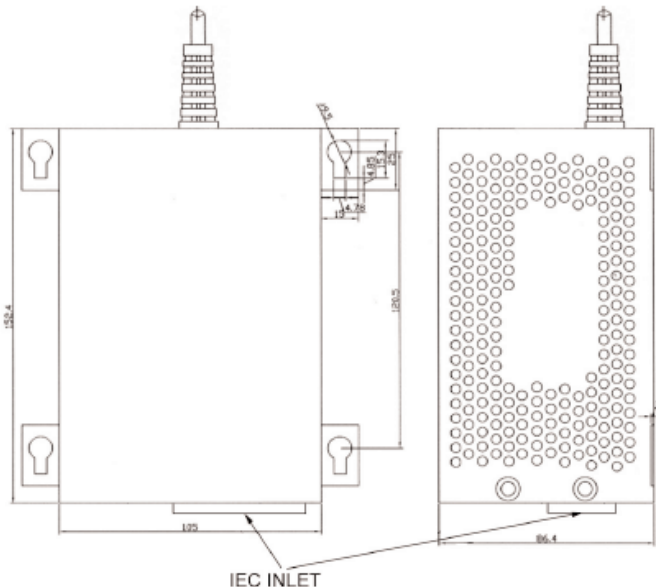
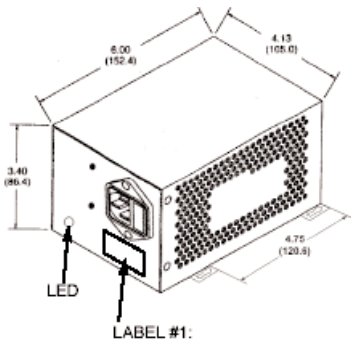
CLASS 1 MODEL IEC60320 / C14, AC  
POWER RECEPTACLE WITH 3 MALE PINS  
GROUND PIN CONNECTED INTERNALLY  
BY AWG18 STRANDED  
HOOK-UP WIRE, GREEN W/YELLOW  
STRIPES JACKET, TO 'Y' SAFETY  
CAPACITORS COMMON.

**INDICATOR:**

GREEN LED, OUTPUT PRESENT

**ALTERNATE ENCLOSURE (SPECIAL ORDER):**

UPPER COVER: MATERIAL: 0.048 in THICK  
ALUMINUM, GlobTek # 800-0202, SIDE(S)  
SCREENED,  
LOWER CHASSIS: GlobTek # 800-0203. KEYHOLE  
MOUNTING TABS (4), 4.75" CENTER SPACING.  
KEYHOLE: Ø 0.375 in , 0.188 in WIDE, & 0.60 in  
LONG.  
AC CORD CLIP AVAILABLE:  
SIZE: 152.4 x 105 x 86.4 + 1 mm



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GT221097 SERIES-50W

### 0-50 Watts, Desktop Universal Input, Class 2 Power Unit, Single Output Family

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

 FOR INDOOR USE ONLY



#### ELECTRICAL SPECIFICATIONS:

##### INPUT VOLTAGE:

90 VAC TO 132 VAC

##### INPUT CURRENT:

≤ 1.6 A RMS AT 90 VAC INPUT

##### INPUT FREQUENCY:

57 HZ - 63 HZ

##### OUTPUT CURRENT:

NO MINIMUM LOAD REQUIRED

##### OUTPUT POWER (RATED):

50 WATTS MAX

##### OUTPUT RIPPLE (PEAK TO PEAK):

≤ 1% TYPICAL

##### OUTPUT REGULATION (LINE/LOAD):

+ 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

##### LINE REGULATION:

± 0.5 % MAX AT FULL LOAD

##### TURN ON / TURN OFF OVERTHOOT:

4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD

##### TURN-ON DELAY:

1 SEC MAX

##### HOLD-UP TIME:

16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

##### INRUSH CURRENT:

20 A MAX AT COLD START FOR N.A. (40A FOR EURO)

##### EFFICIENCY:

75 % TYPICAL

##### SWITCHING FREQUENCY:

100 KHZ TYPICAL

##### OVER-VOLTAGE PROTECTION:

VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE

##### OVER-CURRENT / SHORT CIRCUIT:

HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

##### OTHER PROTECTION:

INPUT FUSING

#### OUTPUT VOLTAGE / CURRENT:

#### SAFETY APPROVALS (PENDING):

UL 1310, CUL TO 22.2 # 223-M91, PSE TO J60950, CLASS I

#### DIELECTRIC WITHSTAND VOLTAGE:

1500VAC PRIMARY-SECONDARY; 1500 VAC  
PRIMARY -GROUND

#### LEAKAGE CURRENT:

≤ 500µA AT 264 VAC INPUT

#### LINE SURGE:

EN 61000-4-5 LEVEL 4

#### EMI:

COMPLIES WITH EN55022 AND EN55011, CLASS B AND FCC  
PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD,  
BOTH CONDUCTED AND RADIATED

#### CE MARK:

EN55011, Group 1, Class B, EN55022 Class B, EN55011, Group  
1, Class B; EN55024 / EN60601-1-2 / IEC 61000-4-3:2002;  
EN55024 / EN60601-1-2 / IEC 61000-4-6:2001; EN55024 /  
EN60601-1-2 / IEC 61000-4-8:2001; EN55024 / EN60601-1-2 /  
IEC 61000-4-11:2001; EN55024 / EN60601-1-2 / IEC 61000-4-  
4:2001; EN55024 / EN60601-1-2 / IEC 61000-4-2:2001; EN55024  
/ EN60601-1-2 / IEC 61000-4-5:2001; EN55024 / EN 61000-3-3  
A1: 2001 / EN 61000-3-3 A1: 2001; EN55024 / EN 61000-3-  
2:2001 / EN 61000-3-2:2001. UNIT IS ELIGIBLE FOR CE MARK.

#### MTBF:

GREATER THAN 50,000 HOURS AT 25° C AMBIENT  
TEMPERATURE

#### OPERATING TEMPERATURE:

0° C TO 40° C

#### STORAGE TEMPERATURE:

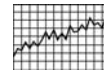
-40° C TO 80° C

#### HUMIDITY:

0% TO 90% RELATIVE HUMIDITY

#### NOTES:

1. DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.



SEE APPENDIX "E" FOR ELECTRICAL  
PERFORMANCE CURVES

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT221097-2003	+3.3	0 - 6.0	0 - 20
GT221097-3005-1.0	+4.0	0 - 6.0	0 - 24
GT221097-3005-X.X	+5.0	0 - 6.0	0 - 30
GT221097-4509-3.0	+6.0	0 - 5.0	0 - 30
GT221097-4509-2.0	+7.0	0 - 5.0	0 - 35
GT221097-4509-1.0	+8.0	0 - 5.0	0 - 40
GT221097-4509-X.X	+9.0	0 - 5.0	0 - 45
GT221097-5012-2.0	+10.0	0 - 5.0	0 - 50
GT221097-5012-1.0	+11.0	0 - 4.5	0 - 50
GT221097-5012-X.X	+12.0	0 - 4.17	0 - 50
GT221097-5015-2.0	+13.0	0 - 3.8	0 - 50
GT221097-5015-1.2	+13.8	0 - 3.6	0 - 50
GT221097-5015-1.0	+14.0	0 - 3.5	0 - 50
GT221097-5015-X.X	+15.0	0 - 3.3	0 - 50
GT221097-5018-X.X	+18.0	0 - 2.8	0 - 50
GT221097-5024-4.0	+20.0	0 - 2.5	0 - 50
GT221097-5024-X.X	+24.0	0 - 2.1	0 - 50
GT221097-5048-18.0	+30.0	0 - 1.7	0 - 50
GT221097-5048-12.0	+36.0	0 - 1.4	0 - 50
GT221097-5048-X.X	+48.0	0 - 1.1	0 - 50



ISO 9001:2000  
REGISTERED



**0-50 Watts, Desktop Universal Input,  
Class 2 Power Unit, Single Output Family**

Part Number Ordering System (See Page 154)  
Output Plug/Cord Options (See Page 145)



 FOR INDOOR USE ONLY

**ENCLOSURES**

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK



**DESKTOP CLASS I: T3**

**SIZE:**

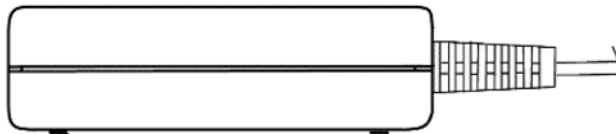
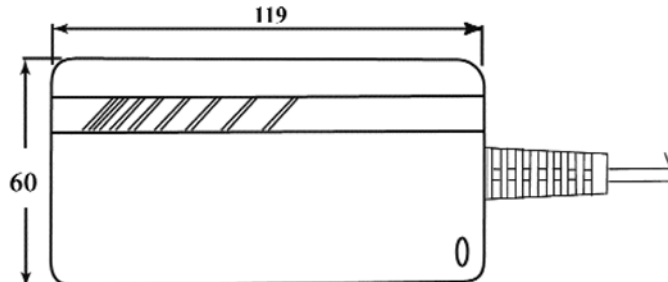
119 X 60 X 32 ± 1 mm

**INPUT CONNECTOR:**

**CONFIGURATION:**

CLASS 1

MODEL IEC60320 / C14, AC POWER  
RECEPTACLE WITH  
3 MALE PINS



**INDICATOR:**  
GREEN LED, OUTPUT PRESENT





ISO 9001:2000  
REGISTERED

**0-60 Watts, DC-DC Switchmode Power Supply, Single Output, Family, Input 11-16VDC, ITE**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**  
11-16VDC

**INPUT CURRENT:**  
6.5 A ( R.M.S.) MAX

**OUTPUT CURRENT:**  
NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
60 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
1% TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**  
± 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

**LINE REGULATION:**  
± 0.5 % MAX AT FULL LOAD

**TURN ON/ TURN OFF OVERSHOOT:**  
4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

**EFFICIENCY:**  
75 % TYPICAL

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

**OTHER PROTECTION:**  
INPUT FUSING

**SAFETY APPROVALS:**  
ITE MODEL: UL60950, CUL TO 22.2# 950, TUV TI EN60950, CE CLASS I & II

**DIELECTRIC WITHSTAND VOLTAGE:**  
3000VAC PRIMARY-SECONDARY;1500 VAC PRIMARY-GROUND

**LEAKAGE CURRENT:**  
< 0.25 mA

**LINE SURGE:**

EN 61000-4-5 LEVEL 4

**EMI:**

COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

**CE MARK:**

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**

GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE,

**OPERATING TEMPERATURE:**

0°C TO 40° C

**STORAGE TEMPERATURE:**

-40°C TO 80° C

**HUMIDITY:**

0% TO 90% RELATIVE HUMIDITY

**WEIGHT:**

209 g

**MODEL NUMBER CODE:**

GT-2: INTERNAL CODE;  
D: ITE MODEL DC INPUT  
1148: FAMILY ENCLOSURE DESIGNATION;  
3818 TO 6019: O/P POWER/VOLTAGE

**NOTES:**

1. EACH OUTPUT CURRENT CAN VARY WITHIN ITS DESIGNATION RANGE., AS LONG AS THE OUTPUT POWER IS NOT EXCEEDED.
2. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
3. X.X.: OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL: SUBTRACTING X.X. VOLTS FROM STANDARD OUTPUT VOLTAGE.
4. DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

**OUTPUT VOLTAGE / CURRENT:  
CLASS II MODELS, DOUBLE INSULATED**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTD21109-4515	+ 15.0	0 - 3.0	0 - 45
GTD21109-5316	+ 15.0	0 - 3.50	0 - 52.5
GTD21109-5618	+ 16.0	0 - 3.50	0 - 56
GTD21109-6016	+ 16.0	0 - 3.70	0 - 59.2
GTD21109-3818	+ 18.0	0 -2.10	0 - 37.8
GTD21109-5418	+ 18.0	0 - 3.0	0 - 54
GTD21109-5619	+ 19.0	0 - 2.90	0 - 55.1
GTD21109-6019	+ 19.0	0 - 3.10	0 - 58.9
GTD21109-5621	+ 21.0	0 - 2.60	0 - 54.6
GTD21109-5624	+ 24.0	0 - 2.30	0 - 55.2
GTD21109-5436	+ 36.0	0 - 1.50	0 - 54
GTD21109-4848	+ 48.0	0 - 1.0	0 - 48

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
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**0-60 Watts, DC-DC Switchmode Power Supply, Single Output, Family, Input 11-16VDC, ITE**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

**ENCLOSURE:**

HOUSING: HIGH IMPACT PLASTIC, 94VO POLYCARBONATE, NON-VENTED, COLOR BLACK



**SIZE:**

CLASS II MODELS:

SIZE: 103 X 50 X 32.5 + 1 mm

**INPUT CONNECTOR:**

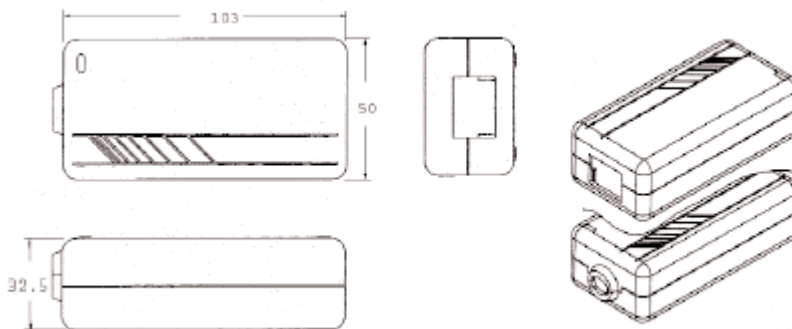
CONDUCTOR, 18AWG (OR 20 AWG) STRANDED WIRE, FLAT SPT-1 OR UL2468 CORD TYPE, COLOR BLACK,

LENGTH OF THE CORD:

1830 ± 50 mm.

CORD IS MEASURED FROM THE HOUSING TO THE END OF OVERMOLD OF THE CONNECTOR.

CABLE MARKED WITH WIRE GAUGE, AND ALL APPLICABLE RATING AND SAFETY APPROVALS.



**INPUT CONNECTOR:**

**OPTION # 1:**

CAR MALE CIGARETTE LIGHTER DC POWER PLUG (+,-) TIP POSITIVE WITH 5A/125V SLO-BLO FUSE

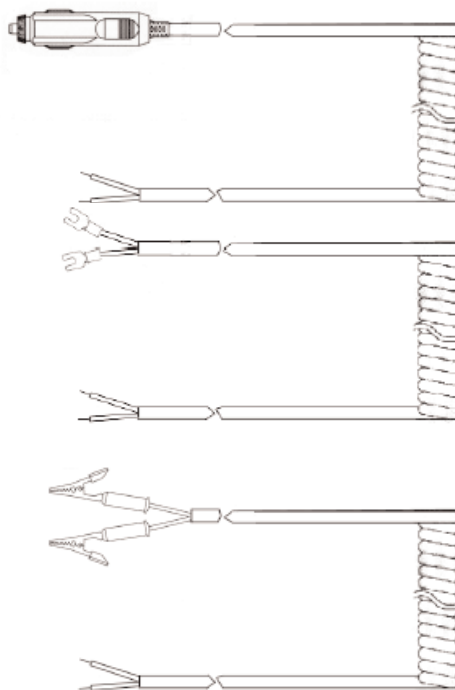
**OPTION # 2:**

SPADE TONGUE TERMINAL 0.25" FAST ON SOFT INSULATION TYPE

**INPUT CONNECTOR:**

**OPTION # 3:**

ALLIGATOR CLIPS



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
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## GT-21126 SERIES-60W

### 0-60 Watts, Desktop, Universal Input, Single Output Family, ITE Class I

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

 FOR INDOOR USE ONLY

#### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
<1.6A RMS AT 90VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
60 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
1% OF OUTPUT VOLTAGE , PEAK TO PEAK, TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**  
± 5 % MEASURED AT THE OUTPUT CONNECTOR

**LINE REGULATION:**  
± 1% TYPICAL MEASURED AT FULL LOAD

**TURN ON/ TURN OFF OVERTHOOT:**  
5% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC TYPICAL

**HOLD-UP TIME:**  
10mS TYPICAL AT NOMINAL INPUT VOLTAGE AND FULL LOAD

**INRUSH CURRENT:**  
20A TYPICAL AT 115Vac INPUT AND 30A TYPICAL AT 230Vac INPUT

**EFFICIENCY:**  
75% TYPICAL AT NOMINAL INPUT AND FULL LOAD

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED TO LESS THAN 130%, CROWBAR METHOD

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP MODE WITH AUTO-RECOVERY (110 - 130% OF RATED LOAD) / HICCUP MODE OUTPUT WILL AUTORECOVER UPON REMOVAL OF SHORT

**OTHER PROTECTION:**  
INPUT LINE FUSING



#### SAFETY APPROVALS:

UL 60950, CUL TO 22.2 NO. 60950, TUV TO EN60950, PSE J60950

#### DIELECTRIC WITHSTAND VOLTAGE:

4242VDC (3000VAC) FROM PRIMARY TO SECONDARY  
2121VDC (1500VAC) PRIMARY TO GROUND

#### LEAKAGE CURRENT:

<500uA AT 264Vac INPUT VOLTAGE

#### LINE SURGE:

EN 61000-4-5 LEVEL 4

#### EMI:

COMPLIES WITH EN55022 , CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED EMI.

#### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN610003-3 AND EN50082-1 INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 LEVEL 4.

#### MTBF:

GREATER THAN 50,000 HOURS AT 25° C AMBIENT TEMPERATURE

#### OPERATING TEMPERATURE:

0° C TO 40° C AMBIENT TEMPERATURE

#### STORAGE TEMPERATURE:

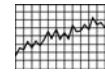
-40°C TO 80° C

#### HUMIDITY:

0% TO 90% RELATIVE HUMIDITY

#### NOTES:

1. -: ITE MODEL
2. EACH OUTPUT CURRENT MAY VARY WITHIN ITS DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
3. \*SINGLE OUTPUT UNITS ARE AVAILABLE FROM 12V UP TO 24V IN 0.1V INCREMENTS.
4. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.
5. SEE APPENDIX "F" FOR ELECTRICAL PERFORMANCE CURVES.



SEE APPENDIX "F" FOR ELECTRICAL PERFORMANCE CURVES

#### OUTPUT VOLTAGE / CURRENT:

MODEL NUMBER	OUTPUT VOLTAGE* (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-21126-6012	+12.0	0 - 5.0	0 - 60
GT-21126-6024-11	+13.0	0 - 4.6	0 - 60
GT-21126-6024-10.2	+13.8	0 - 4.3	0 - 60
GT-21126-6024-10.0	+14.0	0 - 4.2	0 - 60
GT-21126-6024-9.0.	+15.0	0 - 4.0	0 - 60
GT-21126-6024-8.0	+16.0	0 - 3.75	0 - 60
GT-21126-6024-6.0	+18.0	0 - 3.3	0 - 60
GT-21126-6024-5.0	+19.0	0 - 3.16	0 - 60
GT-21126-6024-4.0	+20.0	0 - 3.0	0 - 60
GT-21126-6024-2.0	+22.0	0 - 2.7	0 - 60
GT-21126-6024	+24.0	0 - 2.5	0 - 60

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





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**0-60 Watts, Desktop, Universal Input, Single Output  
Family, ITE Class I**

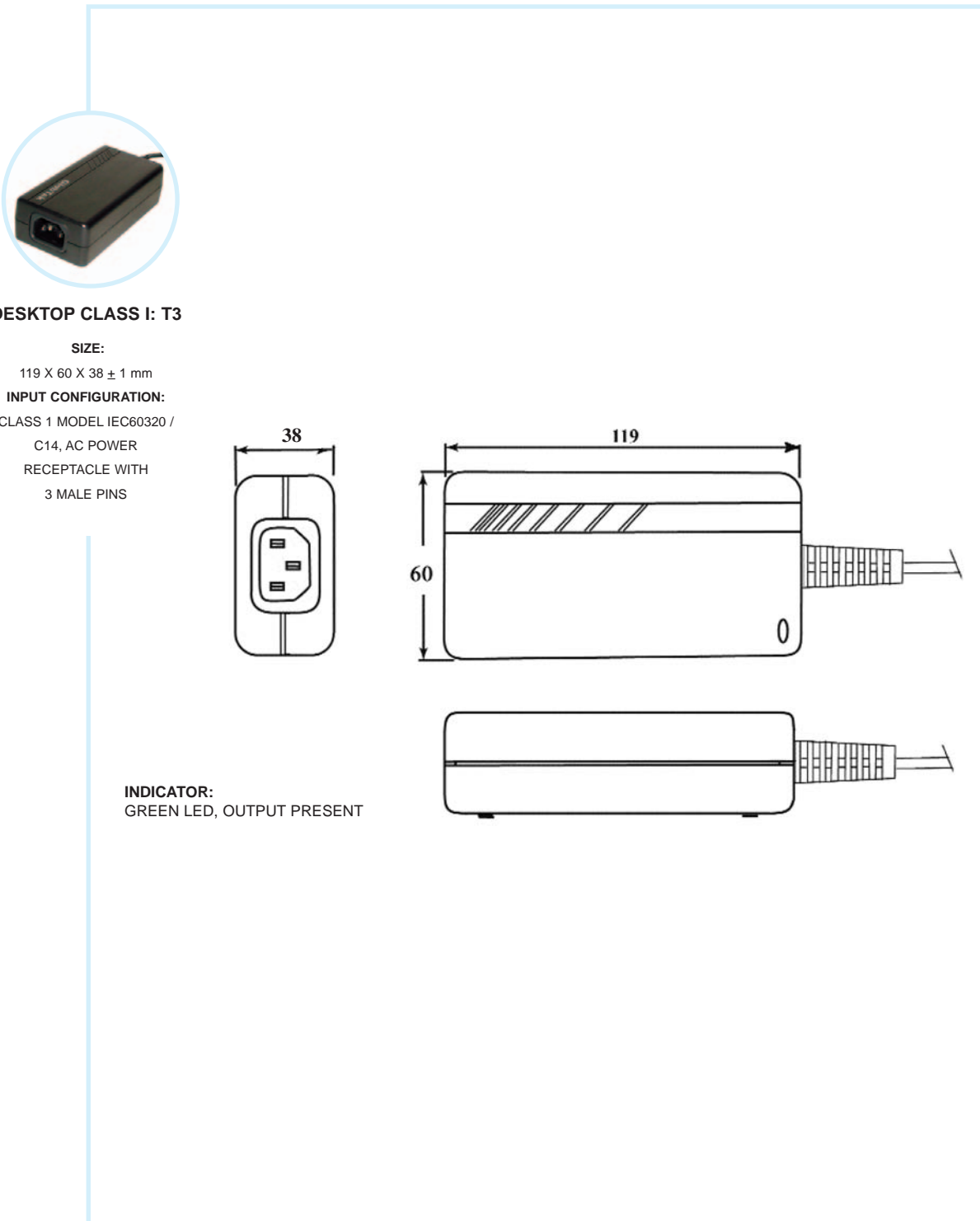
Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



FOR INDOOR USE ONLY

**ENCLOSURES**

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK



**DESKTOP CLASS I: T3**

**SIZE:**

119 X 60 X 38 ± 1 mm

**INPUT CONFIGURATION:**

CLASS 1 MODEL IEC60320 /  
C14, AC POWER  
RECEPTACLE WITH  
3 MALE PINS

**INDICATOR:**  
GREEN LED, OUTPUT PRESENT



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GT-561 SERIES-60W

### 50-60 Watts, Single, Dual, Triple Output Switchmode Power Supply Desktop, Universal Input

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

 FOR INDOOR USE ONLY

#### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
≤ 1.3 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
50-60 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
≤ 1% TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**  
± 1.5-3 % FOR MAIN OUTPUT, ± 3.0-5.0% FOR SECOND AND  
**LINE REGULATION:**  
± 1.0-2.0% FOR THIRD OUTPUT

**TURN ON/ TURN OFF OVERTHOOT:**  
4% MAX 500 uS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
15 mSEC MIN AT 115 VAC, 75 mS AT 230 VAC

**INRUSH CURRENT:**  
20 A MAX AT COLD START @ 230 VAC

**EFFICIENCY:**  
75 -80% TYPICAL

**SWITCHING FREQUENCY:**  
44 KHZ TYPICAL

**ADJUSTABILITY:**  
FACTORY SET

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE FOR  
MAIN OUTPUT

**OVER-CURRENT / SHORT CIRCUIT:**  
1.1 - 1.3 IO HICCUP WITH AUTO RECOVERY

#### OTHER PROTECTION:

INPUT FUSING

**SAFETY APPROVALS:**  
UL 60950 / 1950, CUL TO 22.2 # 234, 950, TUV TO EN 60950,  
CE CLASS I

**DIELECTRIC WITHSTAND VOLTAGE:**  
1500VAC PRIMARY-SECONDARY; 1500 VAC  
PRIMARY- GROUND

**LEAKAGE CURRENT:**  
3.5 mA MAX

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

**EMI:**  
COMPLIES WITH EN55022, CLASS B AND FCC PART 15  
CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH  
CONDUCTED AND RADIATED

**CE MARK:**  
TESTED TO COMPLY WITH EN61000-3-2, EN61000-3-3 AND  
EN50082-1 INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4,  
EN61000-4-5, EN61000-4-6, EN61000-4-11 LEVEL 4, UNIT IS  
ELIGIBLE FOR CE MARK.

**MTBF:**  
SHALL BE 50,000 HOURS OR GREATER AT 25° C AMBIENT  
TEMPERATURE

**OPERATING TEMPERATURE:**  
0° C TO 40° C

**STORAGE TEMPERATURE:**  
-20° C TO 85° C

**HUMIDITY:**  
0% TO 90% RELATIVE HUMIDITY

**WEIGHT:**  
531 g

**NOTES:**  
DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.



#### OUTPUT VOLTAGE / CURRENT:

NOTE: P/N "XXX" IS DC CONNECTOR DESIGNATION

PART NUMBER	MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	RATED OUTPUT POWER (W)
TR9CQ9000XXX-R	GT-561-19	+ 3.3 ± 1.5-3%	9.0	50-60
TR9CAA7000XXX-R	GT-561-20	+ 5 ± 1.5-3%	7.0	50-60
	DUAL	-5 ± 3-5%	0.75	
TR9CM5000XXX-R	GT-561-21	+ 5 ± 1.5-3%	5.0	50-60
	DUAL	+12 ± 3-5%	2.0	
TR9CM7500XXX-R	GT-561-21A	+ 5 ± 1.5-3%	7.5	50-60
	DUAL	+12 ± 3-5%	0.5	
TR9CAG5000XXX-R	GT-561-22	+ 5 ± 1.5-3%	5.0	50-60
	DUAL	+15 ± 3-5%	1.6	
TR9CAI2000XXX-R	GT-561-23	+ 5 ± 1.5-3%	5.0	50-60
	DUAL	+24 ± 3-5%	1.0	
TR9CGK2000XXX-R	GT-561-25	+ 15 ± 1.5-3%	2.0	50-60
	DUAL	+ 8 ± 3-5%	1.7	
TR9CV5000XXX-R	GT-561-30	+ 5 ± 1.5-3%	5.0	50-60
	TRIPLE	+12 ± 3-5%	1.5	
		- 12 ± 1-2%	0.5	

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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**50-60 Watts, Single, Dual, Triple Output Switchmode Power Supply Desktop, Universal Input**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



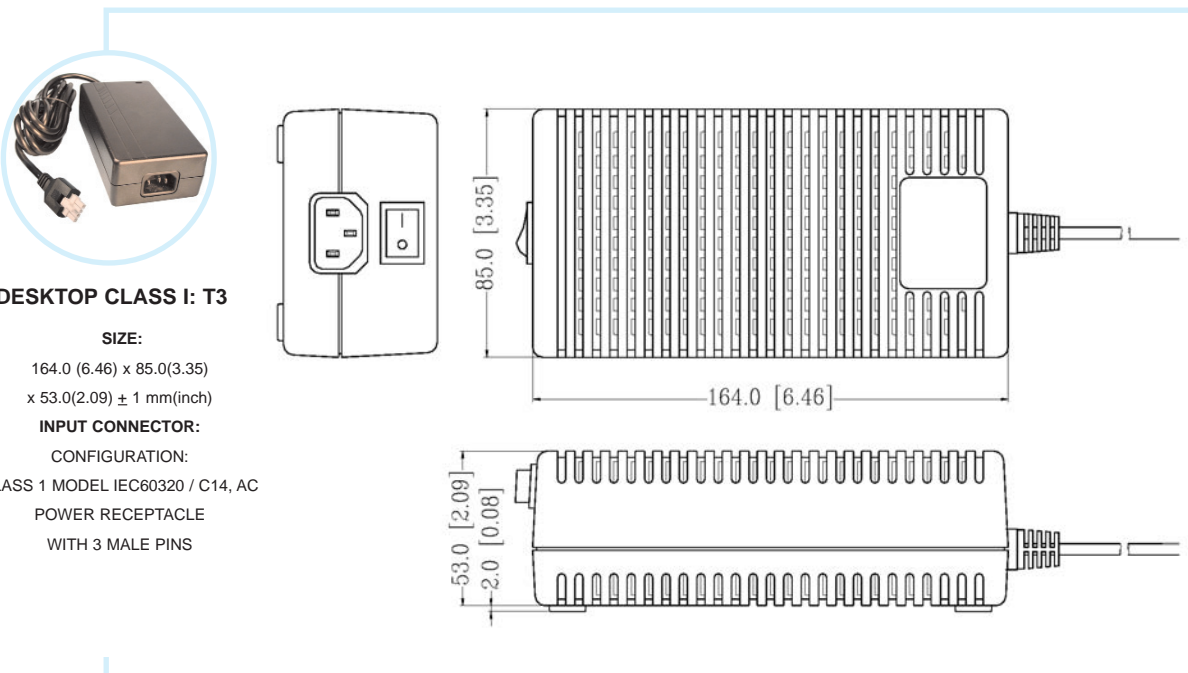
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PART NUMBER	MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	RATED OUTPUT POWER (W)
TR9CAAE5000XXX-R	GT-561-31	+ 5 ± 1.5-3%	5.0	50-60
	TRIPLE	+ 12 ± 3-5%	1.5	50-60
		- 5 ± 1-2%	0.8	
TR9CAEI5000XXX-R	GT-561-32	+ 5 ± 1.5-3%	5.0	50-60
	TRIPLE	+ 24 ± 3-5%	0.75	
		- 12 ± 1-2%	0.5	50-60
TR9CAAG5000XXX-R	GT-561-33	+ 5 ± 1.5-3%	5.0	
	TRIPLE	+ 15 ± 3-5%	1.5	50-60
		- 5 ± 1-2%	0.5	
TR9CAGG5000XXX-R	GT-561-34	+ 5 ± 1.5-3%	5.0	50-60
	TRIPLE	+ 15 ± 3-5%	1.5	
		- 15 ± 1-2%	0.2	



**ENCLOSURES**

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, COLOR BLACK



**DESKTOP CLASS I: T3**

**SIZE:**

164.0 (6.46) x 85.0(3.35)  
x 53.0(2.09) ± 1 mm(inch)

**INPUT CONNECTOR:**

CONFIGURATION:  
CLASS 1 MODEL IEC60320 / C14, AC  
POWER RECEPTACLE  
WITH 3 MALE PINS

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GT-22011 SERIES 0-60W

### 0-60 Watts, Switchmode Power Supply, Single Output, Family Desktop, Universal Input, ITE, Class II

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

 FOR INDOOR USE ONLY



#### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
< 1.2 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
60 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
1% TYPICAL

**OUTPUT REGULATION (LINE/LOAD):**  
± 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

**LINE REGULATION:**  
+ 0.5 % MAX AT FULL LOAD

**TURN ON/ TURN OFF OVERTHOOT:**  
4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

**INRUSH CURRENT:**  
20 A MAX AT COLD START AT 115VAC; 40 A AT 230VAC

**EFFICIENCY:**  
75 % TYPICAL

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

**OTHER PROTECTION:**  
INPUT FUSING

**SAFETY APPROVALS:**  
ITE MODEL: UL60950, CUL TO 22.2# 950, TUV GS TO EN60950,  
PSE TO J60950 CE CLASS II CB REPORT

**DIELECTRIC WITHSTAND VOLTAGE:**  
4242VDC (3000VAC) FROM PRIMARY TO SECONDARY

**LEAKAGE CURRENT:**  
≤ 0.25 mA

#### LINE SURGE:

EN 61000-4-5 LEVEL 4

#### EMI:

COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

#### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

#### MTBF:

GREATER THAN 50,000 HOURS AT 25° C AMBIENT TEMPERATURE

#### OPERATING TEMPERATURE:

0° C TO 40° C

#### STORAGE TEMPERATURE:

-40° C TO 80° C

#### HUMIDITY:

0% TO 90% RELATIVE HUMIDITY

#### NOTES:

1. EACH OUTPUT CURRENT MAY VARY WITHIN ITS DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
2. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 5V UP TO 24V IN 0.1V INCREMENTS.
3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.

#### OUTPUT VOLTAGE / CURRENT: CLASS II MODELS, DOUBLE INSULATED,T2

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-22011-6024	+12.0	0 - 5.0	0 - 60
GT-22011-6024-11	+13.0	0 - 4.6	0 - 60
GT-22011-6024-10.2	+13.8	0 - 4.3	0 - 60
GT-22011-6024-10.0	+14.0	0 - 4.2	0 - 60
GT-22011-6024-9.0.	+15.0	0 - 4.0	0 - 60
GT-22011-6024-8.0	+16.0	0 - 3.75	0 - 60
GT-22011-6024-6.0	+18.0	0 - 3.3	0 - 60
GT-22011-6024-5.0	+19.0	0 - 3.16	0 - 60
GT-22011-6024-4.0	+20.0	0 - 3.0	0 - 60
GT-22011-6024-2.0	+22.0	0 - 2.7	0 - 60
GT-22011-6024	+24.0	0 - 2.5	0 - 60

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**0-60 Watts, Switchmode Power Supply, Single Output,  
Family Desktop, Universal Input, ITE, Class II**

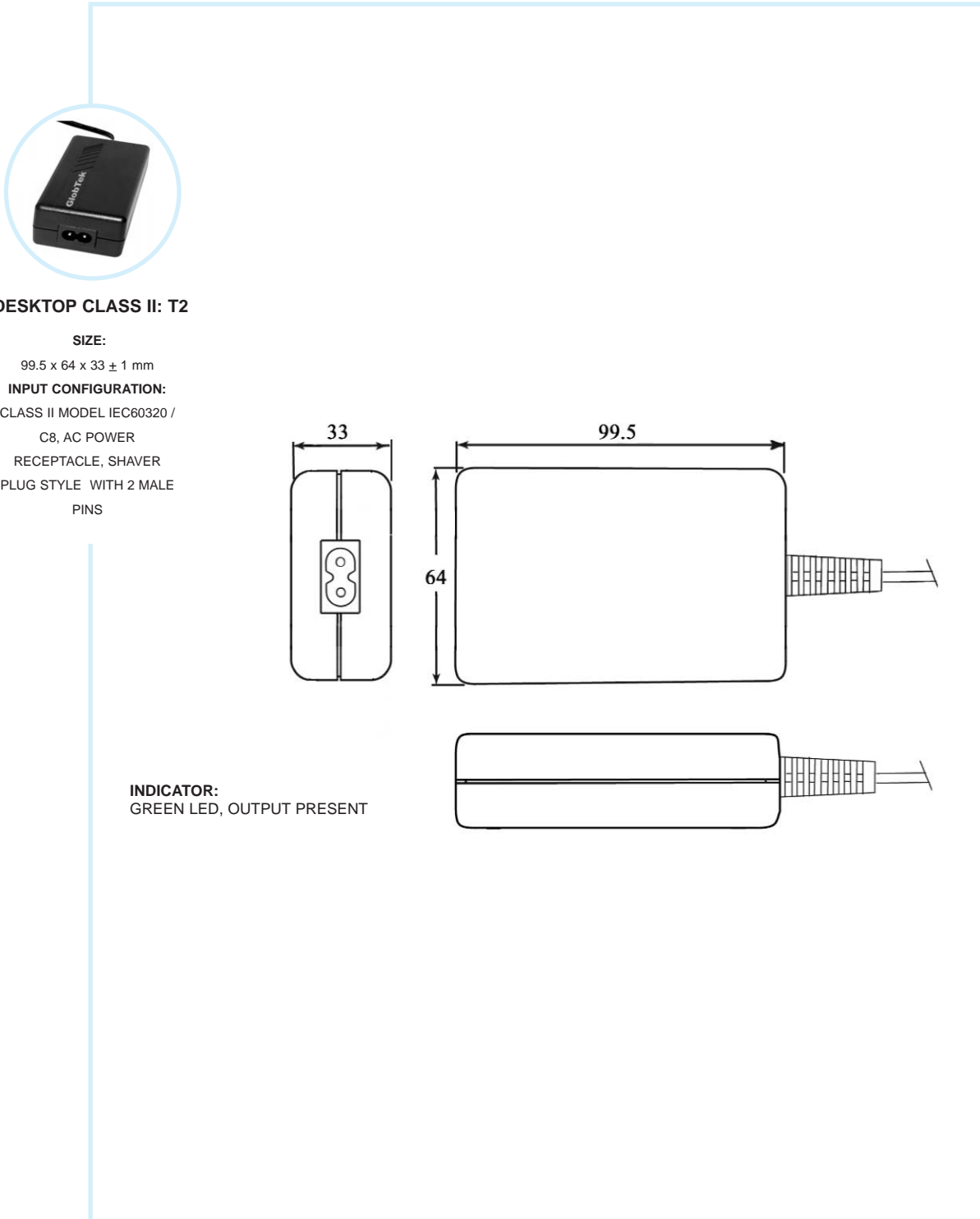
Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



FOR INDOOR USE ONLY

**ENCLOSURES**

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK



**DESKTOP CLASS II: T2**

**SIZE:**

99.5 x 64 x 33 ± 1 mm

**INPUT CONFIGURATION:**

CLASS II MODEL IEC60320 /

C8, AC POWER

RECEPTACLE, SHAVER

PLUG STYLE WITH 2 MALE

PINS

**INDICATOR:**

GREEN LED, OUTPUT PRESENT



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GT-2065 AND GT-2066 SERIES-65W

### 0-65 Watts, 3"X5" Open Frame, Universal Input, Single, Dual and Triple Output Family, ITE

Medical Versions (See Page 71)



#### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE:**  
UNIVERSAL INPUT FROM 100VAC TO 240VAC

**INPUT CURRENT:**  
1.5A@65W MAXIMUM AT 90Vac FULL LOAD

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
65 WATTS MAX FREE AIR CONVECTION

**OUTPUT RIPPLE (PEAK TO PEAK):**  
LESS THAN 1% OF OUTPUT VOLTAGE

**OUTPUT REGULATION (LINE/LOAD):**  
+/-5% MAXIMUM MEASURED AT THE OUTPUT CONNECTOR

**LINE REGULATION:**  
+/- 1% TYPICAL MEASURED AT FULL LOAD<sup>4</sup>

**TURN ON/ TURN OFF OVERTHOOT:**  
5% MAXIMUM, 1ms TYPICAL RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
3 SEC TYPICAL

**HOLD-UP TIME:**  
16ms TYPICAL @ 120VAC, 50ms TYPICAL @ 230VAC

**INRUSH CURRENT:**  
20A MAXIMUM AT 120VAC AND 40A MAXIMUM AT 230VAC

**EFFICIENCY:**  
75% TYPICAL AT NOMINAL INPUT AND FULL LOAD<sup>4</sup>

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
OUTPUT LIMITED BETWEEN 120 TO 150% OF NOMINAL, HICCUP MODE

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP MODE WITH AUTORECOVERY ONCE FAULT IS REMOVED. POWER SUPPLY IS OUTPUT POWER LIMITED, HICCUP MODE

**OTHER PROTECTION:**  
INPUT LINE FUSING

**SAFETY APPROVALS:**  
UL 60950 (THIRD EDITION), CUL TO 22.2 NO. 60950, DEMKO TO EN60950, CB REPORT

**DIELECTRIC WITHSTAND VOLTAGE:**  
4242VDC (3000VAC) FROM PRIMARY TO SECONDARY  
2121VDC (1500VAC) SECONDARY TO GROUND

#### LEAKAGE CURRENT:

250uA AT 240VAC

#### LINE SURGE:

EN 61000-4-5 LEVEL 2

#### EMI:

COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED EMI.

#### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN610003-3 AND EN50082-1 INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11.

#### MTBF:

100K HRS 25C FULL LOAD , NOMINAL INPUT VOLTAGE (MIL-HDBK-217F)

#### OPERATING TEMPERATURE:

-20°C TO 50°C AMBIENT TEMPERATURE

#### STORAGE TEMPERATURE:

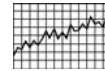
-40° C TO 80° C

#### HUMIDITY:

NON-CONDENSING; 5% TO 90% RH

#### NOTES:

1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATED RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
2. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.
4. TYPICAL EFFICIENCY FOR 7.5V AND BELOW IS 70%



SEE APPENDIX "G" FOR ELECTRICAL PERFORMANCE CURVES

#### OPTIONS:

1. PASSIVE PFC VERSION
2. CLASS II VERSION
3. EXTENDED PCB WITH CONFIGURABLE ENCLOSURE.
4. OPEN FRAME WITH CONFIGURABLE INPUT AND OUTPUT WIRING HARNESS.
5. L-BRACKET WITH PERFORATED COVER
6. REMOTE SENSING

#### OUTPUT VOLTAGE / CURRENT / POWER:

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	65W OUTPUT CURRENT (A) FREE AIR CONVECTION	RATED OUTPUT POWER (W)	
GT-2065(P)333.3-X.X	F(W) OR EXXX(W) OR HXXX(W)	+3.3	10.0	33
GT-2065(P)4005-X.X	F(W) OR EXXX(W) OR HXXX(W)	+5.0	8.00	40
GT-2065(P)657.5-X.X	F(W) OR EXXX(W) OR HXXX(W)	+7.5	8.67	65
GT-2065(P)6509-X.X	F(W) OR EXXX(W) OR HXXX(W)	+9.0	7.22	65
GT-2065(P)6512-X.X	F(W) OR EXXX(W) OR HXXX(W)	+12.0	5.42	65
GT-2065(P)6515-X.X	F(W) OR EXXX(W) OR HXXX(W)	+15.0	4.33	65
GT-2065(P)6518-X.X	F(W) OR EXXX(W) OR HXXX(W)	+18.0	3.61	65
GT-2065(P)6524-X.X	F(W) OR EXXX(W) OR HXXX(W)	+24.0	2.71	65
GT-2065(P)6536-X.X	F(W) OR EXXX(W) OR HXXX(W)	+36.0	1.80	65
GT-2065(P)6548-X.X	F(W) OR EXXX(W) OR HXXX(W)	+48.0	1.36	65

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

ISO 9001:2000  
REGISTERED**0-65 Watts, 3"X5" Open Frame, Universal Input,  
Single, Dual and Triple Output Family, ITE**

Medical Versions (See Page 71)

**OUTPUT VOLTAGE / CURRENT:**

MODEL NUMBER		OUTPUT VOLTAGE (VDC)	65W OUTPUT CURRENT (A) FREE AIR CONVECTION	RATED OUTPUT POWER (W)
<b>DUAL OUTPUT SECTION</b>		<b>PRELIMINARY</b>		
GT-2066(P)-330500-XX	F(W) OR EXXX(W) OR HXXX(W)	+3.3/+5.0	10.0/1.4	40
GT-2066(P)-051200-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0	10.0/1.25	65
GT-2066(P)-05N1200-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-12.0	10.0/1.25	65
GT-2066(P)-051500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+15.0	10.0/1.0	65
GT-2066(P)-05N1500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-15.0	10.0/1.0	65
GT-2066(P)-052400-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+24.0	10.0/0.62	65
GT-2066(P)-24N0500-XX	F(W) OR EXXX(W) OR HXXX(W)	+24.0/-5.0	2.29/2.0	65
GT-2066(P)-05N0500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-5.0	11.0/2.0	65
GT-2066(P)-12N1200-XX	F(W) OR EXXX(W) OR HXXX(W)	+12.0/-12.0	4.41/1.0	65
GT-2066(P)-15N1500-XX	F(W) OR EXXX(W) OR HXXX(W)	+15.0/-15.0	3.33/1.0	65
GT-2066(P)-18N1800-XX	F(W) OR EXXX(W) OR HXXX(W)	+18.0/-18.0	2.61/1.0	65
GT-2066(P)-24N2400-XX	F(W) OR EXXX(W) OR HXXX(W)	+24.0/-24.0	2.20/0.50	65
<b>TRIPLE OUTPUT SECTION</b>		<b>PRELIMINARY</b>		
GT-2066(P)-330512-XX	F(W) OR EXXX(W) OR HXXX(W)	+3.3/+5.0/+12.0	5.0/3.0/1.0	43.5
GT-2066(P)-0512N12-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0-12.0	5.0/2.3/1.0	65
GT-2066(P)-0512N05-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/-5.0	7.0/2.0/1.2	65
GT-2066(P)-051215-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/+15.0	5.0/2.0/1.0	65
GT-2066(P)-0515N15-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+15.0/-15.0	5.0/2.0/0.67	65
GT-2066(P)-051224-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/+24.0	5.8/2.0/0.50	65
GT-2066(P)-0524N12-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+24.0/-12.0	5.0/1.0/1.33	65

**MODEL NUMBER DESCRIPTION****GT(M)2065(P)333.3-X.X TO 6548-X.X****GT:** GLOBTEK SERIES**M:** MEDICAL GRADE; - (DASH) FOR ITE GRADE

2065: 65W FAMILY DESIGNATOR

**P:** PASSIVE PFC VERSION; NO "P" FOR NON-PFC VERSION

333.3 TO 6548 = 33W @ 3.3V UP TO 65W @ 48V OUTPUT POWER

**XX:** USE TO SPECIFY OUTPUT VOLTAGE DEVIATION FROM

STANDARD MODEL BY SUBTRACTING X.X VOLTS FROM

STANDARD OUTPUT VOLTAGE

DUAL AND TRIPLE OUTPUT (GT(M)2066): XXYYZZ DESIGNATES

THE OUTPUT VOLTAGE COMBINATION.

**F(W)****F:** OPEN FRAME VERSION**W:** CLASS II UNITS (NO "W" MEANS CLASS I)**(E)XXX(W)A****E:** EXTENDED PCB (3X6); NO "E" MEANS STANDARD SIZE BOARD (3X5)**XXX:** DENOTES PERFORATED ENCLOSURE AND BASE PLATE SIZE CODE WHERE XXX CAN BE FROM 000 TO 999

(MAXIMUM PERFORATED ENCLOSURE AND BASE PLATE SIZE IS 50" X 30")

**W:** CLASS II UNITS (NO "W" MEANS CLASS I)**HXXX(W)A****H:** OPEN FRAME WITH CONFIGURABLE INPUT AND OUTPUT

WIRE HARNESS USING UL1007/UL1015 AWG18 WIRES

**XXX:** DENOTES INPUT AND OUTPUT WIRE HARNESS LENGTH

CODE WHERE XXX CAN BE FROM 000 TO 999

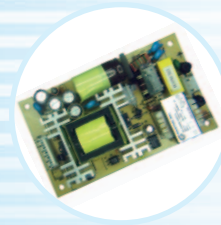
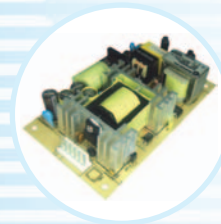
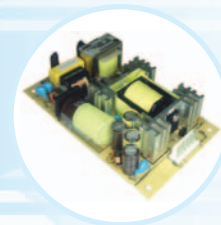
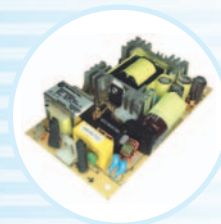
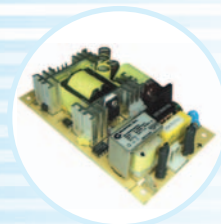
(MAXIMUM WIRE HARNESS LENGTH FOR INPUT CONNECTOR

IS 100mm AND 200mm FOR OUTPUT CONNECTOR)

**W:** CLASS II UNITS (NO "W" MEANS CLASS I)**NOTES:**

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) FOR 80W VERSIONS, 10CFM OF AIR FLOW DIRECTED TOWARD THE LONGER SIDE OF THE POWER SUPPLY IS REQUIRED. THERMAL TESTING FOR 80W EVALUATION WAS DONE IN A WIND TUNNEL MEASURING 35" X 6" X 2" . A FINE WIRE MESH SCREEN (3 LOCATIONS) WAS USED TO DISPERSE THE INCOMING AIR.
- 3) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 4) CONDUCTED AND RADIATED EMI WERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES. DEPENDING ON SYSTEM CONFIGURATION, ADDITIONAL FILTERING MAY BE REQUIRED.
- 5) ALL MODELS MAY REQUIRE A MINIMUM MOUNTING STANDOFF OF 0.16" (4.00mm) IN THE END USER PRODUCT.
- 6) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMI-CONDUCTOR CASE SHOULD EXCEED 130C.
- 7) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID STABILITY PROBLEM IN THE POWER SUPPLY.

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
REGISTERED

GT-2065 AND GT-2066 SERIES-65W

0-65 Watts, 3"X5" Open Frame, Universal Input, Single, Dual and Triple Output Family, ITE

Medical Versions (See Page 71)

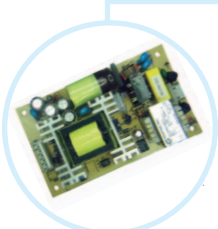


INDOOR USE ONLY



CONFIGURATION

OPEN FRAME SWITCHING POWER SUPPLY WITH MOUNTING HOLES POSITIONED AS BELOW



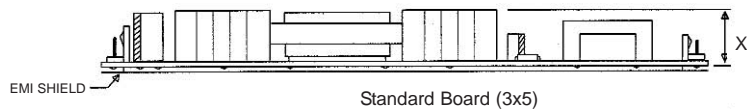
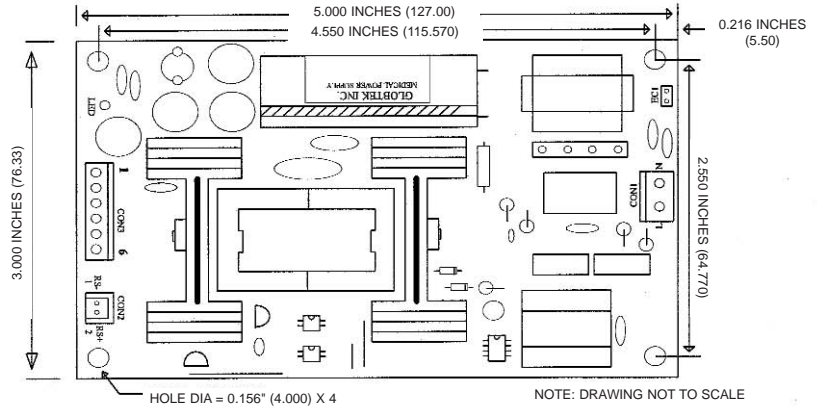
OPEN FRAME CLASS I:

INPUT CONNECTOR (CON1)

MOLEX 3-PIN WITH CENTER PIN REMOVED  
MOLEX PN: 26-60-4030 MATES  
W/PN: 09-50-3031,  
PIN 1: AC LINE, PIN 3: AC NEUTRAL  
EC1: EARTH GROUND FOR CLASS I UNITS

INPUT CONNECTOR (CON1 OPTION)

WIRE HARNESS WITH MOLEX  
HEADER PN: 09-50-3031  
WITH AWG 18 STRANDED WIRE, UL1007  
WITH CONFIGURABLE  
LENGTH UP TO 100mm.  
BLACK/BROWN FOR AC LINE;  
WHITE/BLUE FOR AC NEUTRAL;  
GREEN WITH YELLOW STRIPE  
FOR EARTH GROUND



DRAWING SHOWN IS FOR  
SINGLE OUTPUT

X = 1.35 (34.30) INCHES FOR SINGLE OUTPUT  
X = 1.6 INCHES FOR DUAL AND TRIPLE OUTPUTS

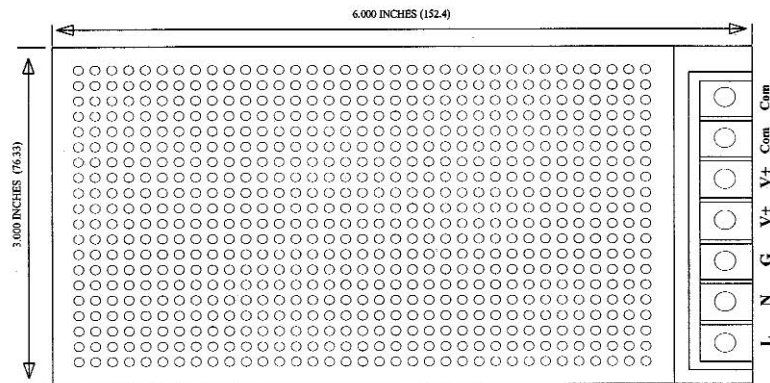
OUTPUT CONNECTOR (CON3)

MOLEX 6-PIN FRICTION LOCK HEADER, MOLEX PN: 26-60-4060, MATES WITH PN: 09-50-3061, PIN 1,2,3: COMMON, PIN 4,5,6: V+, CON2 IS REMOTE SENSE CONNECTOR, MOLEX 22-28-0020, MATES WITH MOLEX PN: 22-01-2021, PIN 1: -SENSE; PIN2: +SENSE

OUTPUT CONNECTOR (CON3) WITH WIRE HARNESS(H)

WIRE HARNESS WITH MOLEX HEADER PN: 09-50-3061, WITH AWG 18 STRANDED WIRE, UL1007 WITH CONFIGURABLE LENGTH UP TO 200mm. 3 X AWG18, RED FOR V+ 3 X AWG18 BLACK FOR COMMON, CON2 IS REMOTE SENSE CONNECTOR, MOLEX 22-28-0020  
MATES WITH MOLEX PN: 22-01-2021, PIN 1: -SENSE; PIN2: +SENSE

OPTION:  
L-BRACKET WITH  
PERFORATED  
COVER.



42.00mm Max. (1.65 Inches Max)

Extended Board (3x6)

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



**0-65 Watts, 3"X5" Open Frame, Universal Input, Single, Dual, Triple Output Family, Medical****ELECTRICAL SPECIFICATIONS:****INPUT VOLTAGE:**

UNIVERSAL INPUT FROM 100VAC TO 240VAC

**INPUT CURRENT:**

1.5A@65W and 2.5A AT 80W MAXIMUM AT 90Vac FULL LOAD

**INPUT FREQUENCY:**

47 HZ - 63 HZ

**OUTPUT CURRENT:**

NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**

65 WATTS MAX FREE AIR CONVECTION

**OUTPUT RIPPLE (PEAK TO PEAK):**

LESS THAN 1% OF OUTPUT VOLTAGE

**OUTPUT REGULATION (LINE/LOAD):**

+/-5% MAXIMUM MEASURED AT THE OUTPUT CONNECTOR

**LINE REGULATION:**

+/- 1% TYPICAL MEASURED AT FULL LOAD

**TURN ON/ TURN OFF OVERTHOOT:**

5% MAXIMUM, 1ms TYPICAL RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**

3 SEC TYPICAL

**HOLD-UP TIME:**

16mS TYPICAL @ 120VAC, 50mS TYPICAL @ 230VAC

**INRUSH CURRENT:**

20A MAXIMUM AT 120VAC AND 40A MAXIMUM AT 230VAC

**EFFICIENCY:**

75% TYPICAL AT NOMINAL INPUT AND FULL LOAD\*

**SWITCHING FREQUENCY:**

100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**

OUTPUT LIMITED BETWEEN 120 TO 150% OF NOMINAL, HICCUP MODE

**OVER-CURRENT / SHORT CIRCUIT:**

HICCUP MODE WITH AUTORECOVERY ONCE FAULT IS REMOVED. POWER SUPPLY IS OUTPUT POWER LIMITED, HICCUP MODE

**OTHER PROTECTION:**

INPUT LINE FUSING

**SAFETY APPROVALS:**

UL 60601.1, CUL TO 22.2 NO. 60601, DEMKO TO EN60601, CB REPORT

**DIELECTRIC WITHSTAND VOLTAGE:**5656VDC (4000VAC) FROM PRIMARY TO SECONDARY  
2121VDC (1500VAC) SECONDARY TO GROUND**LEAKAGE CURRENT:**

250uA MAXIMUM AT 240VAC

**LINE SURGE:**

EN 61000-4-5 LEVEL 2

**EMI:**

COMPLIES WITH EN55011 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED EMI.

**CE MARK:**

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3 AND EN50082-1 INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 LEVEL 4.

**MTBF:**

100K HRS 25C FULL LOAD , NOMINAL INPUT VOLTAGE (MIL-HDBK-217F)

**OPERATING TEMPERATURE:**

-20°C TO 50°C AMBIENT TEMPERATURE

**STORAGE TEMPERATURE:**

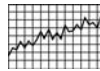
-40° C TO 80° C

**HUMIDITY:**

NON-CONDENSING; 5% TO 90% RH

**NOTES:**

1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATED RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
2. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.
4. TYPICAL EFFICIENCY FOR 7.5V AND BELOW IS 70%



SEE APPENDIX "G" FOR ELECTRICAL PERFORMANCE CURVES

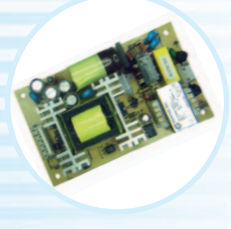
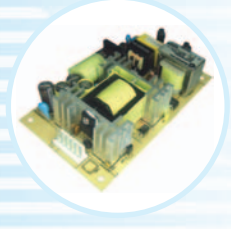
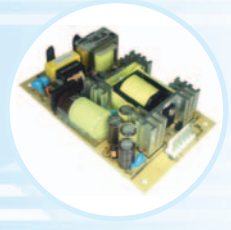
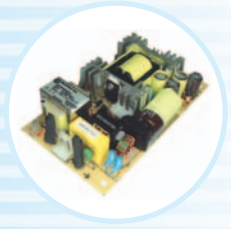
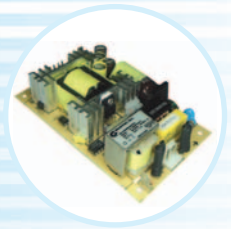
**OPTIONS:**

1. PASSIVE PFC VERSION
2. CLASS II VERSION
3. EXTENDED PCB WITH CONFIGURABLE ENCLOSURE.
4. OPEN FRAME WITH CONFIGURABLE INPUT AND OUTPUT WIRING HARNESS.
5. L-BRACKET WITH PERFORATED COVER
6. REMOTE SENSING

**OUTPUT VOLTAGE / CURRENT:**

MODEL NUMBER		OUTPUT VOLTAGE (VDC)	65W OUTPUT CURRENT (A) FREE AIR CONVECTION	RATED OUTPUT POWER (W)
<b>SINGLE OUTPUT SECTION</b>				
GTM2065(P)333.3-X.X	F(W) OR EXXX(W) OR HXXX(W)	+3.3	10.00	33
GTM2065(P)4005-X.X	F(W) OR EXXX(W) OR HXXX(W)	+5.0	8.00	40
GTM2065(P)6575.5-X.X	F(W) OR EXXX(W) OR HXXX(W)	+7.5	8.67	65
GTM2065(P)6509-X.X	F(W) OR EXXX(W) OR HXXX(W)	+9.0	7.22	65
GTM2065(P)6512-X.X	F(W) OR EXXX(W) OR HXXX(W)	+12.0	5.42	65
GTM2065(P)6515-X.X	F(W) OR EXXX(W) OR HXXX(W)	+15.0	3.61	65
GTM2065(P)6518-X.X	F(W) OR EXXX(W) OR HXXX(W)	+18.0	4.44	65
GTM2065(P)6524-X.X	F(W) OR EXXX(W) OR HXXX(W)	+24.0	2.71	65
GTM2065(P)6536-X.X	F(W) OR EXXX(W) OR HXXX(W)	+36.0	1.80	65
GTM2065(P)6548-X.X	F(W) OR EXXX(W) OR HXXX(W)	+48.0	1.36	65

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
REGISTERED

## GTM2065 AND GTM2066 SERIES-65W



**0-65 Watts, 3"X5" Open Frame, Universal Input, Single,  
Dual, Triple Output Family, Medical**



INDOOR USE ONLY



**OUTPUT VOLTAGE / CURRENT:**

MODEL NUMBER		OUTPUT VOLTAGE (VDC)	65W OUTPUT CURRENT (A) FREE AIR CONVECTION	RATED OUTPUT POWER (W)
<b>DUAL OUTPUT SECTION</b>			<b>PRELIMINARY</b>	
GTM2066(P)-330500-XX	F(W) OR EXXX(W) OR HXXX(W)	+3.3/+5.0	10.0/1.4	40
GTM2066(P)-051200-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0	10.0/1.25	65
GTM2066(P)-05N1200-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-12.0	10.0/1.25	65
GTM2066(P)-051500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+15.0	10.0/1.0	65
GT-2066(P)-05N1500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-15.0	10.0/1.0	65
GTM2066(P)-052400-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+24.0	10.0/0.62	65
GTM2066(P)-24N0500-XX	F(W) OR EXXX(W) OR HXXX(W)	+24.0/-5.0	2.29/2.0	65
GTM2066(P)-05N0500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-5.0	11.0/2.0	65
GTM2066(P)-12N1200-XX	F(W) OR EXXX(W) OR HXXX(W)	+12.0/-12.0	4.41/1.0	65
GTM2066(P)-15N1500-XX	F(W) OR EXXX(W) OR HXXX(W)	+15.0/-15.0	3.33/1.0	65
GTM2066(P)-18N1800-XX	F(W) OR EXXX(W) OR HXXX(W)	+18.0/-18.0	2.61/1.0	65
GTM2066(P)-24N2400-XX	F(W) OR EXXX(W) OR HXXX(W)	+24.0/-24.0	2.20/0.50	65
<b>TRIPLE OUTPUT SECTION</b>			<b>PRELIMINARY</b>	
GTM2066(P)-330512-XX	F(W) OR EXXX(W) OR HXXX(W)	+3.3/+5.0/+12.0	5.0/3.0/1.0	43.5
GTM2066(P)-0512N12-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0-12.0	5.0/2.3/1.0	65
GTM2066(P)-0512N05-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/-5.0	7.0/2.0/1.2	65
GTM2066(P)-051215-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/+15.0	5.0/2.0/1.0	65
GTM2066(P)-0515N15-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+15.0/-15.0	5.0/2.0/0.67	65
GTM2066(P)-051224-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/+24.0	5.8/2.0/0.50	65
GTM2066(P)-0524N12-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+24.0/-12.0	5.0/1.0/1.33	65

**MODEL NUMBER DESCRIPTION**

**GT(M)2065(P)333.3-X.X TO 6548-X.X**

**GT:** GLOBTEK SERIES

**M:** MEDICAL GRADE; - (DASH) FOR ITE GRADE

**2065:** 65W FAMILY DESIGNATOR

**P:** PASSIVE PFC VERSION; NO "P" FOR NON-PFC VERSION  
333.3 TO 6548 = 33W @ 3.3V UP TO 65W @ 48V OUTPUT POWER

**XX:** USE TO SPECIFY OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL BY SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE

**DUAL AND TRIPLE OUTPUT (GT(M)2066):** XXYYZZ DESIGNATES THE OUTPUT VOLTAGE COMBINATION.

**F(W)**

**F:** OPEN FRAME VERSION

**W:** CLASS II UNITS (NO "W" MEANS CLASS I)

**(E)XXX(W)A**

**E:** EXTENDED PCB (3X6); NO "E" MEANS STANDARD SIZE BOARD (3X5)

**XXX:** DENOTES PERFORATED ENCLOSURE AND BASE PLATE SIZE CODE WHERE XXX CAN BE FROM 000 TO 999 (MAXIMUM PERFORATED ENCLOSURE AND BASE PLATE SIZE IS 50" X 30")

**W:** CLASS II UNITS (NO "W" MEANS CLASS I)

**HXXX(W)A**

**H:** OPEN FRAME WITH CONFIGURABLE INPUT AND OUTPUT WIRE HARNESS USING UL1007/UL1015 AWG18 WIRES

**XXX:** DENOTES INPUT AND OUTPUT WIRE HARNESS LENGTH CODE WHERE XXX CAN BE FROM 000 TO 999

(MAXIMUM WIRE HARNESS LENGTH FOR INPUT CONNECTOR IS 100mm AND 200mm FOR OUTPUT CONNECTOR)

**W:** CLASS II UNITS (NO "W" MEANS CLASS I)

**NOTES:**

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) FOR 80W VERSIONS, 10CFM OF AIR FLOW DIRECTED TOWARD THE LONGER SIDE OF THE POWER SUPPLY IS REQUIRED. THERMAL TESTING FOR 80W EVALUATION WAS DONE IN A WIND TUNNEL MEASURING 35" X 6" X 2" . A FINE WIRE MESH SCREEN (3 LOCATIONS) WAS USED TO DISPERSE THE INCOMING AIR.
- 3) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 4) CONDUCTED AND RADIATED EMI WERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES. DEPENDING ON SYSTEM CONFIGURATION, ADDITIONAL FILTERING MAY BE REQUIRED.
- 5) ALL MODELS MAY REQUIRE A MINIMUM MOUNTING STANDOFF OF 0.16" (4.00mm) IN THE END USER PRODUCT.
- 6) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMI-CONDUCTOR CASE SHOULD EXCEED 130C.
- 7) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID STABILITY PROBLEM IN THE POWER SUPPLY.

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000 REGISTERED



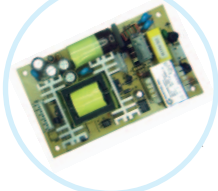
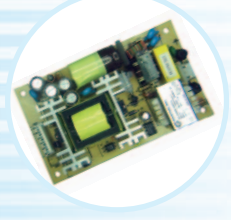
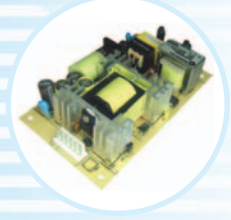
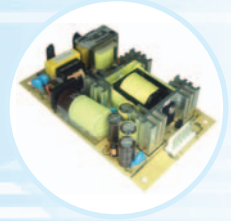
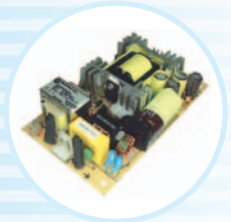
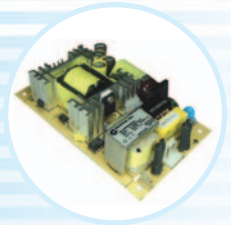
0-65 Watts, 3"X5" Open Frame, Universal Input, Single, Dual, Triple Output Family, Medical



INDOOR USE ONLY

CONFIGURATION

OPEN FRAME SWITCHING POWER SUPPLY WITH MOUNTING HOLES POSITIONED AS BELOW



OPEN FRAME CLASS I:

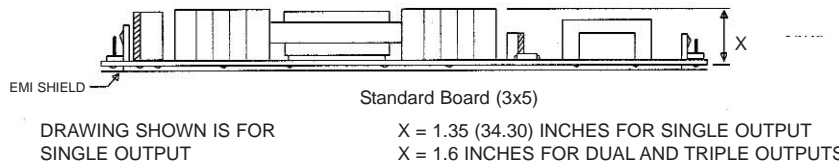
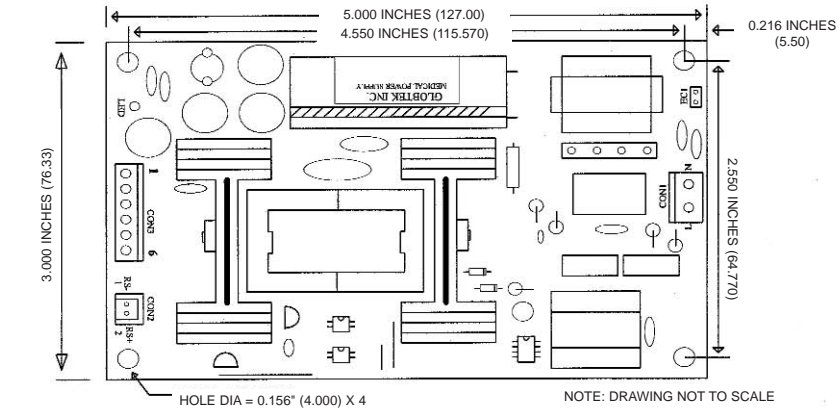
INPUT CONNECTOR (CON1)

MOLEX 3-PIN WITH CENTER PIN REMOVED  
MOLEX PN: 26-60-4030 MATES  
W/PN: 09-50-3031.

PIN 1: AC LINE, PIN 3: AC NEUTRAL  
EC1: EARTH GROUND FOR CLASS I UNITS

INPUT CONNECTOR (CON1 OPTION)

WIRE HARNESS WITH MOLEX  
HEADER PN: 09-50-3031  
WITH AWG 18 STRANDED WIRE, UL1007  
WITH CONFIGURABLE  
LENGTH UP TO 100mm.  
BLACK/BROWN FOR AC LINE;  
WHITE/BLUE FOR AC NEUTRAL;  
GREEN WITH YELLOW STRIPE  
FOR EARTH GROUND



DRAWING SHOWN IS FOR SINGLE OUTPUT

X = 1.35 (34.30) INCHES FOR SINGLE OUTPUT  
X = 1.6 INCHES FOR DUAL AND TRIPLE OUTPUTS

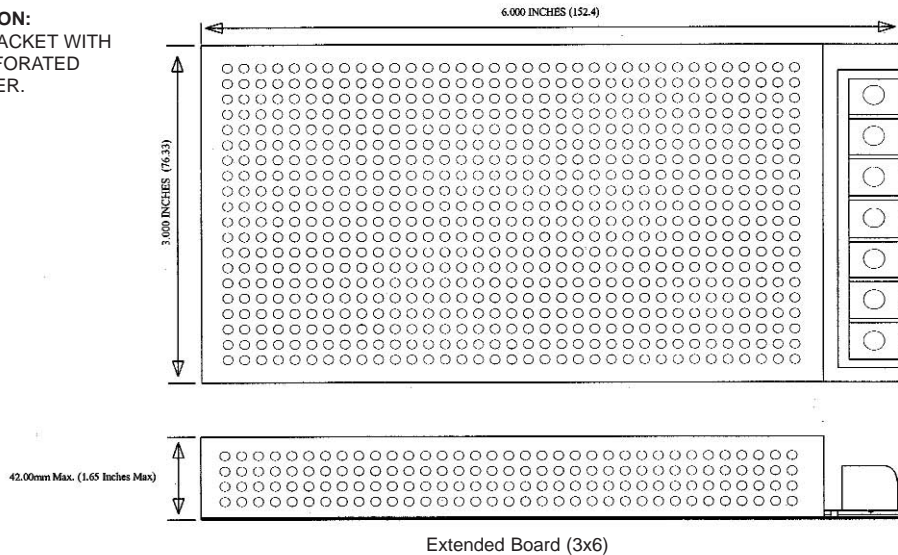
OUTPUT CONNECTOR (CON3)

MOLEX 6-PIN FRICTION LOCK HEADER, MOLEX PN: 26-60-4060, MATES WITH PN: 09-50-3061, PIN 1,2,3: COMMON, PIN 4,5,6: V+, CON2 IS REMOTE SENSE CONNECTOR, MOLEX 22-28-0020, MATES WITH MOLEX PN: 22-01-2021, PIN 1: -SENSE; PIN2: +SENSE

OUTPUT CONNECTOR (CON3) WITH WIRE HARNESS(H)

WIRE HARNESS WITH MOLEX HEADER PN: 09-50-3061, WITH AWG 18 STRANDED WIRE, UL1007 WITH CONFIGURABLE LENGTH UP TO 200mm. 3 X AWG18, RED FOR V+ 3 X AWG18 BLACK FOR COMMON, CON2 IS REMOTE SENSE CONNECTOR, MOLEX 22-28-0020 MATES WITH MOLEX PN: 22-01-2021, PIN 1: -SENSE; PIN2: +SENSE

OPTION:  
L-BRACKET WITH PERFORATED COVER.



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GT-21131 SERIES-72W

### 72 Watts, Switchmode Power Supply, Single Output, Family Desktop, Universal Input, ITE Class I

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

 INDOOR USE ONLY



#### ELECTRICAL SPECIFICATIONS:

##### INPUT VOLTAGE:

90 VAC TO 264 VAC

##### INPUT CURRENT:

≤ 1.6 A RMS AT 90 VAC INPUT

##### INPUT FREQUENCY:

47 HZ - 63 HZ

##### OUTPUT CURRENT:

NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

##### OUTPUT POWER (RATED):

72 WATTS MAX

##### OUTPUT RIPPLE (PEAK TO PEAK):

≤ LESSOR OF 1% OR 100mV

##### OUTPUT REGULATION (LINE/LOAD):

± 5 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

##### LINE REGULATION:

+ 0.5 % MAX AT FULL LOAD

##### TURN ON/ TURN OFF OVERTHOOT:

4% MAX; 500µS MAX RECOVERY TIME FOR 25% STEP LOAD

##### TURN-ON DELAY:

1 SEC MAX

##### HOLD-UP TIME:

16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

##### INRUSH CURRENT:

20 A MAX AT COLD START FOR N.A. (40A FOR EURO)

##### EFFICIENCY:

75 % TYPICAL

##### SWITCHING FREQUENCY:

100 KHZ TYPICAL

##### OVER-VOLTAGE PROTECTION:

VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE

##### OVER-CURRENT / SHORT CIRCUIT:

HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

##### OTHER PROTECTION:

INPUT FUSING

##### SAFETY APPROVALS:

UL60950, CUL TO 22.2# 950, TUV TO EN60950, PSE TO J60950  
CE CLASS I

#### DIELECTRIC WITHSTAND VOLTAGE:

1500VAC PRIMARY-SECONDARY; 1500 VAC  
PRIMARY- GROUND

#### LEAKAGE CURRENT:

≤ 3.5 mA

#### LINE SURGE:

EN 61000-4-5 LEVEL 4

#### EMI:

COMPLIES WITH EN55022 , CLASS B AND FCC PART 15  
CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH  
CONDUCTED AND RADIATED

#### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND  
EN50082-1, INCLUDING EN61000-4-2, EN61000-4-3,  
EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11,  
LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

#### MTBF:

GREATER THAN 50,000 HOURS AT 25°C AMBIENT  
TEMPERATURE

#### OPERATING TEMPERATURE:

0° C TO 40° C

#### STORAGE TEMPERATURE:

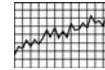
-40° C TO 80° C

#### HUMIDITY:

0% TO 90% RELATIVE HUMIDITY

#### NOTES:

1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S  
DESIGNATION RANGE, AS LONG AS OUTPUT POWER IS  
NOT EXCEEDED.
2. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 12V UP TO  
24V IN 0.1V INCREMENTS.
3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE  
DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X  
VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "I" FOR ELECTRICAL  
PERFORMANCE CURVES

#### OUTPUT VOLTAGE / CURRENT:

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER <sup>(2)</sup> (W)
GT-21131-7212			
GT-21131-7219-6.0	+13.0	0 - 5.5	0 - 72
GT-21131-7219-5.2	+13.8	0 - 5.2	0 - 72
GT-21131-7219-5.0	+14.0	0 - 5.1	0 - 72
GT-21131-7219-4.0	+15.0	0 - 4.8	0 - 72
GT-21131-7219-3.0	+16.0	0 - 4.5	0 - 72
GT-21131-7219-2.0	+17.0	0 - 4.2	0 - 72
GT-21131-7219-1.0	+18.0	0 - 4.0	0 - 72
GT-21131-7219-X.X	+19.0	0 - 3.8	0 - 72
GT-21131-7224-4.0	+20.0	0 - 3.6	0 - 72
GT-21131-7224-X.X	+24.0	0 - 3.0	0 - 72

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**72 Watts, Switchmode Power Supply, Single Output,  
Family Desktop, Universal Input, ITE Class I**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

**ENCLOSURES**

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK



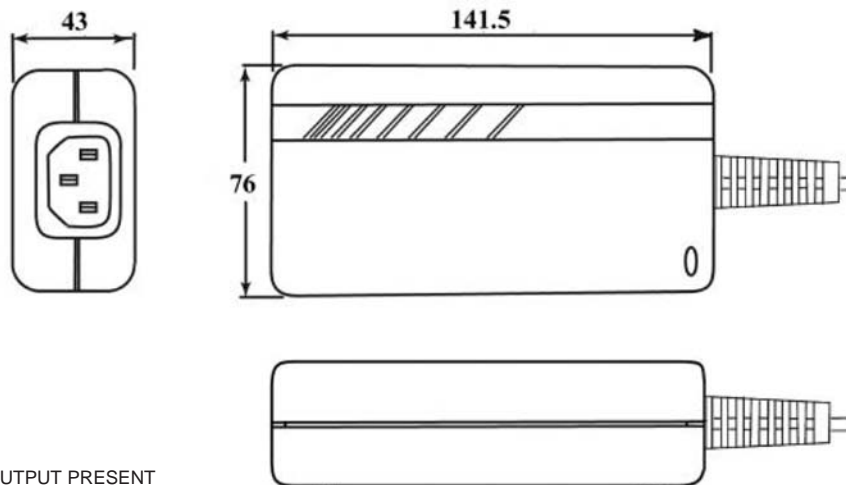
**SIZE:**

141.5 x 76 x 43 ± 1 mm

**INPUT CONNECTOR:**

**CONFIGURATION:**

CLASS 1 MODEL IEC60320 / C14,  
AC POWER RECEPTACLE WITH 3  
MALE PINS. GROUND PIN  
CONNECTED INTERNALLY TO  
DC COMMON



**INDICATOR:**  
GREEN LED, OUTPUT PRESENT



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GT-2065 AND GT-2066 SERIES-80W

### 0-80 Watts, 3"X5" Open Frame, Universal Input, Single Output Family, ITE

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 79)

 INDOOR USE ONLY



#### ELECTRICAL SPECIFICATIONS:

##### INPUT VOLTAGE:

UNIVERSAL INPUT FROM 90VAC TO 264VAC

##### INPUT CURRENT:

< 1.5A@65W and 2.5A AT 80W MAXIMUM AT 90Vac FULL LOAD

##### INPUT FREQUENCY:

47 HZ - 63 HZ

##### OUTPUT CURRENT:

NO MINIMUM LOAD REQUIRED

##### OUTPUT POWER (RATED):

65 WATTS MAX FREE AIR CONVECTION  
80 WATTS MAX 10 CFM AIR FLOW

##### OUTPUT RIPPLE (PEAK TO PEAK):

LESS THAN 1% OF OUTPUT VOLTAGE

##### OUTPUT REGULATION (LINE/LOAD):

+/-5% MEASURED AT THE OUTPUT CONNECTOR

##### LINE REGULATION:

+/- 1% TYPICAL MEASURED AT FULL LOAD

##### TURN ON/ TURN OFF OVERTHOOT:

5% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25% STEP LOAD

##### TURN-ON DELAY:

1 SEC TYPICAL

##### HOLD-UP TIME:

16mS TYPICAL @ 120VAC, 50mS TYPICAL @ 230VAC

##### INRUSH CURRENT:

20A MAXIMUM AT 120VAC AND 40A MAXIMUM AT 230VAC

##### EFFICIENCY:

75% TYPICAL AT NOMINAL INPUT AND FULL LOAD

##### SWITCHING FREQUENCY:

100 KHZ TYPICAL

##### OVER-VOLTAGE PROTECTION:

OUTPUT LIMITED BETWEEN 120 TO 150% OF NOMINAL, HICCUP MODE

##### OVER-CURRENT / SHORT CIRCUIT:

HICCUP MODE WITH AUTORECOVERY ONCE FAULT IS REMOVED. POWER SUPPLY IS OUTPUT POWER LIMITED, HICCUP MODE

##### OTHER PROTECTION:

INPUT LINE FUSING

##### SAFETY APPROVALS:

UL 60950 (THIRD EDITION), CUL TO 22.2 NO. 60950, DEMKO TO EN60950, CB REPORT

##### DIELECTRIC WITHSTAND VOLTAGE:

4242VDC (3000VAC) FROM PRIMARY TO SECONDARY  
2121VDC (1500VAC) SECONDARY TO GROUND

#### LEAKAGE CURRENT:

250uA AT 240VAC

#### LINE SURGE:

EN 61000-4-5 LEVEL 4

#### EMI:

COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED EMI.

#### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN610003-3 AND EN50082-1 INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 LEVEL 4.

#### MTBF:

100K HRS 25C FULL LOAD, NOMINAL INPUT VOLTAGE (MIL-HDBK-217F)

#### OPERATING TEMPERATURE:

-20°C TO 50°C AMBIENT TEMPERATURE

#### STORAGE TEMPERATURE:

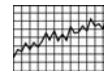
-40° C TO 80° C

#### HUMIDITY:

NON-CONDENSING; 5% TO 90% RH

#### NOTES:

1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATED RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
2. \*SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.



SEE APPENDIX "H" FOR ELECTRICAL PERFORMANCE CURVES

#### OPTIONS:

1. PASSIVE PFC VERSION
2. CLASS II VERSION
3. MEDICAL VERSION (SEE PAGE79)
4. EXTENDED PCB WITH CONFIGURABLE ENCLOSURE.
5. OPEN FRAME WITH CONFIGURABLE INPUT AND OUTPUT WIRING HARNESS.
6. L-BRACKET WITH PERFORATED COVER
7. REMOTE SENSING

#### OUTPUT VOLTAGE / CURRENT:

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	CURRENT (A) 10 CFM AIR FLOW	RATED OUTPUT POWER (W)
GT-2065(P)553.3-X.X	+3.3	16.67	55
GT-2065(P)5505-X.X	+5.0	11.00	55
GT-2065(P)707.5-X.X	+7.5	9.33	70
GT-2065(P)8009-X.X	+9.0	8.89	80
GT-2065(P)8012-X.X	+12.0	6.67	80
GT-2065(P)8015-X.X	+15.0	5.33	80
GT-2065(P)8018-X.X	+18.0	4.44	80
GT-2065(P)8024-X.X	+24.0	3.33	80
GT-2065(P)8036-X.X	+36.0	2.22	80
GT-2065(P)8048-X.X	+48.0	1.67	80

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

ISO 9001:2000  
REGISTERED**0-80 Watts, 3"X5" Open Frame, Universal Input,  
Single Output Family, ITE**

Medical Versions (See Page 79)



## OUTPUT VOLTAGE / CURRENT:

MODEL NUMBER		OUTPUT VOLTAGE (VDC)	CURRENT (A) 10 CFM AIR FLOW	RATED OUTPUT POWER (W)
<b>DUAL OUTPUT SECTION (80W VERSION)</b>			<b>(PRELIMINARY)</b>	
GT-2066(P)-330500-XX	F(W) OR EXXX(W) OR HXXX(W)	+3.3/+5.0	10.0/5.0	58
GT-2066(P)-051200-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0	10.0/2.50	80
GT-2066(P)-05N1200-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-12.0	10.0/2.50	80
GT-2066(P)-051500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+15.0	10.0/2.0	80
GT-2066(P)-05N1500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-15.0	10.0/2.0	80
GT-2066(P)-052400-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+24.0	10.0/1.25	80
GT-2066(P)-24N0500-XX	F(W) OR EXXX(W) OR HXXX(W)	+24.0/-5.0	2.92/2.0	80
GT-2066(P)-05N0500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-5.0	14.0/2.0	80
GT-2066(P)-12N1200-XX	F(W) OR EXXX(W) OR HXXX(W)	+12.0/-12.0	5.66/1.0	80
GT-2066(P)-15N1500-XX	F(W) OR EXXX(W) OR HXXX(W)	+15.0/-15.0	4.33/1.0	80
GT-2066(P)-18N1800-XX	F(W) OR EXXX(W) OR HXXX(W)	+18.0/-18.0	3.44/1.0	80
GT-2066(P)-24N2400-XX	F(W) OR EXXX(W) OR HXXX(W)	+24.0/-24.0	2.85/0.50	80
<b>TRIPLE OUTPUT SECTION (80W VERSION)</b>			<b>(PRELIMINARY)</b>	
GT-2066(P)-330512-XX	F(W) OR EXXX(W) OR HXXX(W)	+3.3/+5.0/+12.0	7.0/4.6/1.0	58
GT-2066(P)-0512N12-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0-12.0	7.0/2.7/1.0	80
GT-2066(P)-0512N05-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/-5.0	9.0/2.5/1.0	80
GT-2066(P)-051215-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/+15.0	8.0/2.0/1.0	80
GT-2066(P)-0515N15-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+15.0/-15.0	8.0/2.0/0.67	80
GT-2066(P)-051224-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/+24.0	7.6/2.5/0.6	80
GT-2066(P)-0524N12-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+24.0/-12.0	8.0/1.0/1.33	80

**MODEL NUMBER DESCRIPTION****GT(M)2065(P)553.3-X.X TO 8048-X.X****GT:** GLOBTEK SERIES**M:** MEDICAL GRADE; - (DASH) FOR ITE GRADE

2065: 65W FAMILY DESIGNATOR

**P:** PASSIVE PFC VERSION; NO "P" FOR NON-PFC VERSION**XX:** USE TO SPECIFY OUTPUT VOLTAGE DEVIATION FROM

STANDARD MODEL BY SUBTRACTING X.X VOLTS FROM

STANDARD OUTPUT VOLTAGE

DUAL AND TRIPLE OUTPUT (GT(M)2066): XXYYZZ DESIGNATES

THE OUTPUT VOLTAGE COMBINATION.

**F(W)****F:** OPEN FRAME VERSION**W:** CLASS II UNITS (NO "W" MEANS CLASS I)**(E)XXX(W)A****E:** EXTENDED PCB (3X6); NO "E" MEANS STANDARD SIZE

BOARD (3X5)

**XXX:** DENOTES PERFORATED ENCLOSURE AND BASE PLATE

SIZE CODE WHERE XXX CAN BE FROM 000 TO 999

(MAXIMUM PERFORATED ENCLOSURE AND BASE PLATE SIZE IS

50" X 30")

**W:** CLASS II UNITS (NO "W" MEANS CLASS I)**HXXX(W)A****H:** OPEN FRAME WITH CONFIGURABLE INPUT AND OUTPUT

WIRE HARNESS USING UL1007/UL1015 AWG18 WIRES

**XXX:** DENOTES INPUT AND OUTPUT WIRE HARNESS LENGTH

CODE WHERE XXX CAN BE FROM 000 TO 999

(MAXIMUM WIRE HARNESS LENGTH FOR INPUT CONNECTOR IS

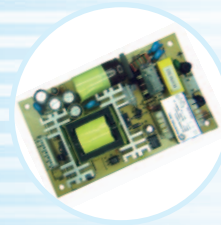
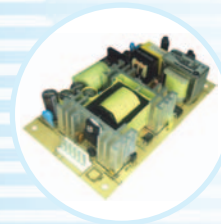
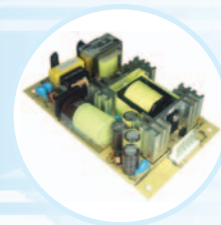
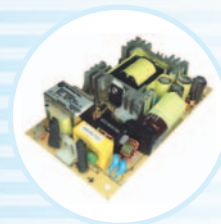
100mm AND 200mm FOR OUTPUT CONNECTOR)

**W:** CLASS II UNITS (NO "W" MEANS CLASS I)

## NOTES:

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) FOR 80W VERSIONS, 10CFM OF AIR FLOW DIRECTED TOWARD THE LONGER SIDE OF THE POWER SUPPLY IS REQUIRED. THERMAL TESTING FOR 80W EVALUATION WAS DONE IN A WIND TUNNEL MEASURING 35" X 6" X 2". A FINE WIRE MESH SCREEN (3 LOCATIONS) WAS USED TO DISPERSE THE INCOMING AIR.
- 3) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 4) CONDUCTED AND RADIATED EMI WERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES. DEPENDING ON SYSTEM CONFIGURATION, ADDITIONAL FILTERING MAY BE REQUIRED.
- 5) ALL MODELS MAY REQUIRE A MINIMUM MOUNTING STANDOFF OF 0.16" (4.00mm) IN THE END USER PRODUCT.
- 6) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMI-CONDUCTOR CASE SHOULD EXCEED 130C.
- 7) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID STABILITY PROBLEM IN THE POWER SUPPLY.

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
REGISTERED

## GT-2065 AND GT-2066 SERIES-80W

### 0-80 Watts, 3"X5" Open Frame, Universal Input, Single Output Family, ITE

Medical Versions (See Page 79)



 INDOOR USE ONLY



#### CONFIGURATION

OPEN FRAME SWITCHING POWER SUPPLY WITH MOUNTING HOLES POSITIONED AS BELOW

#### OUTPUT CONNECTOR (CON1)

MOLEX 6-PIN FRICTION LOCK HEADER, MOLEX PN: 26-60-4060, MATES WITH PN: 09-50-3061, PIN 1,2,3: COMMON, PIN 4,5,6: V+, CON2 IS REMOTE SENSE CONNECTOR, MOLEX 22-28-0020, MATES WITH MOLEX PN: 22-01-2021, PIN 1: -SENSE; PIN2: +SENSE

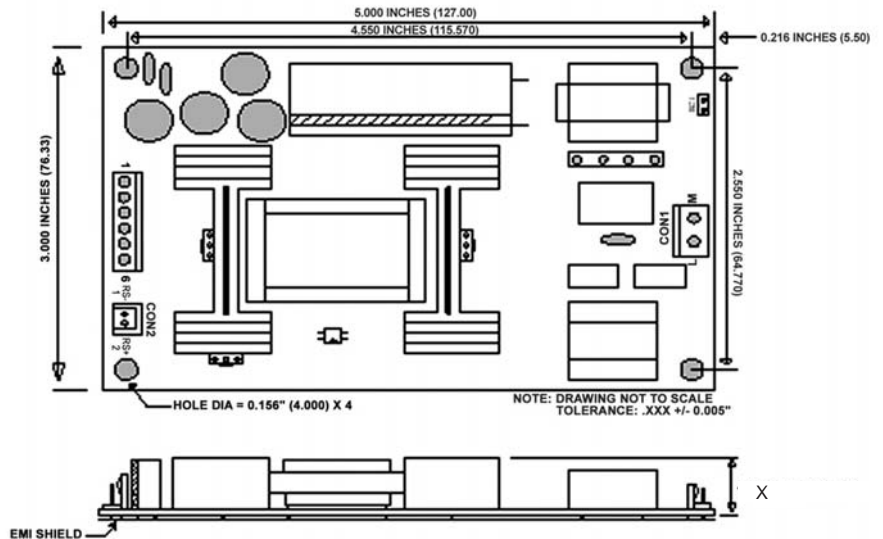
#### OUTPUT CONNECTOR (CON2)

WIRE HARNESS WITH MOLEX HEADER PN: 09-50-3061, WITH AWG 18 STRANDED WIRE, UL1007 WITH CONFIGURABLE LENGTH UP TO 200mm. 3 X AWG18, RED FOR V+ 3 X AWG18 BLACK FOR COMMON, CON2 IS REMOTE SENSE CONNECTOR, MOLEX 22-28-0020 MATES WITH MOLEX PN: 22-01-2021, PIN 1: -SENSE; PIN2: +SENSE

#### OPEN FRAME CLASS I: T3

**INPUT CONNECTOR (CON1)**  
MOLEX 3-PIN WITH  
CENTER PIN REMOVED  
MOLEX PN: 26-60-4030 MATES  
W/ PIN 1: AC LINE, PN: 09-50-3031,  
PIN 3: AC NEUTRAL  
EC1: EARTH GROUND FOR  
CLASS I UNITS

**INPUT CONNECTOR (CON2)**  
WIRE HARNESS WITH MOLEX  
HEADER PN: 09-50-3031  
WITH AWG 18 STRANDED  
WIRE, UL1007 WITH  
CONFIGURABLE  
LENGTH UP TO 100mm.  
BLACK/BROWN FOR AC LINE;  
WHITE/BLUE FOR AC NEUTRAL;  
GREEN WITH YELLOW STRIPE  
FOR EARTH GROUND



X = 1.3 INCHES FOR SINGLE OUTPUT  
X = 1.6 INCHES FOR DUAL AND TRIPLE OUTPUTS

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED**0-80 Watts, 3"X5" Open Frame, Universal Input,  
Single Output Family, Medical****ELECTRICAL SPECIFICATIONS:****INPUT VOLTAGE:**

UNIVERSAL INPUT FROM 90VAC TO 264VAC

**INPUT CURRENT:**

&lt; 1.5A@65W and 2.5A AT 80W MAXIMUM AT 90Vac FULL LOAD

**INPUT FREQUENCY:**

47 HZ - 63 HZ

**OUTPUT CURRENT:**

NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**

65 WATTS MAX FREE AIR CONVECTION

80 WATTS MAX 10 CFM AIR FLOW

**OUTPUT RIPPLE (PEAK TO PEAK):**

LESS THAN 1% OF OUTPUT VOLTAGE

**OUTPUT REGULATION (LINE/LOAD):**

+/-5% MEASURED AT THE OUTPUT CONNECTOR

**LINE REGULATION:**

+/- 1% TYPICAL MEASURED AT FULL LOAD

**TURN ON/ TURN OFF OVERTHOOT:**5% MAXIMUM, 1mS TYPICAL RECOVERY TIME FOR 25%  
STEP LOAD**TURN-ON DELAY:**

1 SEC TYPICAL

**HOLD-UP TIME:**

16mS TYPICAL @ 120VAC, 50mS TYPICAL @ 230VAC

**INRUSH CURRENT:**

20A MAXIMUM AT 120VAC AND 40A MAXIMUM AT 230VAC

**EFFICIENCY:**

75% TYPICAL AT NOMINAL INPUT AND FULL LOAD

**SWITCHING FREQUENCY:**

100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**OUTPUT LIMITED BETWEEN 120 TO 150% OF NOMINAL,  
HICCUP MODE**OVER-CURRENT / SHORT CIRCUIT:**HICCUP MODE WITH AUTORECOVERY ONCE FAULT  
IS REMOVED. POWER SUPPLY IS OUTPUT POWER LIMITED,  
HICCUP MODE**OTHER PROTECTION:**

INPUT LINE FUSING

**SAFETY APPROVALS:**UL 60950 (THIRD EDITION), CUL TO 22.2 NO. 60950, DEMKO  
TO EN60950, CB REPORT**DIELECTRIC WITHSTAND VOLTAGE:**5656VDC (400VAC) FROM PRIMARY TO SECONDARY  
2121VDC (1500VAC) SECONDARY TO GROUND**LEAKAGE CURRENT:**

250uA AT 240VAC

**LINE SURGE:**

EN 61000-4-5 LEVEL 4

**EMI:**COMPLIES WITH EN55011 CLASS B AND FCC PART 15 CLASS  
B WHEN TESTED WITH RESISTIVE LOAD, BOTH CONDUCTED  
AND RADIATED EMI.**CE MARK:**TESTED TO COMPLY WITH EN61000-3-2 EN61000-3 AND  
EN50082-1 INCLUDING EN61000-4-2 (SYSTEM LEVEL),  
EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6,  
EN61000-4-11 LEVEL 4.**MTBF:**100K HRS 25C FULL LOAD , NOMINAL INPUT VOLTAGE  
(MIL-HDBK-217F)**OPERATING TEMPERATURE:**

-20°C TO 50°C AMBIENT TEMPERATURE

**STORAGE TEMPERATURE:**

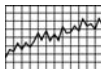
-40° C TO 80° C

**HUMIDITY:**

NON-CONDENSING; 5% TO 90% RH

**NOTES:**

1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S DESIGNATED RANGE, AS LONG AS OUTPUT POWER IS NOT EXCEEDED.
2. \*SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO 48V IN 0.1V INCREMENTS.
3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X VOLTS FROM STANDARD OUTPUT VOLTAGE.

SEE APPENDIX "H" FOR ELECTRICAL  
PERFORMANCE CURVES**OPTIONS:**

1. PASSIVE PFC VERSION
2. CLASS II VERSION
3. MEDICAL VERSION (SEE PAGE??)
4. EXTENDED PCB WITH CONFIGURABLE ENCLOSURE.
5. OPEN FRAME WITH CONFIGURABLE INPUT AND OUTPUT WIRING HARNESS.
6. L-BRACKET WITH PERFORATED COVER
7. REMOTE SENSING

**OUTPUT VOLTAGE / CURRENT:**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	CURRENT (A) 10 CFM AIR FLOW	RATED OUTPUT POWER (W)
GTM2065(P)553.3-X.X	+3.3	16.67	55
GTM2065(P)5505-X.X	+5.0	11.00	55
GTM2065(P)707.5-X.X	+7.5	9.33	70
GTM2065(P)8009-X.X	+9.0	8.89	80
GTM2065(P)8012-X.X	+12.0	6.67	80
GTM2065(P)8015-X.X	+15.0	5.33	80
GTM2065(P)8018-X.X	+18.0	4.44	80
GTM2065(P)8024-X.X	+24.0	3.33	80
GTM2065(P)8036-X.X	+36.0	2.22	80
GTM2065(P)8048-X.X	+48.0	1.67	80

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GTM2065 AND GTM2066 SERIES-80W



**0-80 Watts, 3"X5" Open Frame, Universal Input,  
Single Output Family, Medical**



**OUTPUT VOLTAGE / CURRENT:**

MODEL NUMBER		OUTPUT VOLTAGE (VDC)	CURRENT (A) 10 CFM AIR FLOW	RATED OUTPUT POWER (W)
<b>DUAL OUTPUT SECTION (80W VERSION) (PRELIMINARY)</b>				
GTM2066(P)-330500-XX	F(W) OR EXXX(W) OR HXXX(W)	+3.3/+5.0	10.0/5.0	58
GTM2066(P)-051200-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0	10.0/2.50	80
GTM2066(P)-05N1200-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-12.0	10.0/2.50	80
GTM2066(P)-051500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+15.0	10.0/2.0	80
GTM2066(P)-05N1500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-15.0	10.0/2.0	80
GTM2066(P)-052400-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+24.0	10.0/1.25	80
GTM2066(P)-24N0500-XX	F(W) OR EXXX(W) OR HXXX(W)	+24.0/-5.0	2.92/2.0	80
GTM2066(P)-05N0500-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/-5.0	14.0/2.0	80
GTM2066(P)-12N1200-XX	F(W) OR EXXX(W) OR HXXX(W)	+12.0/-12.0	5.66/1.0	80
GTM2066(P)-15N1500-XX	F(W) OR EXXX(W) OR HXXX(W)	+15.0/-15.0	4.33/1.0	80
GTM2066(P)-18N1800-XX	F(W) OR EXXX(W) OR HXXX(W)	+18.0/-18.0	3.44/1.0	80
GTM2066(P)-24N2400-XX	F(W) OR EXXX(W) OR HXXX(W)	+24.0/-24.0	2.85/0.50	80
<b>TRIPLE OUTPUT SECTION (80W VERSION) (PRELIMINARY)</b>				
GTM2066(P)-330512-XX	F(W) OR EXXX(W) OR HXXX(W)	+3.3/+5.0/+12.0	7.0/4.6/1.0	58
GTM2066(P)-0512N12-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0-12.0	7.0/2.7/1.0	80
GTM2066(P)-0512N05-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/-5.0	9.0/2.5/1.0	80
GTM2066(P)-051215-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/+15.0	8.0/2.0/1.0	80
GTM2066(P)-0515N15-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+15.0/-15.0	8.0/2.0/0.67	80
GTM2066(P)-051224-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+12.0/+24.0	7.6/2.5/0.6	80
GTM2066(P)-0524N12-XX	F(W) OR EXXX(W) OR HXXX(W)	+5.0/+24.0/-12.0	8.0/1.0/1.33	80

### MODEL NUMBER DESCRIPTION

**GT(M)2065(P)553.3-X.X TO 8048-X.X**

**GT:** GLOBTEK SERIES

**M:** MEDICAL GRADE; - (DASH) FOR ITE GRADE

2065: 65W FAMILY DESIGNATOR

**P:** PASSIVE PFC VERSION; NO "P" FOR NON-PFC VERSION

553.3 TO 8048 = 55W @ 3.3V UP TO 80W @ 48V OUTPUT POWER

**XX:** USE TO SPECIFY OUTPUT VOLTAGE DEVIATION FROM

STANDARD MODEL BY SUBTRACTING X.X VOLTS FROM

STANDARD OUTPUT VOLTAGE

DUAL AND TRIPLE OUTPUT (GT(M)2066): XXYYZZ DESIGNATES

THE OUTPUT VOLTAGE COMBINATION.

**F(W)**

**F:** OPEN FRAME VERSION

**W:** CLASS II UNITS (NO "W" MEANS CLASS I)

**(E)XXX(W)A**

**E:** EXTENDED PCB (3X6); NO "E" MEANS STANDARD SIZE BOARD (3X5)

**XXX:** DENOTES PERFORATED ENCLOSURE AND BASE PLATE SIZE CODE WHERE XXX CAN BE FROM 000 TO 999 (MAXIMUM PERFORATED ENCLOSURE AND BASE PLATE SIZE IS 50" X 30")

**W:** CLASS II UNITS (NO "W" MEANS CLASS I)

**HXXX(W)A**

**H:** OPEN FRAME WITH CONFIGURABLE INPUT AND OUTPUT WIRE HARNESS USING UL1007/UL1015 AWG18 WIRES

**XXX:** DENOTES INPUT AND OUTPUT WIRE HARNESS LENGTH CODE WHERE XXX CAN BE FROM 000 TO 999

(MAXIMUM WIRE HARNESS LENGTH FOR INPUT CONNECTOR IS 100mm AND 200mm FOR OUTPUT CONNECTOR)

**W:** CLASS II UNITS (NO "W" MEANS CLASS I)

### NOTES:

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) FOR 80W VERSIONS, 10CFM OF AIR FLOW DIRECTED TOWARD THE LONGER SIDE OF THE POWER SUPPLY IS REQUIRED. THERMAL TESTING FOR 80W EVALUATION WAS DONE IN A WIND TUNNEL MEASURING 35" X 6" X 2". A FINE WIRE MESH SCREEN (3 LOCATIONS) WAS USED TO DISPERSE THE INCOMING AIR.
- 3) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TANTALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 4) CONDUCTED AND RADIATED EMI WERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES. DEPENDING ON SYSTEM CONFIGURATION, ADDITIONAL FILTERING MAY BE REQUIRED.
- 5) ALL MODELS MAY REQUIRE A MINIMUM MOUNTING STANDOFF OF 0.16" (4.00mm) IN THE END USER PRODUCT.
- 6) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMI-CONDUCTOR CASE SHOULD EXCEED 130C.
- 7) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID STABILITY PROBLEM IN THE POWER SUPPLY.

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



0-80 Watts, 3"X5" Open Frame, Universal Input, Single Output Family, Medical



CONFIGURATION

OPEN FRAME SWITCHING POWER SUPPLY WITH MOUNTING HOLES POSITIONED AS BELOW

OUTPUT CONNECTOR (CON1)

MOLEX 6-PIN FRICTION LOCK HEADER, MOLEX PN: 26-60-4060, MATES WITH PN: 09-50-3061, PIN 1,2,3: COMMON, PIN 4,5,6: V+, CON2 IS REMOTE SENSE CONNECTOR, MOLEX 22-28-0020, MATES WITH MOLEX PN: 22-01-2021, PIN 1: -SENSE; PIN2: +SENSE

OUTPUT CONNECTOR (CON2)

WIRE HARNESS WITH MOLEX HEADER PN: 09-50-3061, WITH AWG 18 STRANDED WIRE, UL1007 WITH CONFIGURABLE LENGTH UP TO 200mm. 3 X AWG18, RED FOR V+ 3 X AWG18 BLACK FOR COMMON, CON2 IS REMOTE SENSE CONNECTOR, MOLEX 22-28-0020 MATES WITH MOLEX PN: 22-01-2021, PIN 1: -SENSE; PIN2: +SENSE



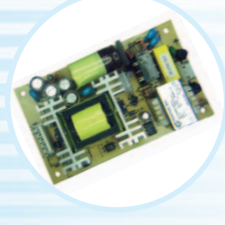
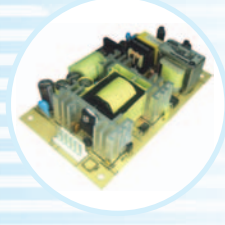
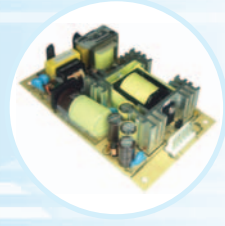
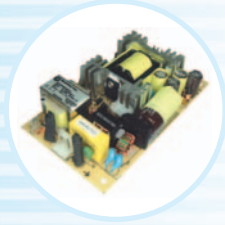
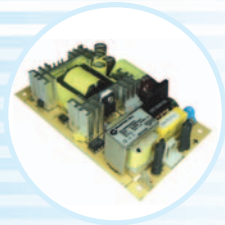
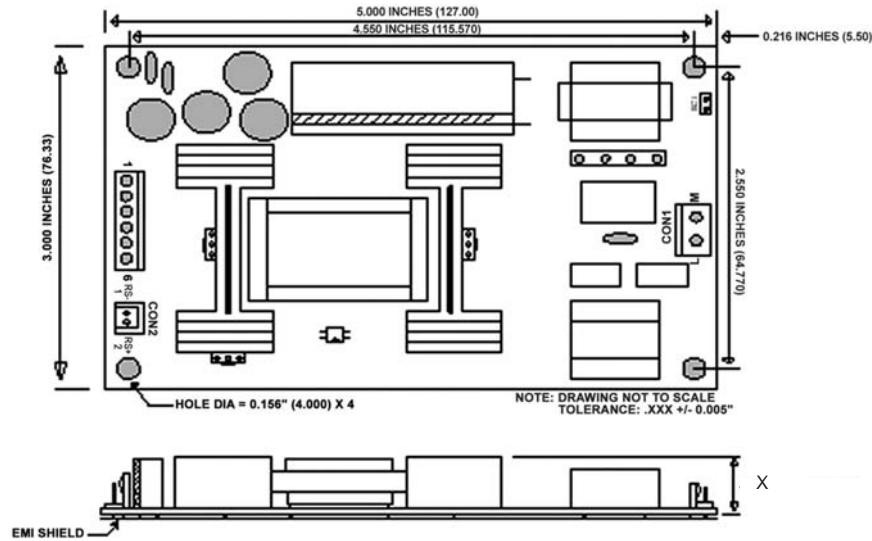
OPEN FRAME CLASS I: T3

INPUT CONNECTOR (CON1)

MOLEX 3-PIN WITH CENTER PIN REMOVED MOLEX PN: 26-60-4030 MATES W/ PIN 1: AC LINE, PN: 09-50-3031, PIN 3: AC NEUTRAL EC1: EARTH GROUND FOR CLASS I UNITS

INPUT CONNECTOR (CON2)

WIRE HARNESS WITH MOLEX HEADER PN: 09-50-3031 WITH AWG 18 STRANDED WIRE, UL1007 WITH CONFIGURABLE LENGTH UP TO 100mm. BLACK/BROWN FOR AC LINE; WHITE/BLUE FOR AC NEUTRAL; GREEN WITH YELLOW STRIPE FOR EARTH GROUND





ISO 9001:2000  
REGISTERED

## GT-9100 SERIES-100W

### 100 Watts, DeskTop, Universal Input, Single Output Family, ITE Switchmodes

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 84)

 INDOOR USE ONLY

PRELIMINARY



#### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE:**  
100 VAC TO 240 VAC

**INPUT CURRENT:**  
6.0 A AT 90 VAC AND 3.0A AT 240 VAC MAXIMUM

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD CURRENT REQUIRED TO MAINTAIN REGULATION

**OUTPUT POWER (RATED):**  
100 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
LESS THAN 1% OF THE NOMINAL OUTPUT VOLTAGE

**OUTPUT REGULATION (LINE/LOAD):**  
± 2% MEASURED AT OUTPUT CONNECTOR

**LINE REGULATION:**  
± 0.5 % OUTPUT MEASURED AT OUTPUT CONNECTOR

**REMOTE SENSING (OPTION):**  
REMOTE SENSE OPTION FOR TIGHT OUTPUT REGULATION.

**TURN ON/ TURN OFF OVERTHOOT:**  
4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
20mS TYPICAL AT 120VAC, 70mS TYPICAL AT 230VAC

**INRUSH CURRENT:**  
40A MAXIMUM AT 120VAC AND 60A MAXIMUM AT 230VAC

**EFFICIENCY:**  
75 % TYPICAL

**POWER FACTOR:**  
0.8 TYP., CURRENT SHAPER PFC FRONT STAGE

**SWITCHING FREQUENCY:**  
200 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
OUTPUT LIMITED BETWEEN 130 TO 150% OF NOMINAL LOAD, HICCUP MODE

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP MODE WITH AUTORECOVERY ONCE FAULT HAS BEEN REMOVED

**OTHER PROTECTION:**  
DUAL FUSING, LINE AND NEUTRAL FOR MEDICAL GRADE AND LINE FUSING FOR ITE GRADE

**SAFETY APPROVALS (PENDING):**  
EN60950, UL60950, EN60601 AND UL60601, PSE TO J60950  
CB REPORT AND CE MARK

**DIELECTRIC WITHSTAND VOLTAGE:**  
4242VDC (3000VAC) PRIMARY-SECONDARY;  
2121VDC (1500VAC) PRIMARY- GROUND

#### LEAKAGE CURRENT:

≤ 300uA AT 240VAC

#### LINE SURGE:

EN 61000-4-5 LEVEL 4

#### EMI:

COMPLIES WITH EN55022 CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

#### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

#### MTBF:

100K HRS, ROOM TEMPERATURE, GROUND BENIGN

#### OPERATING TEMPERATURE:

0° TO 40°C

#### STORAGE TEMPERATURE:

-40°C TO 85°C

#### HUMIDITY:

NON-CONDENSING; 5% TO 90% RH

#### MODEL NUMBER CODE:

GT: INTERNAL CODE;  
-: ITE MODEL, UL 60950  
(P): POWER FACTOR CORRECTION, OPTIONAL  
0302.5 TO 10048: OUTPUT POWER / OUTPUT VOLTAGE  
-: CLASS I PROTECTIVE GROUND OR W: CLASS II, DOUBLE INSULATED

#### NOTES:

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 3) CONDUCTED AND RADIATED EMI WHERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES.
- 4) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMICONDUCTOR CASE SHOULD EXCEED 130C
- 5) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID OSCILLATION OF THE POWER SUPPLY.
- 6) ALL MEASUREMENTS ARE PERFORMED AT 25C ROOM AMBIENT AND ARE TYPICAL.
- 7) GLOBTEK PRODUCTS ARE NOT AUTHORIZED TO BE USED AS MISSION CRITICAL COMPONENTS IN LIFE SUPPORT HAZARDOUS ENVIRONMENT, NUCLEAR OR AIRCRAFT APPLICATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE CEO OF GLOBTEK INC.

#### OUTPUT VOLTAGE / CURRENT:

CLASS I MODELS, PROTECTIVE GROUND

CLASS II MODELS, DOUBLE INSULATED

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-9100P-0302.5	+2.50	0 - 15.00	0 - 30
GT-9100P-0663.3-X.X	+3.30	0 - 15.00	0 - 66
GT-9100P-10005-X.X	+5.00	0 - 20.00	0 - 100
GT-9100P-10006-X.X	+6.00	0 - 16.67	0 - 100
GT-9100P-1007.5-X.X	+7.50	0 - 13.33	0 - 100
GT-9100P-10009-X.X	+9.00	0 - 8.33	0 - 100
GT-9100P-10012-X.X	+12.0	0 - 8.34	0 - 100
GT-9100P-10013.5-X.X	+13.50	0 - 7.41	0 - 100
GT-9100P-10013.8-X.X	+13.80	0 - 7.25	0 - 100

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**100 Watts, DeskTop, Universal Input, Single Output Family, ITE Switchmodes**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 84)



MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-9100P-10015-X.X	+15.0	0 - 6.67	0 - 100
GT-9100P-10018-X.X	+18.0	0 - 5.56	0 - 100
GT-9100P-10024-X.X	+24.0	0 - 4.17	0 - 100
GT-9100P-10036-X.X	+36.0	0 - 2.78	0 - 100
GT-9100P-10048-X.X	+48.0	0 - 2.08	0 - 100

**ENCLOSURES**

HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK



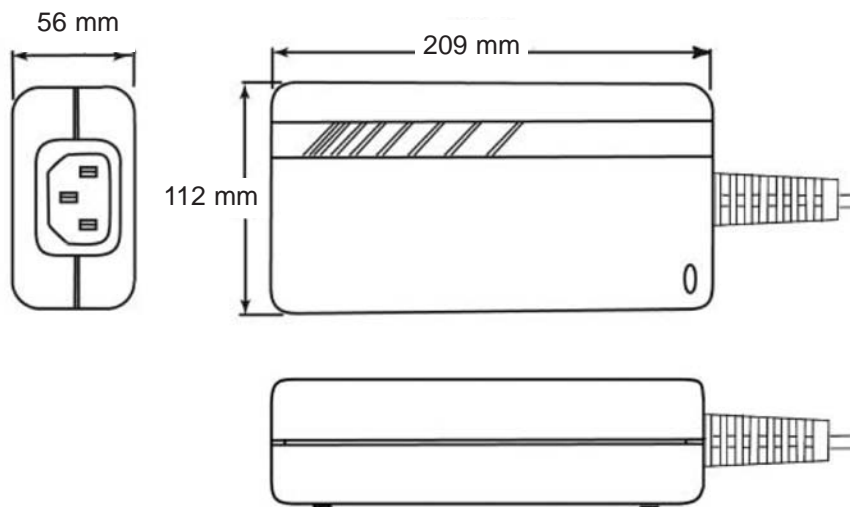
**SIZE:**

209 x 112 x 56 + 1 mm

**INPUT CONNECTOR:**

CONFIGURATION:

CLASS 1 MODEL IEC60320 / C14,  
AC POWER RECEPTACLE WITH 3  
MALE PINS. GROUND PIN  
CONNECTED INTERNALLY TO  
DC COMMON



**INDICATOR:**  
GREEN LED, OUTPUT PRESENT

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

## GTM9100 SERIES-100W



### 100 Watts, Desktop, Universal Input, Single Output Family, Medical Grade Switchmodes

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

PRELIMINARY



INDOOR USE ONLY



#### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE:**  
100 VAC TO 240 VAC

**INPUT CURRENT:**  
6.0 A AT 90 VAC AND 3.0A AT 240 VAC MAXIMUM

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD CURRENT REQUIRED TO MAINTAIN REGULATION

**OUTPUT POWER (RATED):**  
100 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
LESS THAN 1% OF THE NOMINAL OUTPUT VOLTAGE

**OUTPUT REGULATION (LINE/LOAD):**  
± 2% MEASURED AT OUTPUT CONNECTOR

**LINE REGULATION:**  
± 0.5 % OUTPUT MEASURED AT OUTPUT CONNECTOR

**REMOTE SENSING (OPTION):**  
REMOTE SENSE OPTION FOR TIGHT OUTPUT REGULATION.

**TURN ON/ TURN OFF OVERTHOOT:**  
4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
20mS TYPICAL AT 120VAC, 70mS TYPICAL AT 230VAC

**INRUSH CURRENT:**  
40A MAXIMUM AT 120VAC AND 60A MAXIMUM AT 230VAC

**EFFICIENCY:**  
75 % TYPICAL

**POWER FACTOR:**  
0.8 TYP., CURRENT SHAPER PFC FRONT STAGE

**SWITCHING FREQUENCY:**  
200 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
OUTPUT LIMITED BETWEEN 130 TO 150% OF NOMINAL LOAD, HICCUP MODE

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP MODE WITH AUTORECOVERY ONCE FAULT HAS BEEN REMOVED

**OTHER PROTECTION:**  
DUAL FUSING, LINE AND NEUTRAL FOR MEDICAL GRADE AND LINE FUSING FOR ITE GRADE

**SAFETY APPROVALS (PENDING):**  
EN60601.1 AND UL60601.1  
CB REPORT AND CE MARK, PSE TO J60950

**DIELECTRIC WITHSTAND VOLTAGE:**  
5656VDC (4000VAC) PRIMARY-SECONDARY;  
2121VDC (1500VAC) PRIMARY- GROUND

**LEAKAGE CURRENT:**  
≤ 300uA AT 240VAC

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

**EMI:**  
COMPLIES WITH EN55011, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

**CE MARK:**  
TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**  
100K HRS, ROOM TEMPERATURE, GROUND BENIGN

**OPERATING TEMPERATURE:**  
0° TO 40°C

**STORAGE TEMPERATURE:**  
-40°C TO 85°C

**HUMIDITY:**  
NON-CONDENSING; 5% TO 90% RH

**MODEL NUMBER CODE:**  
GTM: INTERNAL CODE;  
(P): POWER FACTOR CORRECTION, OPTIONAL  
0302.5 TO 10048: OUTPUT POWER / OUTPUT VOLTAGE  
-: CLASS I PROTECTIVE GROUND OR W: CLASS II, DOUBLE INSULATED

**NOTES:**

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 3) CONDUCTED AND RADIATED EMI WHERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES.
- 4) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMICONDUCTOR CASE SHOULD EXCEED 130C
- 5) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID OSCILLATION OF THE POWER SUPPLY.
- 6) ALL MEASUREMENTS ARE PERFORMED AT 25C ROOM AMBIENT AND ARE TYPICAL.
- 7) GLOBTEK PRODUCTS ARE NOT AUTHORIZED TO BE USED AS MISSION CRITICAL COMPONENTS IN LIFE SUPPORT HAZARDOUS ENVIRONMENT, NUCLEAR OR AIRCRAFT APPLICATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE CEO OF GLOBTEK INC.
- 8) CONTENTS OF THIS DOCUMENTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

**OUTPUT VOLTAGE / CURRENT:**  
CLASS I MODELS, PROTECTIVE GROUND  
CLASS II MODELS, DOUBLE INSULATED

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM9100P-0302.5	+2.50	0 - 15.00	0 - 30
GTM9100P-0663.3-X.X	+3.30	0 - 15.00	0 - 66
GTM9100P-10005-X.X	+5.00	0 - 20.00	0 - 100
GTM9100P-10006-X.X	+6.00	0 - 16.67	0 - 100
GTM9100P-1007.5-X.X	+7.50	0 - 13.33	0 - 100
GTM9100P-10009-X.X	+9.00	0 - 8.33	0 - 100
GTM9100P-10012-X.X	+12.0	0 - 8.34	0 - 100
GTM9100P-10013.5-X.X	+13.50	0 - 7.41	0 - 100
GTM9100P-10013.8-X.X	+13.80	0 - 7.25	0 - 100

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
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**100 Watts, DeskTop, Universal Input, Single Output Family,  
Medical Grade Switchmodes**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

**OUTPUT VOLTAGE / CURRENT:  
CLASS I MODELS, PROTECTIVE GROUND  
CLASS II MODELS, DOUBLE INSULATED**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM9100P-10015-X.X	+15.0	0 - 6.67	0 - 100
GTM9100P-10018-X.X	+18.0	0 - 5.56	0 - 100
GTM9100P-10024-X.X	+24.0	0 - 4.17	0 - 100
GTM9100P-10036-X.X	+36.0	0 - 2.78	0 - 100
GTM9100P-10048-X.X	+48.0	0 - 2.08	0 - 100

**ENCLOSURES**

UPPER HOUSING: HIGH IMPACT PLASTIC, 94V0 POLYCARBONATE, NON-VENTED, COLOR BLACK  
LOWER HOUSING: HIGH IMPACT PLASTIC 94V0 POLYCARBONATE, NON- VENTED, COLOR BLACK



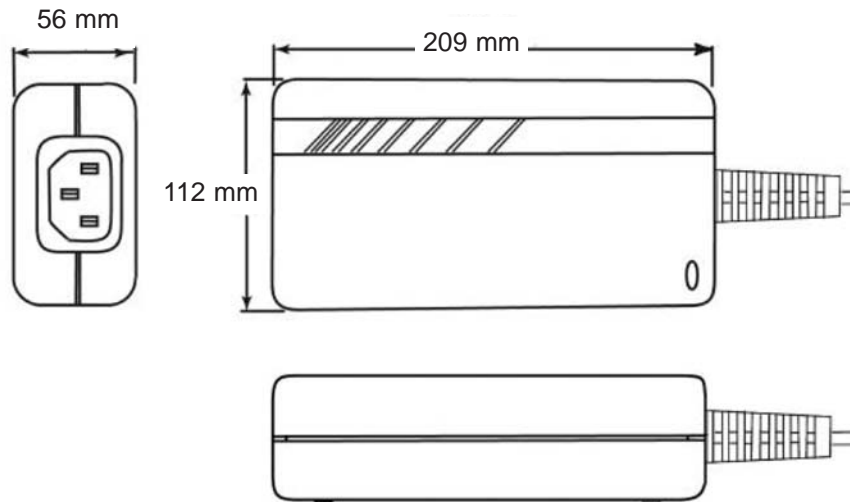
**SIZE:**

209 x 112 x 56 + 1 mm

**INPUT CONNECTOR:**

CONFIGURATION:

CLASS 1 MODEL IEC60320 / C14,  
AC POWER RECEPTACLE WITH 3  
MALE PINS. GROUND PIN  
CONNECTED INTERNALLY TO DC



**INDICATOR:**  
GREEN LED, OUTPUT PRESENT

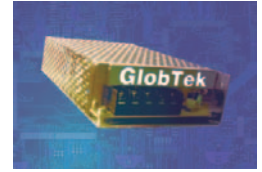




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## GT-100 SERIES-100W

**100 Watts, Switchmode Power Supply,  
Single Output, Enclosed, Universal Input**



### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE:**

85 VAC TO 264 VAC SELECTED BY SWITCH

**INPUT CURRENT:**

< 1.6 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**

47 HZ - 63 HZ

**OUTPUT CURRENT:**

NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**

100 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**

100 mV (P-P) MODEL DEPENDENT

**OUTPUT REGULATION (LINE/LOAD):**

0.2% - 0.5% MODEL + OUTPUT DEPENDENT

**LINE REGULATION:**

**TURN ON / TURN OFF OVERTHOOT:**

4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**

1 SEC MAX

**HOLD-UP TIME:**

10 mSEC MIN AT NOMINAL INPUT 115 VAC AND FULL LOAD

**INRUSH CURRENT:**

30 A MAX AT COLD START FOR N.A. (60A FOR EURO),  
MODEL DEPENDENT

**EFFICIENCY:**

70% - 84 % TYPICAL, MODEL + OUTPUT DEPENDENT

**SWITCHING FREQUENCY:**

100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**

VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE  
FOR MAIN OUTPUT

**OVER-CURRENT / SHORT CIRCUIT:**

HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

**OTHER PROTECTION:**

INPUT FUSING

**SAFETY APPROVALS:**

UL 1012, UL 60950 / 1950, CUL TO 22.2 # 234, 950, TUV TO  
EN 60950, CE CLASS I

**DIELECTRIC WITHSTAND VOLTAGE:**

1500VAC PRIMARY-SECONDARY; 1500 VAC PRIMARY-  
GROUND 500 VAC SECONDARY - GROUND

**LEAKAGE CURRENT:**

< 1 mA/240VAC

**LINE SURGE:**

EN 61000-4-5 LEVEL 4

**EMI:**

COMPLIES WITH EN55022, 1 CLASS B AND FCC PART 15  
CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH  
CONDUCTED AND RADIATED

**CE MARK:**

TESTED TO COMPLY WITH EN61000-3-2, EN61000-3-3 AND  
EN50082-1 INCLUDING EN61000-4-2, EN61000-4-3, EN61000-  
4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 LEVEL 4, UNIT  
IS ELIGIBLE FOR CE MARK.

**MTBF:**

GREATER THAN 50,000 HOURS AT 25°C AMBIENT  
TEMPERATURE

**OPERATING TEMPERATURE:**

0°C TO 45° C, DERATE LINEARY TO 60% OUTPUT POWER  
AT 60°C

**STORAGE TEMPERATURE:**

-40°C TO 80° C

**HUMIDITY:**

0% TO 90% RELATIVE HUMIDITY

### OUTPUT VOLTAGE / CURRENT:

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	RATED OUTPUT POWER (W)
GT-100-3	+ 3 +/-2%	20	0 - 100 W
GT-100-5	+ 5 +/-2%	20	0 - 100 W
GT-100-7.5	+ 7.5 +/-1%	13.6	0 - 100 W
GT-100-10	+ 10 +/-1%	10	0 - 100 W
GT-100-12	+ 12 +/-1%	8.5	0 - 100 W
GT-100-15	+ 15 +/-1%	6.7	0 - 100 W
GT-100-18	+ 18 +/-1%	5.6	0 - 100 W
GT-100-24	+ 24 +/-1%	4.5	0 - 100 W
GT-100-27	+ 27 +/-1%	3.7	0 - 100 W
GT-100-48	+ 48 +/-1%	2	0 - 100 W

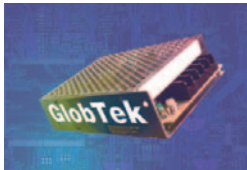
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100 Watts, Switchmode Power Supply,  
Single Output, Enclosed, Universal Input



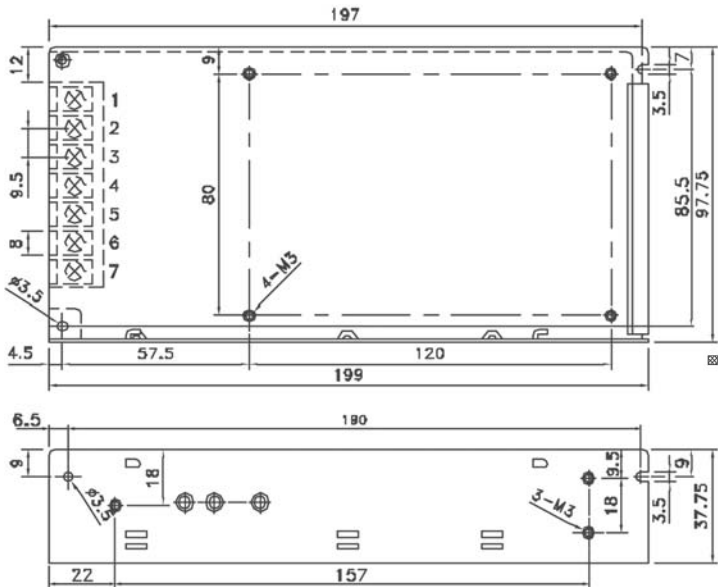
ENCLOSURES



SIZE:

199 X 98 X 38 ± 1 MM

CONFIGURATION: ENCLOSED SWITCHING  
POWER SUPPLY, AL. ALLOY 3003 OR  
EQUIVALENT, GOLD IRRIDITE, CHEM.  
TREATED FINISH,, CHASSIS: "U" CHANNEL,  
WITH (7) MOUNTING METRIC INSERT M3,  
AS SHOWN BELOW: (4) BOTTOM; (3)  
RIGHT SIDE. COVER: "L" SHAPE WITH  
HOLES SCREENED PATTERN FOR  
NATURAL CONVECTION COOLING  
THERMAL TRANSFER.

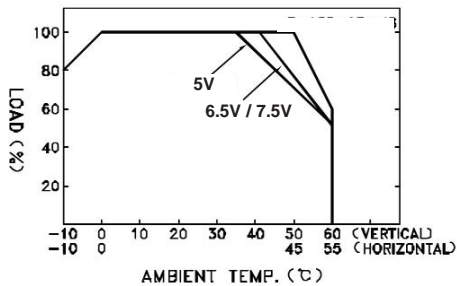


- ☒ TERMINAL PIN NO. ASSIGNMENT
- ☒ PIN 1,2 : AC INPUT
- ☒ PIN 3 : FG
- ☒ PIN 4,5 : DC OUTPUT -V
- ☒ PIN 6,7 : DC OUTPUT +V

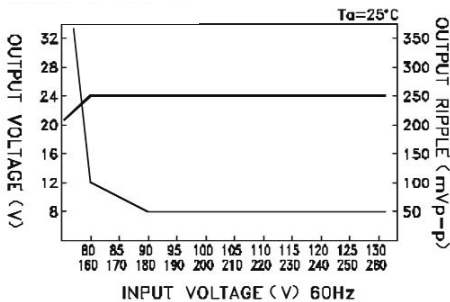


CHARTS

OUTPUT DERATING



STATIC CHARACTERISTICS



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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## RT-3S150 SERIES-150W

**150 Watts, Switchmode Power Supply, Single Output  
Family, Metal Enclosed, Universal Input; ITE**



### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
< 2.5 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
150 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
≤ 1% TYPICAL

**ADJUSTABILITY:**  
+10, -5% MAIN OUTPUT

**OUTPUT INDICATOR:**  
GREEN LED, OUTPUT PRESENT

**OUTPUT REGULATION (LINE/LOAD):**  
± 2 % FOR MAIN OUTPUT

**TURN ON/ TURN OFF OVERTHOOT:**  
4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
20 mSEC MIN AT NOMINAL INPUT 115 VAC AND FULL LOAD

**INRUSH CURRENT:**  
35 A MAX AT COLD START FOR N.A. (50A FOR EURO)

**EFFICIENCY:**  
80% TYPICAL

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

**OTHER PROTECTION:**  
INPUT FUSING

**SAFETY APPROVALS:**  
ITE MODELS: UR TO UL 60950, C-UR TO 22.2 # 950,  
TUV TO EN 60950, CE CLASS I

**DIELECTRIC WITHSTAND VOLTAGE:**  
3000 VAC PRIMARY-SECONDARY; 1500 VAC PRIMARY-  
GROUND

### LEAKAGE CURRENT:

< 0.5 mA

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

### EMI:

COMPLIES WITH EN55022 AND EN55011, CLASS B AND  
FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE  
LOAD, BOTH CONDUCTED AND RADIATED

### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND  
EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL),  
EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6,  
EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

### MTBF:

GREATER THAN 50,000 HOURS AT 25° C AMBIENT  
TEMPERATURE

### OPERATING TEMPERATURE:

0° C TO 40° C

### STORAGE TEMPERATURE:

-40° C TO 80° C

### HUMIDITY:

### MODEL NUMBER CODE:

RT-3: INTERNAL CODE;  
-: ITE MODEL, UL 60950  
S150: FAMILY DESIGNATION, SINGLE OUTPUT 150W  
(P): POWER FACTOR CORRECTION  
03 TO 48: OUTPUT VOLTAGE, DC  
PFC: ACTIVE POWER FACTOR CORRECTION

### NOTES:

1. EACH OUTPUT CURRENT MAY VARY WITHIN IT'S  
DESIGNATION RANGE, AS  
LONG AS OUTPUT POWER IS NOT EXCEEDED.
2. SINGLE OUTPUT UNITS ARE AVAILABLE FROM 3.3V UP TO  
48V IN 0.1V INCREMENTS.
3. (X.X) OPTIONAL FOR SPECIFYING OUTPUT VOLTAGE  
DEVIATION FROM STANDARD MODEL. SUBTRACTING X.X  
VOLTS FROM STANDARD OUTPUT VOLTAGE.

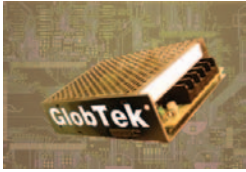
### OUTPUT VOLTAGE / CURRENT: CLASS I MODELS, PROTECTIVE GROUND

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
RT-3S150-03-X.X	3.3	0 - 30	0 - 100
RT-3S150-05-X.X	5.0	0 - 30	0 - 150
RT-3S150-09-X.X	9.0	0 - 16.7	0 - 150
RT-3S150-12-X.X	12.0	0 - 12.5	0 - 150
RT-3S150-13.5-X.X	13.5	0 - 11	0 - 150
RT-3S150-15-X.X	15.0	0 - 10	0 - 150
RT-3S150-18-X.X	18.0	0 - 8.4	0 - 150
RT-3S150-24-X.X	24.0	0 - 6.3	0 - 150
RT-3S150-48-X.X	48.0	0 - 3.2	0 - 150

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
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**150 Watts, Switchmode Power Supply, Single Output  
Family, Metal Enclosed, Universal Input; ITE**



**MECHANICAL DRAWING**

UPPER/LOWER HOUSING, HIGH IMPACT PLASTIC, 94VO POLYCARBONATE, NON-VENTED,  
COLOR BLACK. UNIT HAS NON-SKID POLYURETHANE PADS.

**NOTE:**

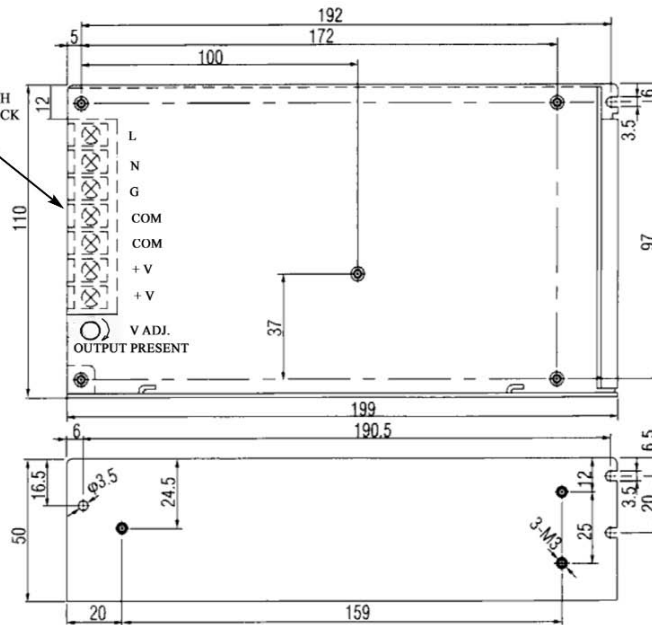
10 MIL 94V-0 FIBER GLASS (2.75X5.15 IN. W/4 HOLES MATCHING MOUNTING HOLE POSITIONS)



**INPUT CONNECTOR: CONFIGURATION:**

CLASS I MODELS STANDARD:  
DESKTOP UNITS: EN60320/C14/3 PINS  
AC POWER RECEPTACLE WITH MALE  
PRONGS, COLOR BLACK. NOTE:  
GROUND WIRE, 18AWG STRANDED,  
GREEN WITH YELLOW STRIPE JACKET  
IS CONNECTED BETWEEN GROUND  
LUG AND COMMON OF Y SAFETY  
CAPACITORS, INTERNALLY OPTIONAL  
EARTH GROUND IS CONNECTED TO  
THE DC OUTPUT RETURN AND  
OUTPUT CORD DRAIN WIRE (SHIELD).

7P / 9.5 mm PITCH  
TERMINAL BLOCK



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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## GT (S/T/Q)P-150 SERIES-150W

**150 Watts, Switchmode Power Supply, Single/Triple/Quad Output,  
Enclosed, Universal Input, Active PFC, ITE Class I, Power Factor Correction**



### ELECTRICAL SPECIFICATIONS:

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
< 2.5 A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
60 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
100-150 mV (P-P) OUTPUT DEPENDENT  
ADJUSTABILITY: +10, -5% MAIN OUTPUT

**OUTPUT INDICATOR:**  
GREEN LED, OUTPUT PRESENT

**OUTPUT REGULATION (LINE/LOAD):**  
± 2% FOR MAIN OUTPUT TYP., VARIES BY MODEL + OUTPUT DEPENDENT

**TURN ON/ TURN OFF OVERTHOOT:**  
4% MAX 500µs MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
20 mSEC MIN AT NOMINAL INPUT 115 VAC AND FULL LOAD

**INRUSH CURRENT:**  
40~45 A MAX AT COLD START @ 230 V

**EFFICIENCY:**  
70-85 % TYPICAL, VARIES BY MODEL

**POWER FACTOR:**  
0.93 MIN.; ACTIVE PFC FRONT STAGE

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 130% OF NOMINAL VOLTAGE FOR MAIN OUTPUT

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP WITH AUTO RECOVERY TO 1.1 - 1.3 IO

**OTHER PROTECTION:**  
INPUT FUSING

### SAFETY APPROVALS:

UR TO UL 60950, C-UR TO 22.2 # 950, TUV TO EN 60950, CE CLASS I

### DIELECTRIC WITHSTAND VOLTAGE:

3000VAC PRIMARY-SECONDARY; 1500 VAC PRIMARY- GROUND

### LEAKAGE CURRENT:

≤ 3.5 mA

### LINE SURGE:

EN 61000-4-5 LEVEL 4

### EMI:

COMPLIES WITH EN55022 , CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN 61000-4-8, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

### MTBF:

GREATER THAN 50,000 HOURS AT 25° C AMBIENT TEMPERATURE

### OPERATING TEMPERATURE:

0° C TO 40° C

### STORAGE TEMPERATURE:

-40° C TO 80° C

### WEIGHT:

SINGLE O/P: 0.75 KG; TRIPLE O/P: 0.8 KG; QUAD. O/P: 1.1 KG

### VIBRATION:

10-500 Hz, ZG 10 MIN/CYCLE FOR 60 MINUTES ON EACH AXIS

### HUMIDITY:

### NOTES:

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

### OUTPUT VOLTAGE / CURRENT: CLASS I MODELS, PROTECTIVE GROUND

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)	ENCLOSURES
GTSP-150-3.3	+3.3	30	0 - 150	A
GTSP-150-5	+5.0	30	0 - 150	A
GTSP-150-7.5	+7.5	20	0 - 150	A
GTSP-150-12	+12 +/-2%	12.5	0 - 150	A
GTSP-150-13.5	+13.5	1.2	0 - 150	A
GTSP-150-15	+15.0	10	0 - 150	A
GTSP-150-24	+24.0	6.3	0 - 150	A
GTSP-150-27	+27.0	5.6	0 - 150	A
GTSP-150-48	+48.0	3.2	0 - 150	A
GTTP-150-A	+5.0	15	0 - 150	B
	+12	6		
	-5	0.6		

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



**150 Watts, Switchmode Power Supply, Single/Triple/Quad Output,  
Enclosed, Universal Input, Active PFC, ITE Class I, Power Factor Correction**

MODEL NUMBER	OUTPUT VOLTAGES (VDC)	OUTPUT CURRENT (mA)	RATED OUTPUT POWER (W)	ENCLOSURE
GTTP-150-B	+5.0	15	150	B
	+12	5.5		
	-12	0.6		
GTTP-150-C	+5.0	15	150	B
	+15	4.5		
	-15	0.6		
GTTP-150-D	+5.0	15	150	B
	+24	3		
	-12	0.6		
GTQP-150-3A	+3.3	10	150	C
	+5	10		
	+12	5		
	-5	0.6		
GTQP-150-3B	+3.3	10	150	C
	+5	10		
	+12	5		
	-12	0.6		
GTQP-150-3C	+3.3	10	150	C
	+5	10		
	+15	4		
	-15	0.6		
GTQP-150-3D	+3.3	10	150	C
	+5	10		
	+24	2.5		
	-12	0.6		
GTQP-150-B	+5	15	150	C
	+12	4		
	-12	2.0		
	-5	0.6		
GTQP-150-C	+5	15	150	C
	+15	3		
	-15	2.0		
	-5	0.6		
GTQP-150-D	+5	10	150	C
	+12	4		
	24	2.0		
	-12	0.6		
GTQP-150-F	+5	10	150	C
	+15	3		
	24	2.0		
	-15	0.6		

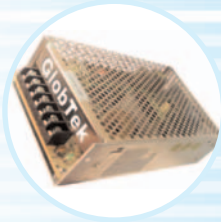


SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

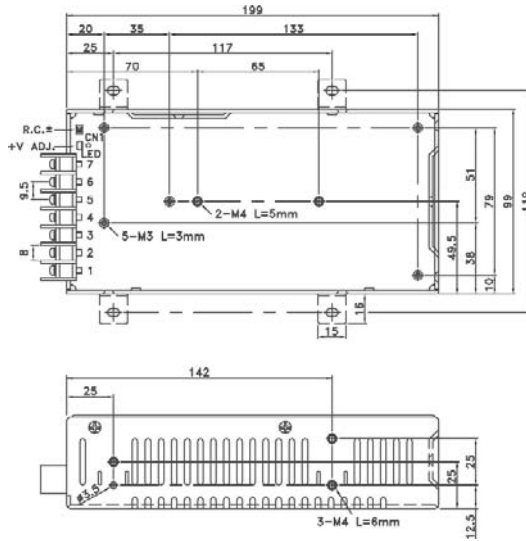


ISO 9001:2000  
REGISTERED

150 Watts, Switchmode Power Supply, Single/Triple/Quad Output,  
Enclosed, Universal Input, Active PFC, ITE Class I, Power Factor Correction



ENCLOSURE: GTSP

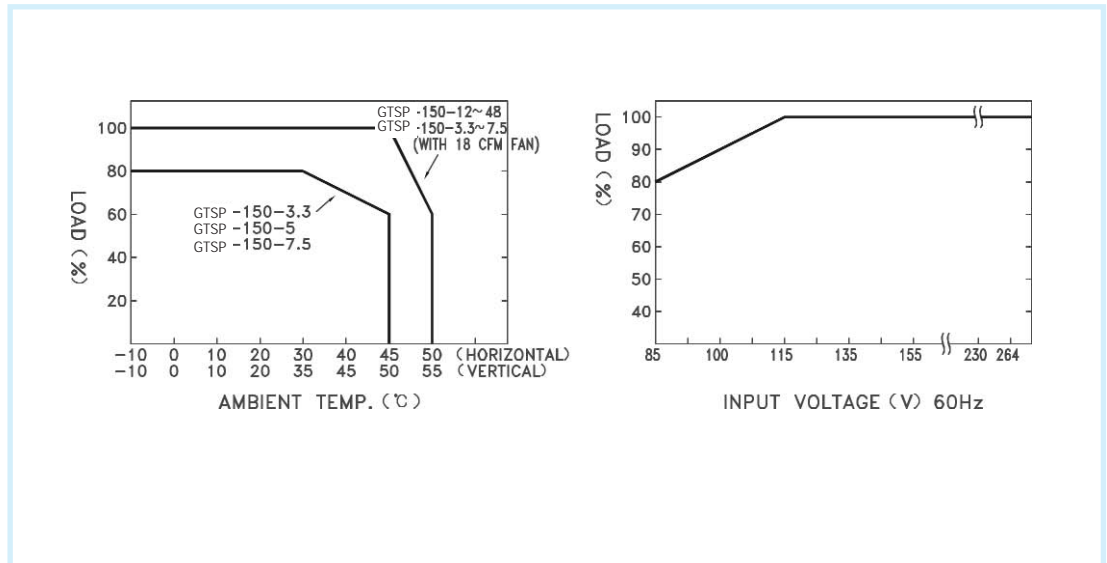


A

PIN ASSIGNMENT

PIN NUMBER	ASSIGNMENT
PIN #1	AC INPUT
PIN #2	AC INPUT
PIN #3	FG
PIN #4	DC OUTPUT -V
PIN #5	DC OUTPUT -V
PIN #6	DC OUTPUT +V
PIN #7	DC OUTPUT +V
CN1	REMOTE CONTROL (OPTION) (JST S2B-XH COMPATIBLE)

DERATING: GTSP



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



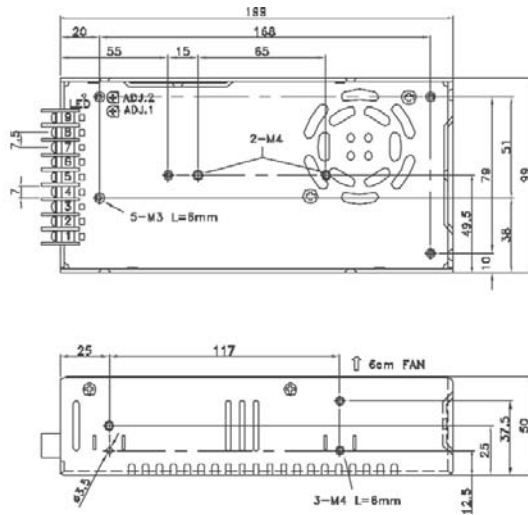
**150 Watts, Switchmode Power Supply, Single/Triple/Quad Output,  
Enclosed, Universal Input, Active PFC, ITE Class I, Power Factor Correction**



ENCLOSURE: GTTP



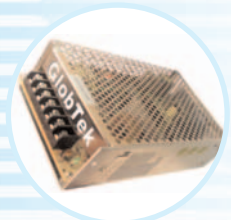
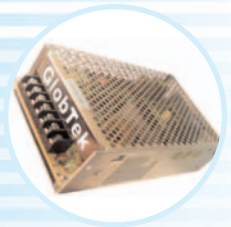
UT V1



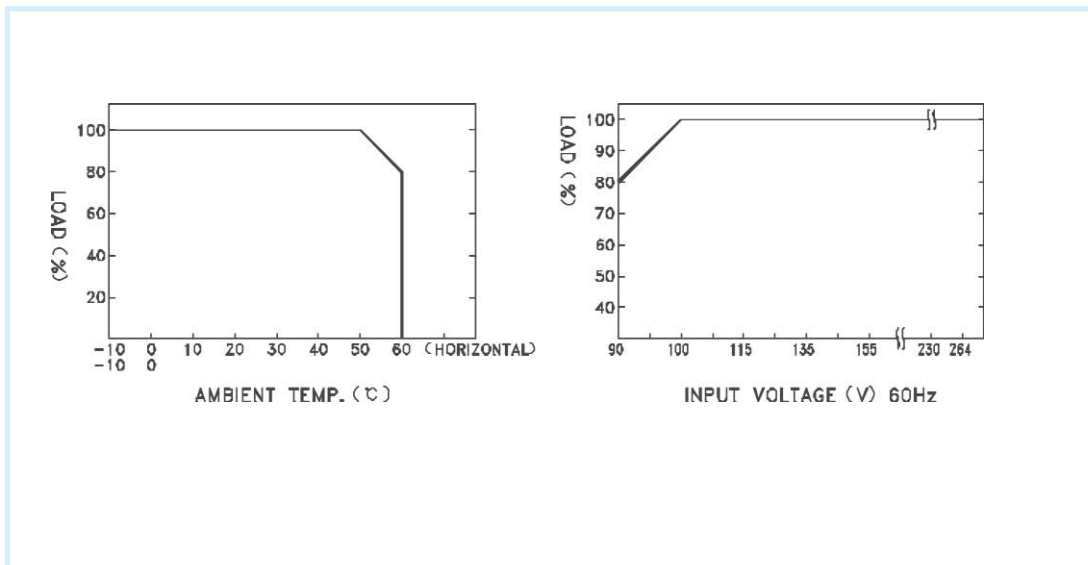
**PIN ASSIGNMENT**

PIN NUMBER	ASSIGNMENT
PIN #1	AC INPUT
PIN #2	AC INPUT
PIN #3	FG
PIN #4	DC OUTPUT V3
PIN #5	DC OUTPUT V2
PIN #6	DC OUTPUT V1
PIN #7	DC OUTPUT V1
PIN #8	DC OUTPUT COM
PIN #9	DC OUTPUT COM

**B**



DERATING: GTSP



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

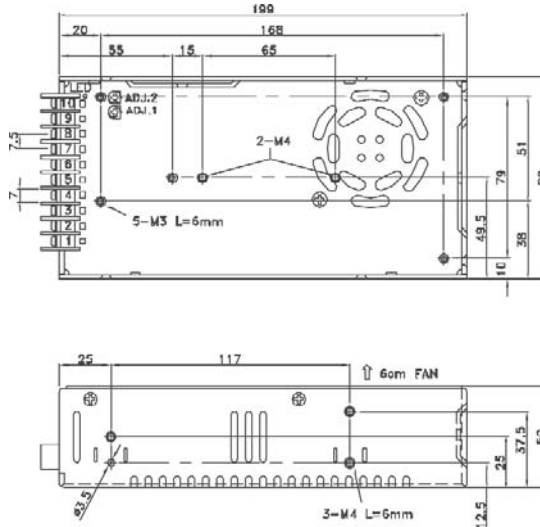


ISO 9001:2000  
REGISTERED

150 Watts, Switchmode Power Supply, Single/Triple/Quad Output,  
Enclosed, Universal Input, Active PFC, ITE Class I, Power Factor Correction



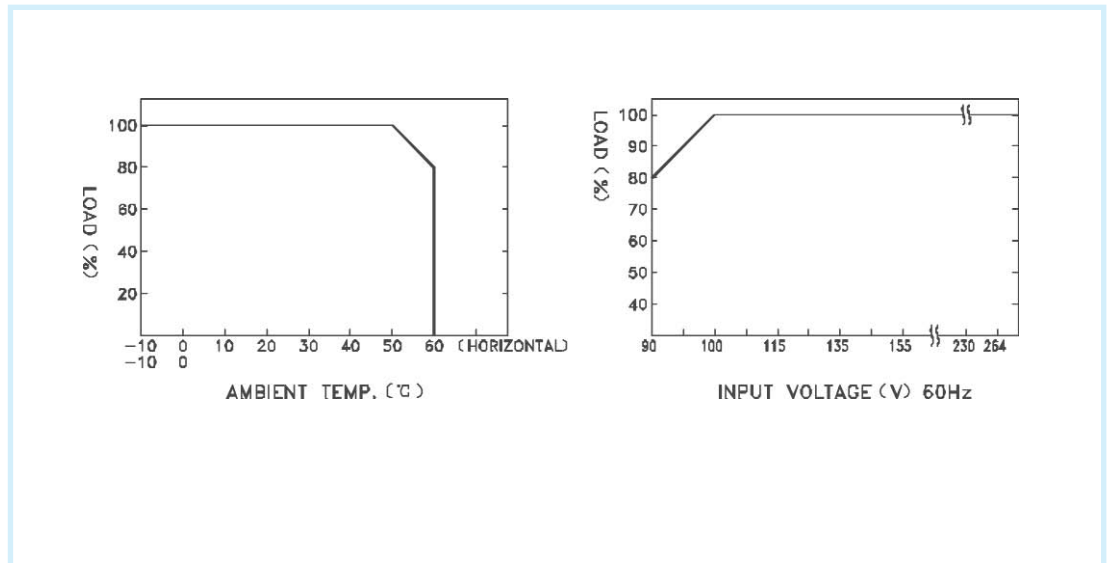
ENCLOSURE: GTQP



PIN ASSIGNMENT

PIN NUMBER	ASSIGNMENT
PIN #1	AC INPUT
PIN #2	AC INPUT
PIN #3	FG
PIN #4	DC OUTPUT V4
PIN #5	DC OUTPUT V5
PIN #6	DC OUTPUT V1
PIN #7	DC OUTPUT V1
PIN #8	DC OUTPUT COM
PIN #9	DC OUTPUT COM
PIN #10	DC OUTPUT V2

DERATING: GTSP



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





ISO 9001:2000  
REGISTERED



PRELIMINARY

**200 Watts, Universal Input, Single Output Family,  
ITE Switchmodes**  
Medical Versions (See Page 97)

FOR INDOOR USE ONLY



**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**  
100 VAC TO 240 VAC

**INPUT CURRENT:**  
6.0 A AT 90 VAC AND 3.0A AT 240 VAC MAXIMUM

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD CURRENT REQUIRED TO MAINTAIN REGULATION

**OUTPUT POWER (RATED):**  
200 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
LESS THAN 1% OF THE NOMINAL OUTPUT VOLTAGE

**OUTPUT REGULATION (LINE/LOAD):**  
± 2% MEASURED AT OUTPUT CONNECTOR

**LINE REGULATION:**  
± 0.5 % OUTPUT MEASURED AT OUTPUT CONNECTOR

**REMOTE SENSING (OPTION):**  
REMOTE SENSE OPTION FOR TIGHT OUTPUT REGULATION.

**TURN ON/ TURN OFF OVERSHOOT:**  
4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
20mS TYPICAL AT 120VAC, 70mS TYPICAL AT 230VAC

**INRUSH CURRENT:**  
40A MAXIMUM AT 120VAC AND 60A MAXIMUM AT 230VAC

**EFFICIENCY:**  
75 % TYPICAL

**POWER FACTOR:**  
0.8 TYP., CURRENT SHAPER PFC FRONT STAGE

**SWITCHING FREQUENCY:**  
200 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
OUTPUT LIMITED BETWEEN 130 TO 150% OF NOMINAL LOAD, HICCUP MODE

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP MODE WITH AUTORECOVERY ONCE FAULT HAS BEEN REMOVED

**OTHER PROTECTION:**  
DUAL FUSING, LINE AND NEUTRAL FOR MEDICAL GRADE AND LINE FUSING FOR ITE GRADE

**SAFETY APPROVALS (PENDING):**  
EN60950 & UL60950, CB REPORT AND CE MARK

**DIELECTRIC WITHSTAND VOLTAGE:**  
5656VDC (4000VAC) PRIMARY-SECONDARY;  
2121VDC (1500VAC) PRIMARY- GROUND

**LEAKAGE CURRENT:**  
≤ 300uA AT 240VAC

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

**EMI:**  
COMPLIES WITH EN55022, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

**CE MARK:**  
TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**  
100K HRS, ROOM TEMPERATURE, GROUND BENIGN

**OPERATING TEMPERATURE:**  
0° TO 40°C

**STORAGE TEMPERATURE:**  
-40°C TO 85°C

**HUMIDITY:**  
NON-CONDENSING; 5% TO 90% RH

**MODEL NUMBER CODE:**  
GT: INTERNAL CODE;  
-: ITE MODEL, UL 60950  
(P): POWER FACTOR CORRECTION, OPTIONAL  
0803.3 TO 20048: OUTPUT POWER / OUTPUT VOLTAGE  
F: OPEN FRAME OR B: PCB MOUNTED  
-: CLASS I PROTECTIVE GROUND OR W: CLASS II, DOUBLE INSULATED

- NOTES:**
- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
  - 2) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
  - 3) CONDUCTED AND RADIATED EMI WHERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES.
  - 4) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMICONDUCTOR CASE SHOULD EXCEED 130C
  - 5) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID OSCILLATION OF THE POWER SUPPLY.
  - 6) ALL MEASUREMENTS ARE PERFORMED AT 25C ROOM AMBIENT AND ARE TYPICAL.
  - 7) GLOBTEK PRODUCTS ARE NOT AUTHORIZED TO BE USED AS MISSION CRITICAL COMPONENTS IN LIFE SUPPORT HAZARDOUS ENVIRONMENT, NUCLEAR OR AIRCRAFT APPLICATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE CEO OF GLOBTEK INC.
  - 8) CONTENTS OF THIS DOCUMENTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

**OUTPUT VOLTAGE / CURRENT:**  
**CLASS I MODELS, PROTECTIVE GROUND**  
**CLASS II MODELS, DOUBLE INSULATED**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-(P)9200-0752.5	+2.50	0 - 30.00	0 - 75
GT-(P)9200-0993.3-X.X	+3.30	0 - 30.00	0 - 99
GT-(P)9200-20005-X.X	+5.00	0 - 40.00	0 - 200
GT-(P)9200-20006-X.X	+6.00	0 - 33.33	0 - 200
GT-(P)9200-2007.5-X.X	+7.50	0 - 26.67	0 - 200
GT-(P)9200-20009-X.X	+9.00	0 - 22.22	0 - 200
GT-(P)9200-20012-X.X	+12.0	0 - 16.67	0 - 200
GT-(P)9200-20013.5-X.X	+13.50	0 - 14.81	0 - 200
GT-(P)9200-20013.8-X.X	+13.80	0 - 14.49	0 - 200



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

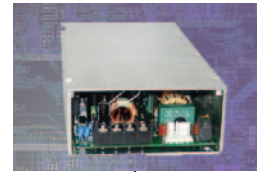


ISO 9001:2000  
REGISTERED

## GT-9200 SERIES-200W

### 200 Watts, Universal Input, Single Output Family, ITE Switchmodes

Medical Versions (See Page 97)

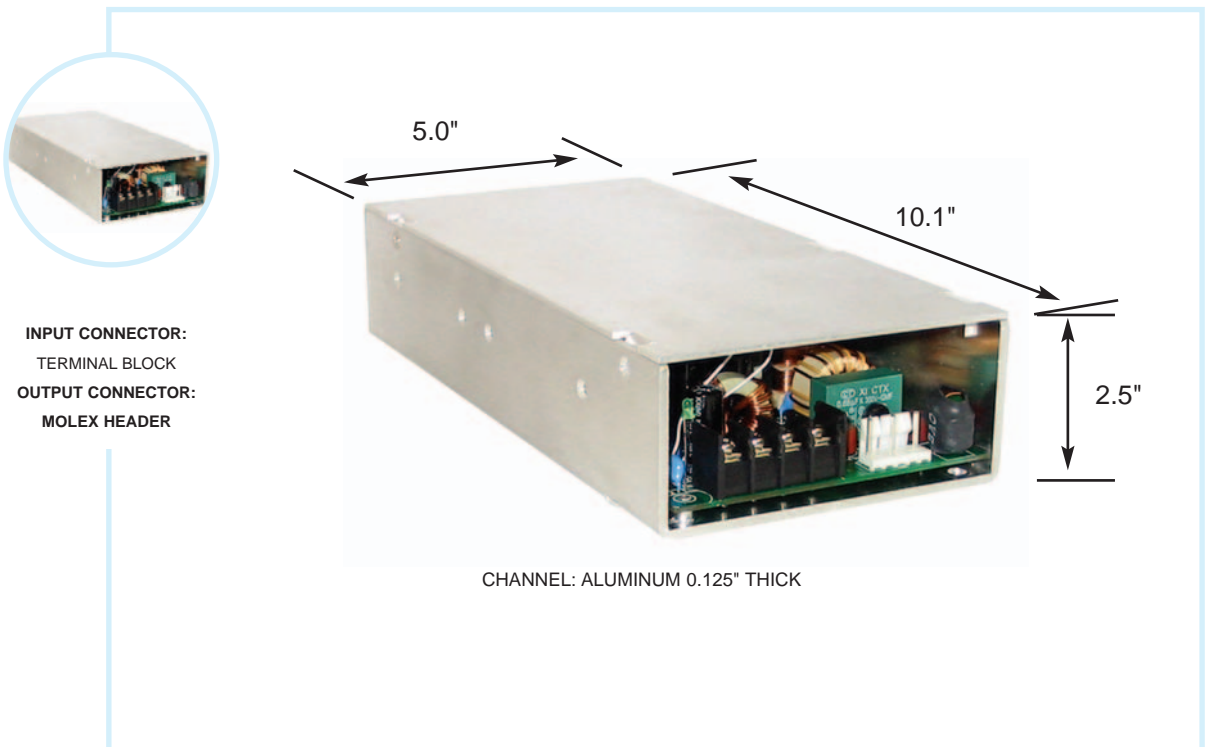


**OUTPUT VOLTAGE / CURRENT:**  
CLASS I MODELS, PROTECTIVE GROUND  
CLASS II MODELS, DOUBLE INSULATED

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-(P)9200-20015-X.X	+15.0	0 - 13.33	0 - 200
GT-(P)9200-20018-X.X	+18.0	0 - 11.11	0 - 200
GT-(P)9200-20024-X.X	+24.0	0 - 8.33	0 - 200
GT-(P)9200-20036-X.X	+36.0	0 - 5.56	0 - 200
GT-(P)9200-20048-X.X	+48.0	0 - 4.17	0 - 200

### ENCLOSURE

**CONFIGURATION:**  
ENCLOSED SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOW BELOW.



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



PRELIMINARY

200 Watts, Universal Input, Single Output Family,  
Medical Grade Switchmodes



FOR INDOOR USE ONLY

#### ELECTRICAL SPECIFICATIONS:

##### INPUT VOLTAGE:

100 VAC TO 240 VAC

##### INPUT CURRENT:

6.0 A AT 90 VAC AND 3.0A AT 240 VAC MAXIMUM

##### INPUT FREQUENCY:

47 HZ - 63 HZ

##### OUTPUT CURRENT:

NO MINIMUM LOAD CURRENT REQUIRED TO MAINTAIN REGULATION

##### OUTPUT POWER (RATED):

200 WATTS MAX

##### OUTPUT RIPPLE (PEAK TO PEAK):

LESS THAN 1% OF THE NOMINAL OUTPUT VOLTAGE

##### OUTPUT REGULATION (LINE/LOAD):

± 2% MEASURED AT OUTPUT CONNECTOR

##### LINE REGULATION:

± 0.5 % OUTPUT MEASURED AT OUTPUT CONNECTOR

##### REMOTE SENSING (OPTION):

REMOTE SENSE OPTION FOR TIGHT OUTPUT REGULATION.

##### TURN ON/ TURN OFF OVERTHOOT:

4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD

##### TURN-ON DELAY:

1 SEC MAX

##### HOLD-UP TIME:

20mS TYPICAL AT 120VAC, 70mS TYPICAL AT 230VAC

##### INRUSH CURRENT:

40A MAXIMUM AT 120VAC AND 60A MAXIMUM AT 230VAC

##### EFFICIENCY:

75 % TYPICAL

##### POWER FACTOR:

0.8 TYP., CURRENT SHAPER PFC FRONT STAGE

##### SWITCHING FREQUENCY:

200 KHZ TYPICAL

##### OVER-VOLTAGE PROTECTION:

OUTPUT LIMITED BETWEEN 130 TO 150% OF NOMINAL LOAD, HICCUP MODE

##### OVER-CURRENT / SHORT CIRCUIT:

HICCUP MODE WITH AUTORECOVERY ONCE FAULT HAS BEEN REMOVED

##### OTHER PROTECTION:

DUAL FUSING, LINE AND NEUTRAL FOR MEDICAL GRADE AND LINE FUSING FOR ITE GRADE

##### SAFETY APPROVALS (PENDING):

EN60601.1 AND UL60601.1, CB REPORT AND CE MARK

##### DIELECTRIC WITHSTAND VOLTAGE:

5656VDC (4000VAC) PRIMARY-SECONDARY;  
2121VDC (1500VAC) PRIMARY- GROUND

##### LEAKAGE CURRENT:

≤ 300uA AT 240VAC

##### OUTPUT VOLTAGE / CURRENT:

CLASS I MODELS, PROTECTIVE GROUND

CLASS II MODELS, DOUBLE INSULATED

#### LINE SURGE:

EN 61000-4-5 LEVEL 4

#### EMI:

COMPLIES WITH EN55011, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

#### CE MARK:

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

#### MTBF:

100K HRS, ROOM TEMPERATURE, GROUND BENIGN

#### OPERATING TEMPERATURE:

0° TO 40°C

#### STORAGE TEMPERATURE:

-40°C TO 85°C

#### HUMIDITY:

NON-CONDENSING; 5% TO 90% RH

#### MODEL NUMBER CODE:

GT: INTERNAL CODE;

M: MEDICAL MODEL, UL 2601-1

(P): POWER FACTOR CORRECTION, OPTIONAL

0803.3 TO 20048: OUTPUT POWER / OUTPUT VOLTAGE

F: OPEN FRAME OR B: PCB MOUNTED

-: CLASS I PROTECTIVE GROUND OR W: CLASS II, DOUBLE INSULATED

#### NOTES:

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 3) CONDUCTED AND RADIATED EMI WHERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES.
- 4) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMICONDUCTOR CASE SHOULD EXCEED 130C
- 5) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID OSCILLATION OF THE POWER SUPPLY.
- 6) ALL MEASUREMENTS ARE PERFORMED AT 25C ROOM AMBIENT AND ARE TYPICAL.
- 7) GLOBTEK PRODUCTS ARE NOT AUTHORIZED TO BE USED AS MISSION CRITICAL COMPONENTS IN LIFE SUPPORT HAZARDOUS ENVIRONMENT, NUCLEAR OR AIRCRAFT APPLICATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE CEO OF GLOBTEK INC.
- 8) CONTENTS OF THIS DOCUMENTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.



MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM(P)9200-0752.5	+2.50	0 - 30.00	0 - 75
GTM(P)9200-0993.3-X.X	+3.30	0 - 30.00	0 - 99
GTM(P)9200-20005-X.X	+5.00	0 - 40.00	0 - 200
GTM(P)9200-20006-X.X	+6.00	0 - 33.33	0 - 200
GTM(P)9200-2007.5-X.X	+7.50	0 - 26.67	0 - 200
GTM(P)9200-20009-X.X	+9.00	0 - 22.22	0 - 200
GTM(P)9200-20012-X.X	+12.0	0 - 16.67	0 - 200
GTM(P)9200-20013.5-X.X	+13.50	0 - 14.81	0 - 200
GTM(P)9200-20013.8-X.X	+13.80	0 - 14.49	0 - 200

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

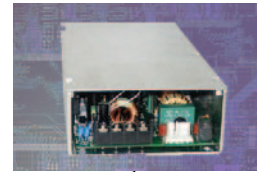


ISO 9001:2000  
REGISTERED

## GTM9200 SERIES-200W



**200 Watts, Universal Input, Single Output Family,  
Medical Grade Switchmodes**



 FOR INDOOR USE ONLY

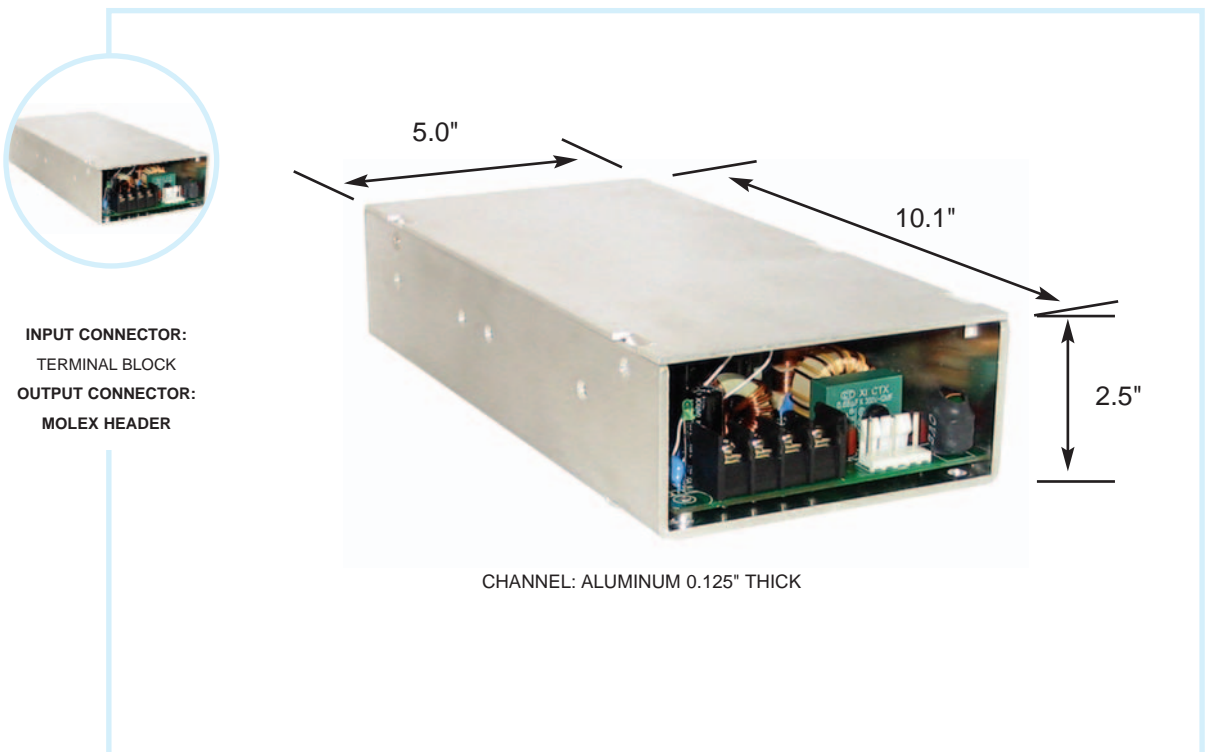


**OUTPUT VOLTAGE / CURRENT:  
CLASS I MODELS, PROTECTIVE GROUND  
CLASS II MODELS, DOUBLE INSULATED**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM(P)9200-20015-X.X	+15.0	0 - 13.33	0 - 200
GTM(P)9200-20018-X.X	+18.0	0 - 11.11	0 - 200
GTM(P)9200-20024-X.X	+24.0	0 - 8.33	0 - 200
GTM(P)9200-20036-X.X	+36.0	0 - 5.56	0 - 200
GTM(P)9200-20048-X.X	+48.0	0 - 4.17	0 - 200

### ENCLOSURE

**CONFIGURATION:**  
ENCLOSED SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOW BELOW.



**INPUT CONNECTOR:**  
TERMINAL BLOCK  
**OUTPUT CONNECTOR:**  
MOLEX HEADER

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



PRELIMINARY

**250 Watts, Universal Input, Single Output Family,  
ITE Switchmodes**

Medical Versions (See Page 101)



**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**  
100 VAC TO 240 VAC

**INPUT CURRENT:**  
6.0 A AT 90 VAC AND 3.0A AT 240 VAC MAXIMUM

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD CURRENT REQUIRED TO MAINTAIN REGULATION

**OUTPUT POWER (RATED):**  
250 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
LESS THAN 1% OF THE NOMINAL OUTPUT VOLTAGE

**OUTPUT REGULATION (LINE/LOAD):**  
± 2% MEASURED AT OUTPUT CONNECTOR

**LINE REGULATION:**  
± 0.5 % OUTPUT MEASURED AT OUTPUT CONNECTOR

**REMOTE SENSING (OPTION):**  
REMOTE SENSE OPTION FOR TIGHT OUTPUT REGULATION.

**TURN ON/ TURN OFF OVERSHOOT:**  
4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
20mS TYPICAL AT 120VAC, 70mS TYPICAL AT 230VAC

**INRUSH CURRENT:**  
40A MAXIMUM AT 120VAC AND 60A MAXIMUM AT 230VAC

**EFFICIENCY:**  
75 % TYPICAL

**POWER FACTOR:**  
0.8 TYP., CURRENT SHAPER PFC FRONT STAGE

**SWITCHING FREQUENCY:**  
200 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
OUTPUT LIMITED BETWEEN 130 TO 150% OF NOMINAL LOAD, HICCUP MODE

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP MODE WITH AUTORECOVERY ONCE FAULT HAS BEEN REMOVED

**OTHER PROTECTION:**  
DUAL FUSING, LINE AND NEUTRAL FOR MEDICAL GRADE AND LINE FUSING FOR ITE GRADE

**SAFETY APPROVALS (PENDING):**  
EN60950, UL60950  
CB REPORT AND CE MARK

**DIELECTRIC WITHSTAND VOLTAGE:**  
5656VDC (4000VAC) PRIMARY-SECONDARY;  
2121VDC (1500VAC) PRIMARY- GROUND

**LEAKAGE CURRENT:**  
≤ 300uA AT 240VAC

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

**EMI:**  
COMPLIES WITH EN55022, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

**CE MARK:**  
TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**  
100K HRS, ROOM TEMPERATURE, GROUND BENIGN

**OPERATING TEMPERATURE:**  
0° TO 40°C

**STORAGE TEMPERATURE:**  
-40°C TO 85°C

**HUMIDITY:**  
NON-CONDENSING; 5% TO 90% RH

**MODEL NUMBER CODE:**  
GT: INTERNAL CODE;  
-: ITE MODEL, EN 60950  
(P): POWER FACTOR CORRECTION, OPTIONAL  
0883.3 TO 25048: OUTPUT POWER / OUTPUT VOLTAGE  
-: CLASS I PROTECTIVE GROUND OR W: CLASS II, DOUBLE INSULATED

**NOTES:**

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 3) CONDUCTED AND RADIATED EMI WHERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES.
- 4) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMICONDUCTOR CASE SHOULD EXCEED 130C
- 5) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID OSCILLATION OF THE POWER SUPPLY.
- 6) ALL MEASUREMENTS ARE PERFORMED AT 25C ROOM AMBIENT AND ARE TYPICAL.
- 7) GLOBTEK PRODUCTS ARE NOT AUTHORIZED TO BE USED AS MISSION CRITICAL COMPONENTS IN LIFE SUPPORT HAZARDOUS ENVIRONMENT, NUCLEAR OR AIRCRAFT APPLICATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE CEO OF GLOBTEK INC.
- 8) CONTENTS OF THIS DOCUMENTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.



**OUTPUT VOLTAGE / CURRENT:**  
CLASS I MODELS, PROTECTIVE GROUND  
CLASS II MODELS, DOUBLE INSULATED

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-(P)9250-0833.3-X.X	+3.30	0 - 30.0	0 - 99
GT-(P)9250-15005-X.X	+5.00	0 - 40.0	0 - 150
GT-(P)9250-25006-X.X	+6.00	0 - 26.6	0 - 150
GT-(P)9250-25007.5-X.X	+7.50	0 - 20.0	0 - 150
GT-(P)9250-25009-X.X	+9.00	0 - 27.8	0 - 250
GT-(P)9250-25012-X.X	+12.0	0 - 20.9	0 - 250
GT-(P)9250-25013.5-X.X	+13.50	0 - 18.5	0 - 250
GT-(P)92500-25013.8-X.X	+13.80	0 - 18.0	0 - 250

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

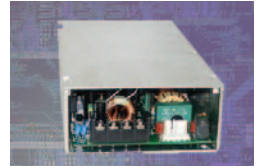


ISO 9001:2000  
REGISTERED

## GT-9250 SERIES-250W

### 250 Watts, Universal Input, Single Output Family, ITE Switchmodes

Medical Versions (See Page 101)



FOR INDOOR USE ONLY



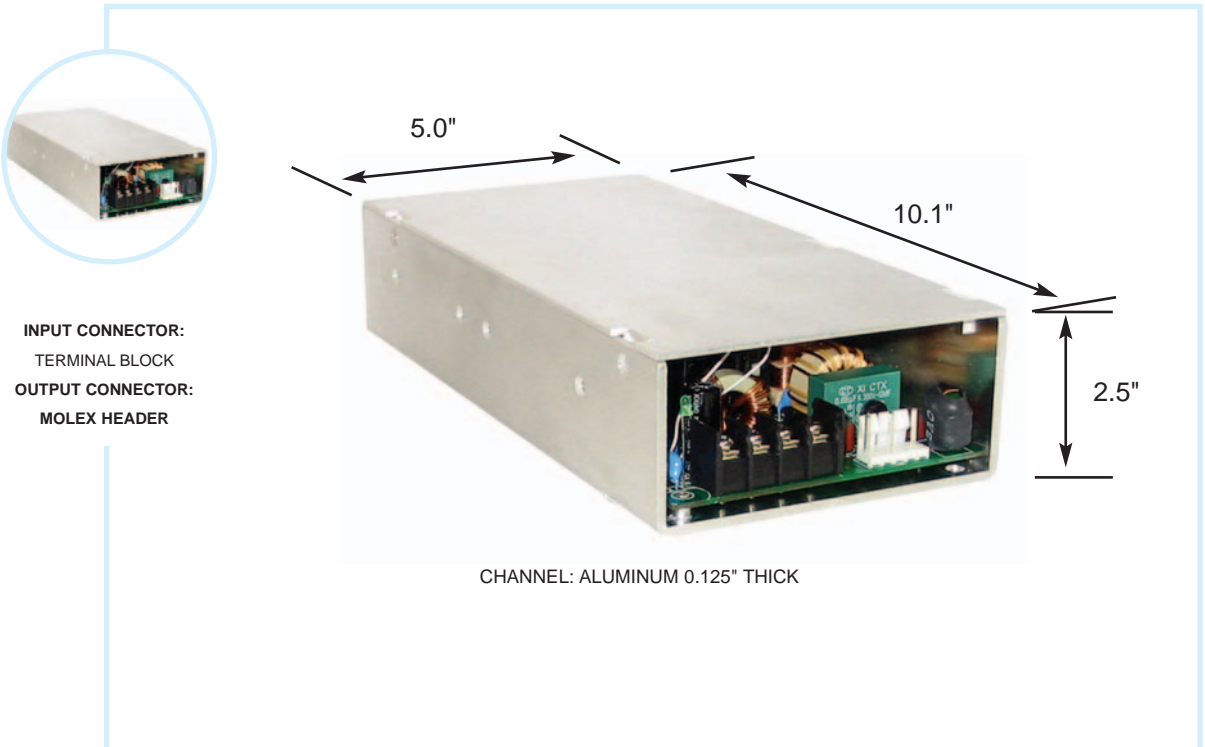
**OUTPUT VOLTAGE / CURRENT:**  
CLASS I MODELS, PROTECTIVE GROUND  
CLASS II MODELS, DOUBLE INSULATED

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-(P)9250-25015-X.X	+15.0	0 - 16.7	0 - 250
GT-(P)9250-25018-X.X	+18.0	0 - 13.9	0 - 250
GT-(P)9250-25024-X.X	+24.0	0 - 10.2	0 - 250
GT-(P)92500-25036-X.X	+36.0	0 - 6.9	0 - 250
GT-(P)9250-25048-X.X	+48.0	0 - 5.2	0 - 250

### ENCLOSURE

#### CONFIGURATION:

ENCLOSED SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOW BELOW.



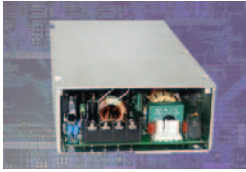
**INPUT CONNECTOR:**  
TERMINAL BLOCK  
**OUTPUT CONNECTOR:**  
MOLEX HEADER

CHANNEL: ALUMINUM 0.125" THICK

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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PRELIMINARY

**250 Watts, Universal Input, Single Output Family,  
Medical Grade Switchmodes**



**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**

100 VAC TO 240 VAC

**INPUT CURRENT:**

6.0 A AT 90 VAC AND 3.0A AT 240 VAC MAXIMUM

**INPUT FREQUENCY:**

47 HZ - 63 HZ

**OUTPUT CURRENT:**

NO MINIMUM LOAD CURRENT REQUIRED TO MAINTAIN REGULATION

**OUTPUT POWER (RATED):**

250 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**

LESS THAN 1% OF THE NOMINAL OUTPUT VOLTAGE

**OUTPUT REGULATION (LINE/LOAD):**

± 2% MEASURED AT OUTPUT CONNECTOR

**LINE REGULATION:**

± 0.5 % OUTPUT MEASURED AT OUTPUT CONNECTOR

**REMOTE SENSING (OPTION):**

REMOTE SENSE OPTION FOR TIGHT OUTPUT REGULATION.

**TURN ON / TURN OFF OVERTHOOT:**

4% MAX 500µs MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**

1 SEC MAX

**HOLD-UP TIME:**

20ms TYPICAL AT 120VAC, 70ms TYPICAL AT 230VAC

**INRUSH CURRENT:**

40A MAXIMUM AT 120VAC AND 60A MAXIMUM AT 230VAC

**EFFICIENCY:**

75 % TYPICAL

**POWER FACTOR:**

0.8 TYP., CURRENT SHAPER PFC FRONT STAGE

**SWITCHING FREQUENCY:**

200 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**

OUTPUT LIMITED BETWEEN 130 TO 150% OF NOMINAL LOAD, HICCUP MODE

**OVER-CURRENT / SHORT CIRCUIT:**

HICCUP MODE WITH AUTORECOVERY ONCE FAULT HAS BEEN REMOVED

**OTHER PROTECTION:**

DUAL FUSING, LINE AND NEUTRAL FOR MEDICAL GRADE AND LINE FUSING FOR ITE GRADE

**SAFETY APPROVALS (PENDING):**

EN60601.1 AND UL60601.1  
CB REPORT AND CE MARK

**DIELECTRIC WITHSTAND VOLTAGE:**

5656VDC (4000VAC) PRIMARY-SECONDARY;  
2121VDC (1500VAC) PRIMARY- GROUND

**LEAKAGE CURRENT:**

≤ 300µA AT 240VAC

**LINE SURGE:**

EN 61000-4-5 LEVEL 4

**EMI:**

COMPLIES WITH EN55022, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

**CE MARK:**

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**

100K HRS, ROOM TEMPERATURE, GROUND BENIGN

**OPERATING TEMPERATURE:**

0° TO 40°C

**STORAGE TEMPERATURE:**

-40°C TO 85°C

**HUMIDITY:**

NON-CONDENSING; 5% TO 90% RH

**MODEL NUMBER CODE:**

GT: INTERNAL CODE;

M: MEDICAL MODEL, 60601.1

(P): POWER FACTOR CORRECTION, OPTIONAL

0833.3 TO 25048: OUTPUT POWER / OUTPUT VOLTAGE

-: CLASS I PROTECTIVE GROUND OR W: CLASS II, DOUBLE INSULATED

**NOTES:**

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TANTALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 3) CONDUCTED AND RADIATED EMI WHERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES.
- 4) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMICONDUCTOR CASE SHOULD EXCEED 130C
- 5) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID OSCILLATION OF THE POWER SUPPLY.
- 6) ALL MEASUREMENTS ARE PERFORMED AT 25C ROOM AMBIENT AND ARE TYPICAL.
- 7) GLOBTEK PRODUCTS ARE NOT AUTHORIZED TO BE USED AS MISSION CRITICAL COMPONENTS IN LIFE SUPPORT HAZARDOUS ENVIRONMENT, NUCLEAR OR AIRCRAFT APPLICATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE CEO OF GLOBTEK INC.
- 8) CONTENTS OF THIS DOCUMENTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

**OUTPUT VOLTAGE / CURRENT:**

CLASS I MODELS, PROTECTIVE GROUND

CLASS II MODELS, DOUBLE INSULATED

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM(P)9250-0833.3-X.X	+3.30	0 - 30.0	0 - 99
GTM(P)9250-15005-X.X	+5.00	0 - 40.0	0 - 150
GTM(P)9250-25006-X.X	+6.00	0 - 26.6	0 - 150
GTM(P)9250-25007.5-X.X	+7.50	0 - 20.0	0 - 150
GTM(P)9250-25009-X.X	+9.00	0 - 27.8	0 - 250
GTM(P)9250-25012-X.X	+12.0	0 - 20.9	0 - 250
GTM(P)9250-25013.5-X.X	+13.50	0 - 18.5	0 - 250
GTM(P)9250-25013.8-X.X	+13.80	0 - 18.0	0 - 250

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## GTM9250 SERIES-250W



**250 Watts, Universal Input, Single Output Family,  
Medical Grade Switchmodes**



 FOR INDOOR USE ONLY



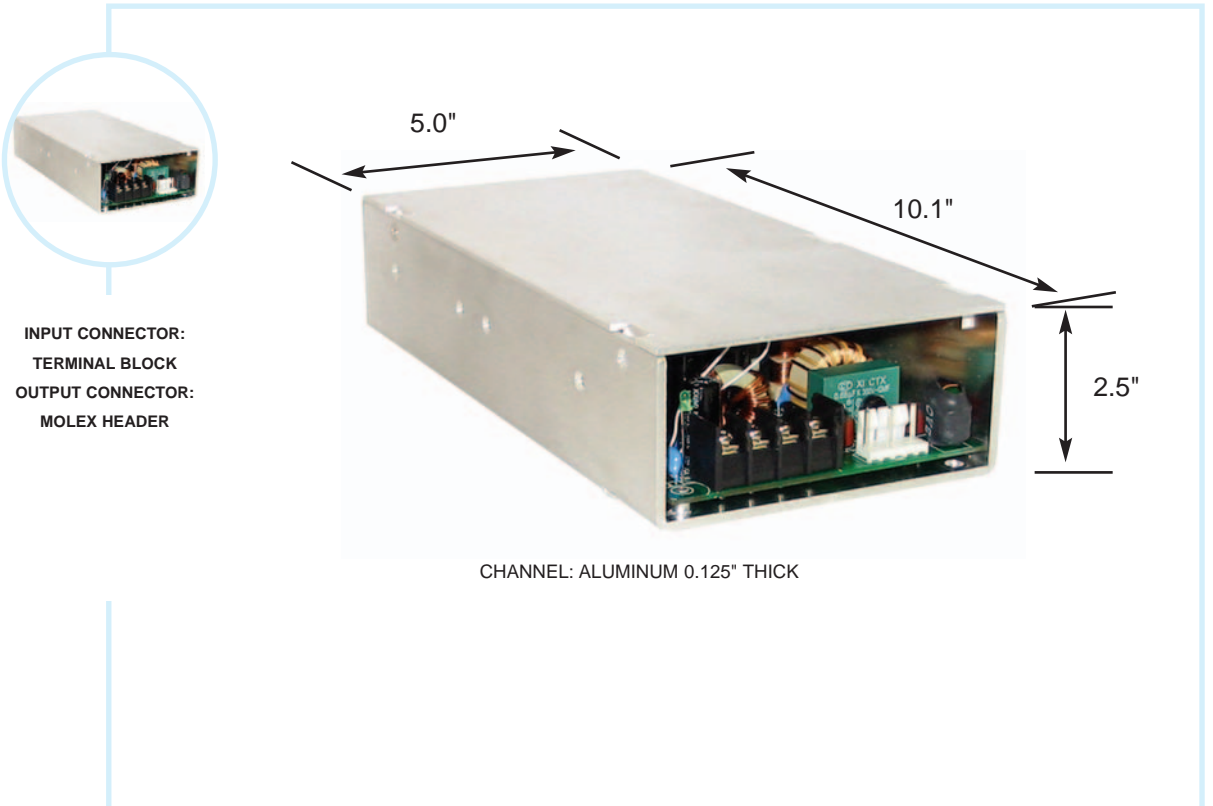
**OUTPUT VOLTAGE / CURRENT:  
CLASS I MODELS, PROTECTIVE GROUND  
CLASS II MODELS, DOUBLE INSULATED**

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM(P)9250-25015-X.X	+15.0	0 - 16.7	0 - 250
GTM(P)9250-25018-X.X	+18.0	0 - 13.9	0 - 250
GTM(P)9250-25024-X.X	+24.0	0 - 10.2	0 - 250
GTM(P)92500-25036-X.X	+36.0	0 - 6.9	0 - 250
GTM(P)9250-25048-X.X	+48.0	0 - 5.2	0 - 250

### ENCLOSURE

#### CONFIGURATION:

ENCLOSED SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOW BELOW.



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





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### Uninterruptible Switchmode Power Supply

**INPUT VOLTAGE:**

115 OR 230VAC OR 115/230VAC SELECTED

**INPUT FREQUENCY:**

60/50HZ

**INPUT POWER FACTOR:**

0.65

**INPUT VOLTAGE RANGE:**

90~130 OR 180~260VAC , SINGLE PHASE.

**INPUT FREQUENCY RANGE:**

47 HZ TO 63 HZ MAX.

**INPUT AC CURRENT :**

6.5A MAX. @ 115VAC OR 3.5A MAX. @230VAC, FULL LOAD.

**INRUSH CURRENT :**

AT 130/264 VAC, FULL LOAD CONDITION, NO DAMAGE OCCUR,  
INPUT FUSE SHALL NOT BLOW.

**EFFICIENCY:**

65% MIN. AT NOMINAL LINE INPUT FILL LOAD.

**SURGE PROTECTION:**

YES

**OUTPUT AC VOLTAGE:**

115 OR 230VAC; + 12 V / 8 A; + 5 V / 20 A; +3.3 V / 14A

**TOTAL OUTPUT:**

125W; -12 V / 2.0A; -5 V / 0.4A

**OUTPUT DC CURRENT:**

+5V STAND BY / 0.75A

**WEIGHT:**

5 KGS (WITH BP5C-2425 BATTERY PACK )

**OVER VOLTAGE PROTECTION:**

YES

**OVER POWER PROTECTION:**

YES >105%~135%

**CAPACITY:**

500VA

**AC OUTPUT VOLTAGE (TO MONITOR):**

115VAC / 230VAC

**AC OUTPUT WAVEFORM:**

STEP SINE WAVE

**AC INPUT VOLTAGE:**

TRANSFER POINT  
( UNDERVOLT ) HALF LOAD

**FROM NORMAL TO BACKUP:**

85V / 170 VAC

**FROM BACKUP TO NORMAL:**

95V / 190VAC

**AC INPUT VOLTAGE TRANSFER POINT ( OVERVOLT ):**

**PROTECTION:**

FUSE

**TRANSFER TIME:**

0 MS FOR DC OUTPUT(COMPUTER)

**SYSTEM BACKUP TIME( BACKUP FOR A PC SYSTEM ):**

10 MINUTES FOR LONGER BACKUP TIME CAN USE OTHER

**BATTERY PACK**

**RECHARGE TIME:**

10~15 HOURS

**BATTERY VOLTAGE MONITORING LED DISPLAY, BUZZER**

**SAFETY:**

UL, C-UL(CSA), CE APPROVED.

**RISE TIME:**

100MS MAX. AT NOMINAL LINE FULL LOAD.

**HOLD UP TIME:**

16MS MIN. FOR +5V OUTPUT AT NOMINAL LINE FULL LOAD.

**TRANSIENT OVERSHOOT:**

10% MAX. OF STEADY STATE AFTER LOAD CHANGE OF 25%  
WITHIN THE

RANGE OF 50% TO 100% OF FULL LOAD.

**TEMPERATURE COEFFICIENT:**

0.03% PER /MAX.

**OVER-LOAD PROTECTION ( O.L.P.):**

FOR OVER-LOAD, SPS LOAD OVER105%~135% WILL AUTO-  
SHUTDOWN.

**SHORT CIRCUIT PROTECTION:**

USPS CAN PROTECT ALL DC OUTPUTS ON THE SWITCHING  
POWER SUPPLY IF SHORT CIRCUIT IS  
HAPPENED.

**OPERATING TEMPERATURE :**

0 TO 50 , LINEAR DEPARTING TO 50% LOAD AT 70 .

**OPERATING RELATIVE HUMIDITY :**

20% TO 90%.

**STORAGE TEMPERATURE :**

-20 TO +60 .

**STORAGE RELATIVE HUMIDITY :**

5% TO 95%

**ALTITUDE :**

OPERATE PROPERLY AT ANY ALTITUDE BETWEEN  
0 TO 10,000 FT.

**STORAGE ALTITUDE :**

40,000 FEET.

**VIBRATION :**

0.38 M/M, 5-55-5 HZ, 7 MINUTES PER CYCLE; 30 MINUTES  
FOR EACH AXIS(X,Y,Z)

**BURN-IN :**

45 MAX. LOAD 24 HOURS.

**M.T.B.F. :**

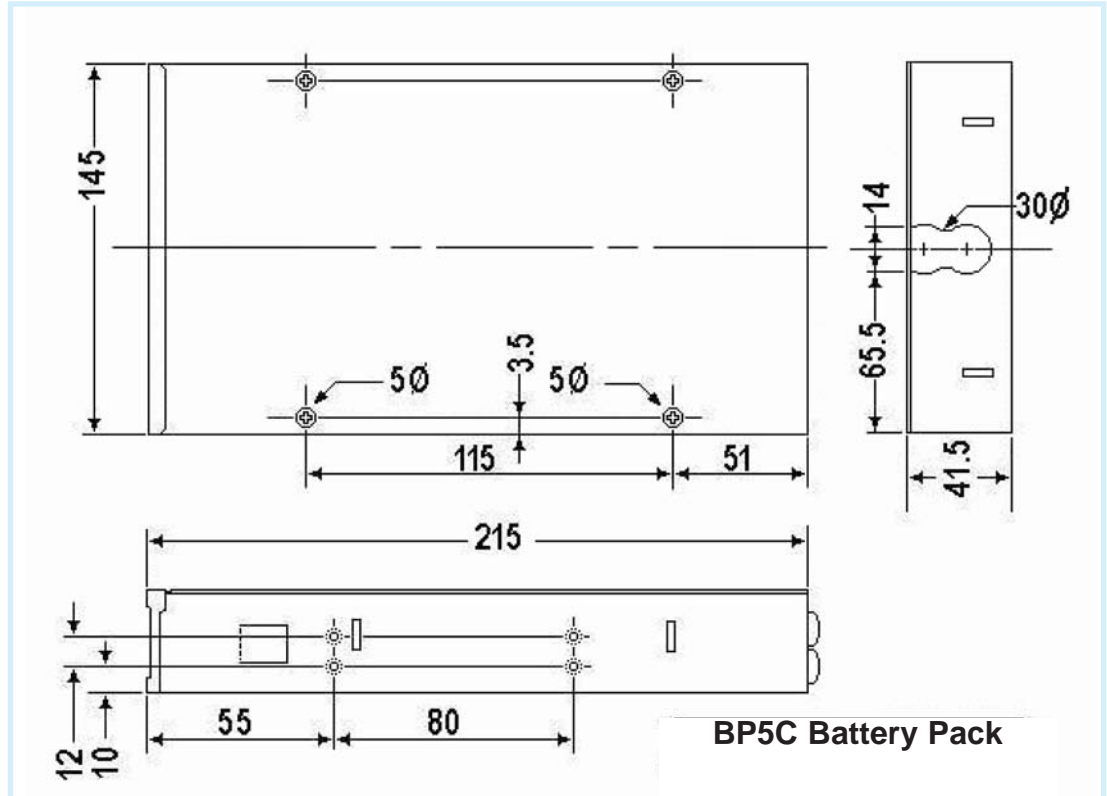
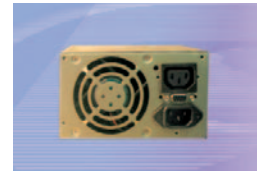
50,000 HR.



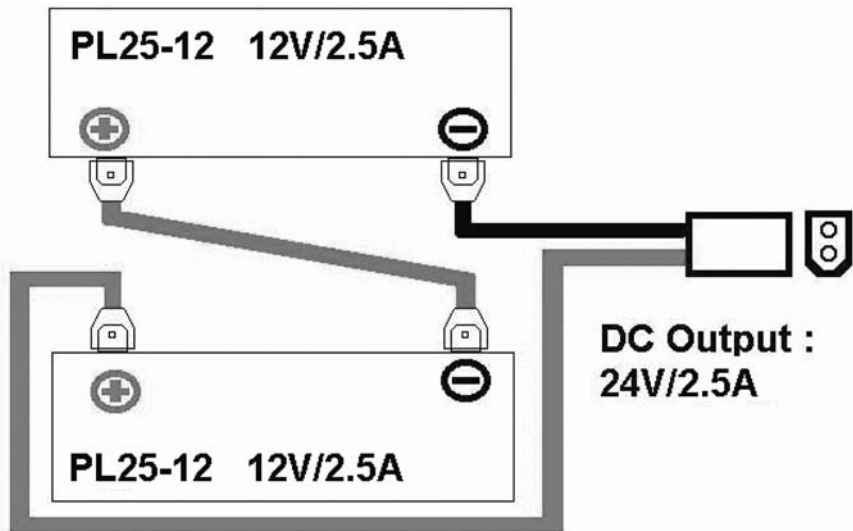


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Uninterruptible Switchmode Power Supply



Battery Pack Inside Connection



Battery Specifications

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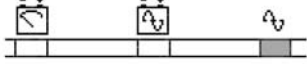
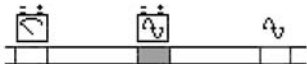
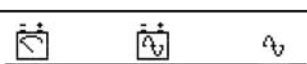
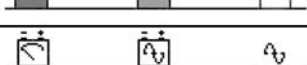


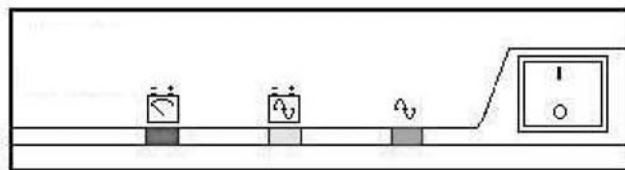
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*Uninterruptible Switchmode Power Supply*



BP-5C LED Indication and Alarm Table		
Utility States	LED Indicator state	Buzzer state
Normal		
Blackout, UPS On (24~21.5V)		Beep.. Beep.. Beep .. ( 3 seconds Interval )
Battery Low (21.5~18.5V)		Beep..... ( sounds quickly and short )
AC Normal / Battery Fail		



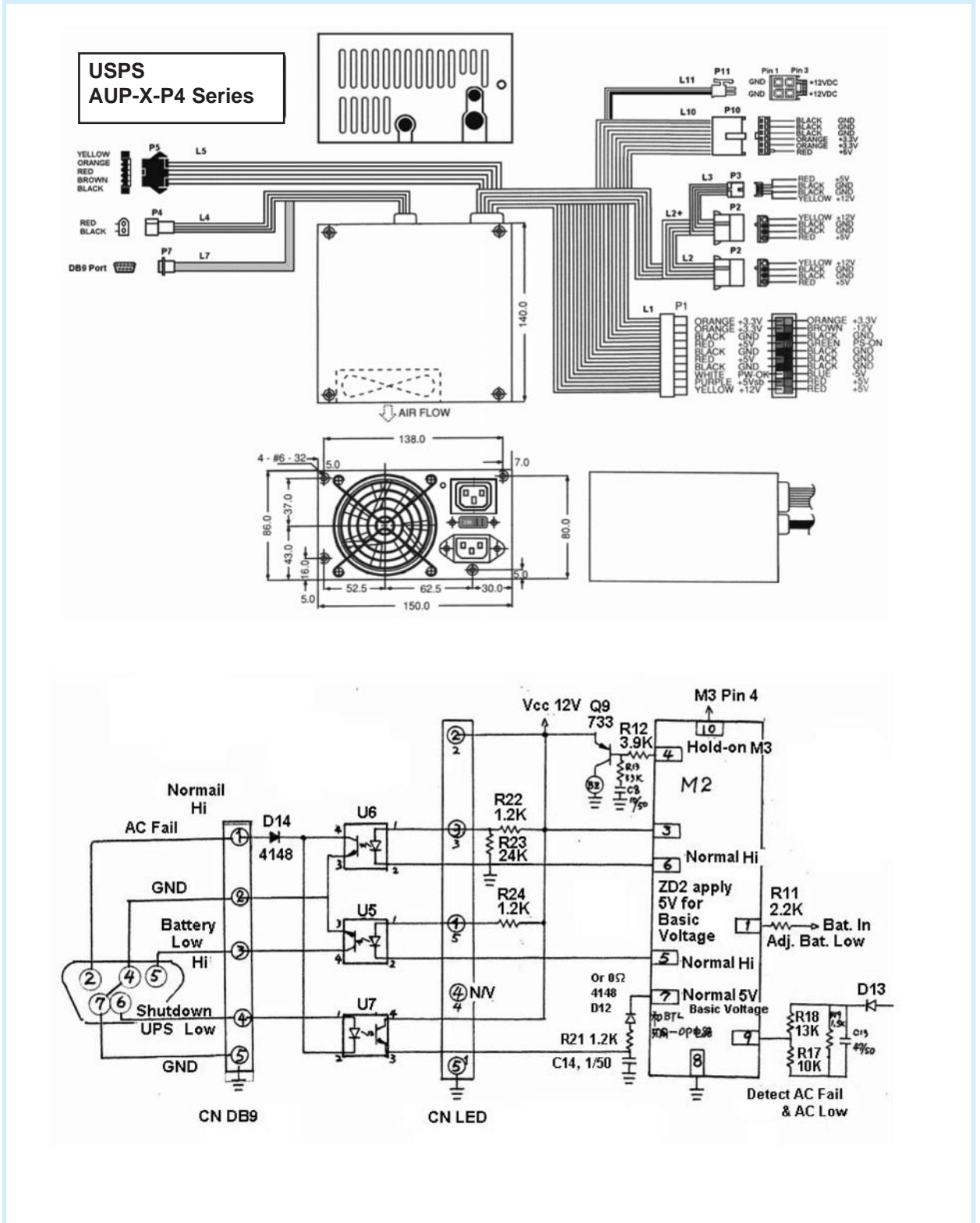
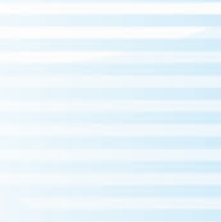
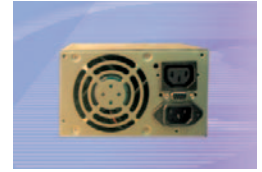
**BATTERY PACK : BP-5C**



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USPS GAUPX-250-P4 SERIES-250W

Uninterruptible Switchmode Power Supply



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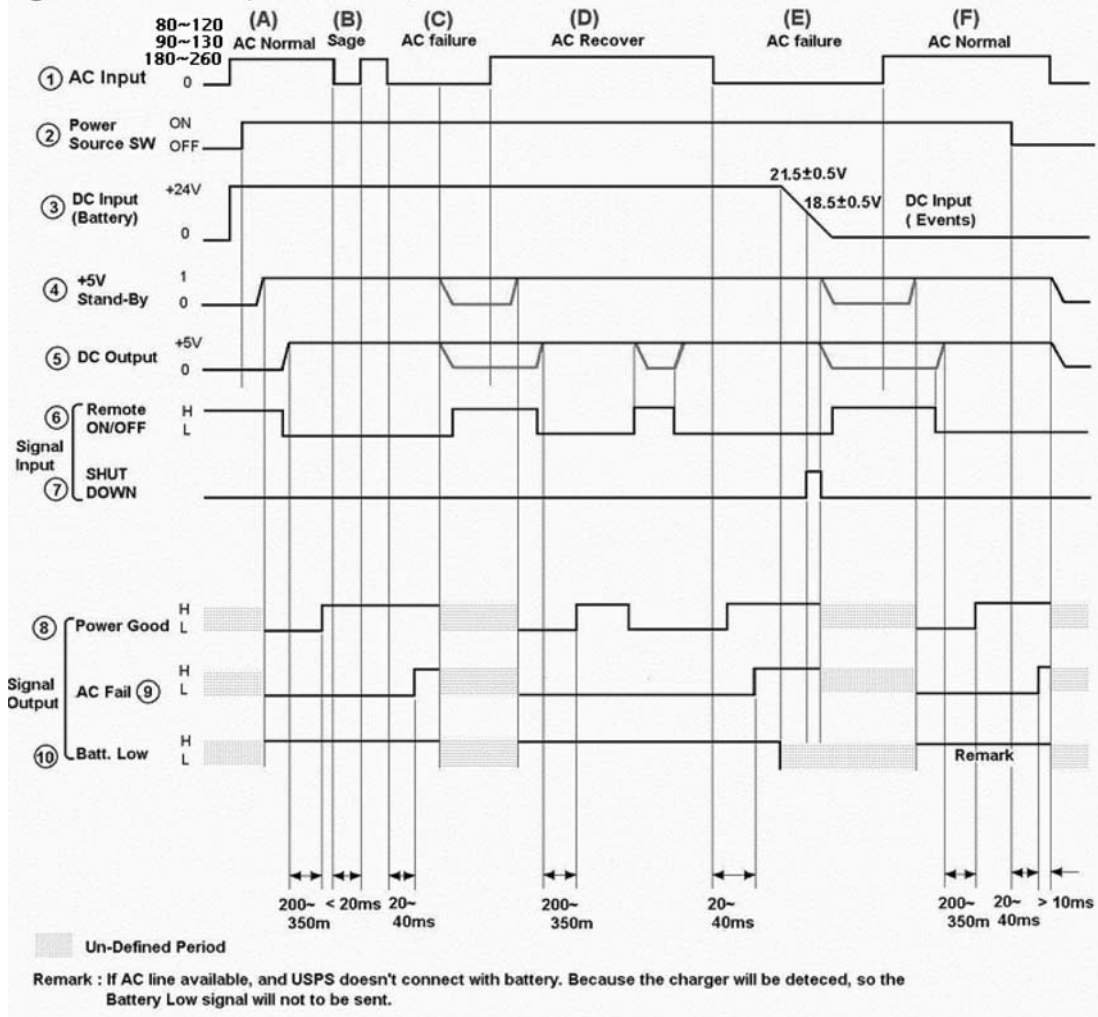
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Uninterruptible Switchmode Power Supply



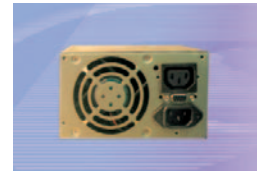
● TIME CHART (AUP-X Series)





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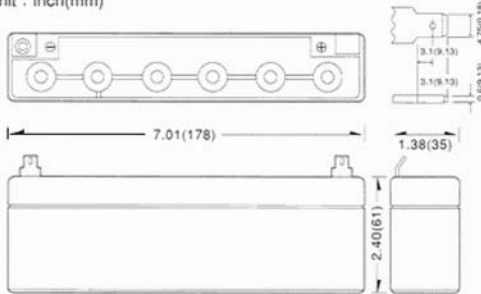
Uninterruptible Switchmode Power Supply



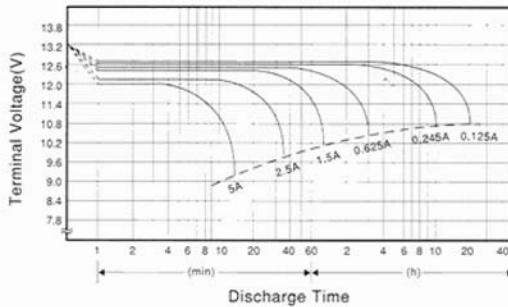
■ Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		2.5 Ah
Dimensions	Total Height (with terminals)	2.60 inches ( 66 mm)
	Height	2.40 inches ( 61 mm)
	Length	7.01 inches ( 178 mm)
	Width	1.38 inches ( 35 mm)
Weight		Approx. 1.76 lbs (800g)

Unit : inch(mm)



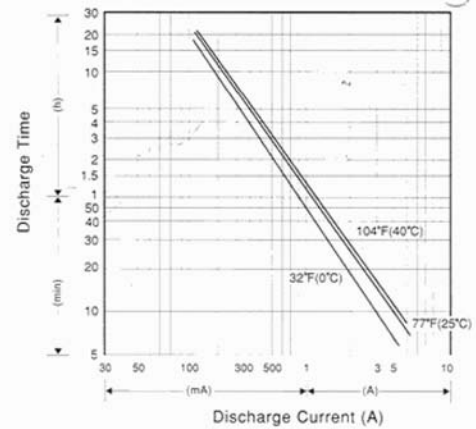
Discharge curves 77°F(25°C)\*



■ Characteristics

Capacity* 77°F (25°C)	20 hour rate ( 125 mA)	2.50Ah
	10 hour rate ( 245 mA)	2.45Ah
Internal Resistance	5 hour rate ( 400 mA)	2.00Ah
	1 hour rate ( 1630 mA)	1.63Ah
	1.5 hour discharge to 10.5V	1.2Ah
Internal Resistance	Full Charged Battery 77°F(25°C)	35mΩ
Capacity affected by Temperature (20hour rate)	104°F ( 40°C)	102%
	77°F ( 25°C)	100%
	32°F ( 0°C)	80%
	5°F ( -15°C)	62%
Self-Discharge 77°F (25°C)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	80%
	Capacity after 9 month storage	62%
Charge (Constant Voltage)	Cycle	Initial Charge Current less than 0.9 A
	Stand By	Voltage 14.6~15.0V / 12V 77°F(25°C)
		Voltage 14.0~14.5V / 12V 77°F(25°C)

■ Discharging Current & Discharge Duration Time



\*The above data are average values, and can be obtained within 3 charge / discharge cycles. These are not minimum values.



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### Uninterrupted Switchmode Power Supply

**INPUT VOLTAGE:**

115

**INPUT FREQUENCY:**

60 HZ

**INPUT POWER FACTOR:**

0.65

**INPUT VOLTAGE RANGE:**

80~120, 90~130 OR 180~260 VAC, SINGLE PHASE.

**INPUT FREQUENCY RANGE:**

47 TO 63 HZ.

**INPUT AC CURRENT :**

6.5A MAX. @ 115 (100) VAC OR 3.5A MAX. @ 230VAC, FULL LOAD.

**INRUSH CURRENT :**

AT 120/130/264 VAC, FULL LOAD CONDITION, NO DAMAGE OCCUR, INPUT FUSE SHALL NOT BLOW.

**EFFICIENCY:**

65% MIN. AT NOMINAL LINE INPUT FILL LOAD.

**SURGE PROTECTION:**

YES

**OUTPUT AC VOLTAGE:**

115 VAC; + 12 V / 11 A; + 5 V / 25 A; +3.3 V / 14A

**TOTAL OUTPUT:**

150W; -12 V / 0.4A; -5 V / 0.4A

**OUTPUT DC CURRENT:**

+5V STAND BY / 0.75A

**WEIGHT:**

5 KGS (WITH BP5C-2425 BATTERY PACK )

**OVER VOLTAGE PROTECTION:**

YES

**OVER POWER PROTECTION:**

YES >125%

**CAPACITY:**

500VA

**AC OUTPUT VOLTAGE (TO MONITOR):**

115VAC / 230VAC AND 55 +/- 2HZ

**AC OUTPUT WAVEFORM:**

STEP SINE WAVE

**AC INPUT VOLTAGE:**

TRANSFER POINT (UNDERVOLT)

**FROM NORMAL TO BACKUP:**

80V / 85V / 170 VAC

**FROM BACKUP TO NORMAL:**

90V / 95V / 190VAC

**AC INPUT VOLTAGE TRANSFER POINT ( OVERVOLT )**

**PROTECTION:**

FUSE

**TRANSFER TIME:**

0 MS FOR DC OUTPUT (COMPUTER)

**SYSTEM BACKUP TIME( BACKUP FOR A PC SYSTEM ):**

10 MINUTES FOR LONGER BACKUP TIME CAN USE OTHER BATTERY PACK

**RECHARGE TIME:**

10~15 HOURS

**SAFETY:**

**RISE TIME:**

100MS MAX. AT NOMINAL LINE FULL LOAD.

**HOLD UP TIME:**

16MS MIN. FOR +5V OUTPUT AT NOMINAL LINE FULL LOAD.

**TRANSIENT OVERSHOOT:**

10% MAX. OF STEADY STATE AFTER LOAD CHANGE OF 25% WITHIN THE RANGE OF 50% TO 100% OF FULL LOAD.

**TEMPERATURE COEFFICIENT:**

0.03% PER °C/MAX.

**OVER VOLTAGE PROTECTION (O.V.P.):**

WHEN THE MAJOR OUTPUT VOLTAGE +5V, +3.3V ARE OVER +6.5V, +4.2V, THE USPS WILL AUTO SHUTDOWN.

**OVER-LOAD PROTECTION ( O.L.P.):**

FOR OVER-LOAD, USPS LOAD OVER 125% WILL AUTO-SHUT DOWN.

**SHORT CIRCUIT PROTECTION:**

USPS CAN PROTECT ALL DC OUTPUTS ON THE SWITCHING POWER SUPPLY IF SHORT CIRCUIT OCCURS.

**OPERATING TEMPERATURE :**

0° C TO 50° C, LINEAR DEPARTING TO 50% LOAD AT 70°C

**OPERATING RELATIVE HUMIDITY :**

20% TO 90%

**STORAGE TEMPERATURE :**

-20° C TO +60° C

**STORAGE RELATIVE HUMIDITY :**

5% TO 95%

**ALTITUDE :**

OPERATE PROPERLY AT ANY ALTITUDE BETWEEN 0 TO 10,000 FEET.

**STORAGE ALTITUDE :**

40,000 FEET

**VIBRATION :**

0.38 M/M, 5-55-5 HZ, 7 MINUTES PER CYCLE; 30 MINUTES FOR EACH AXIS (X, Y, Z)

**BURN-IN :**

45° C MAX. LOAD 24 HOURS

**M.T.B.F. :**

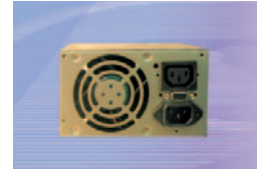
50,000 HR



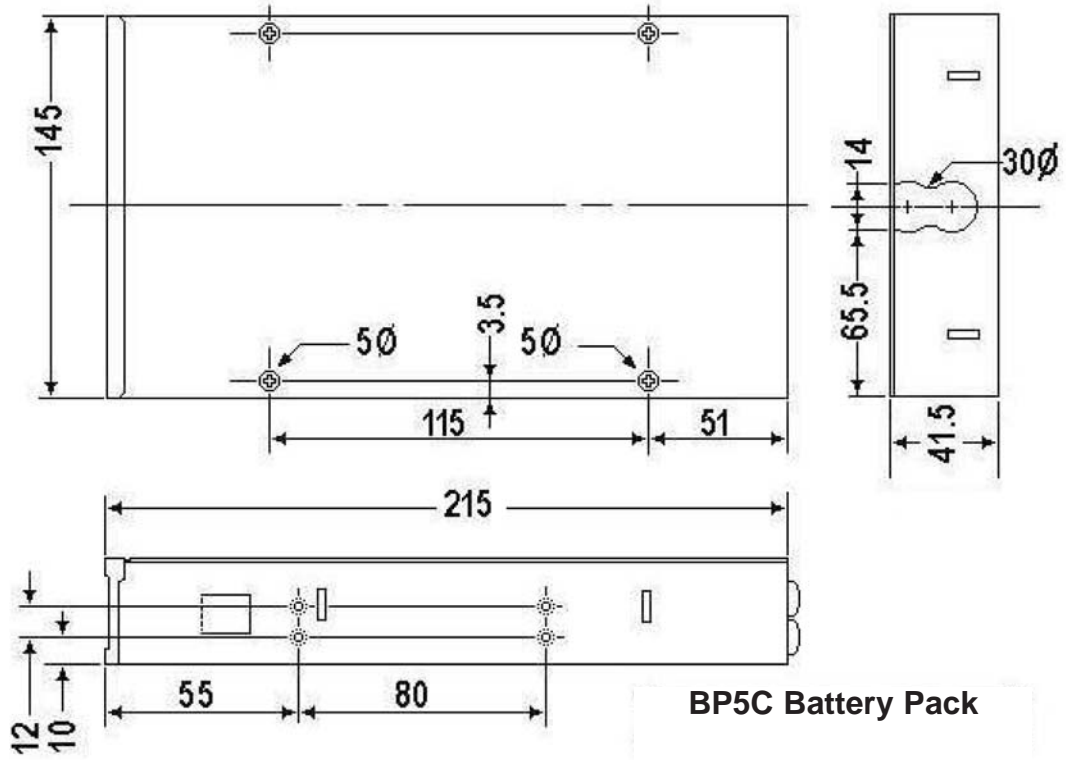


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Uninterruptible Switchmode Power Supply



### BP5C-2425 Battery Pack



BP5C Battery Pack

#### CABLE PIN ASSIGNMENT

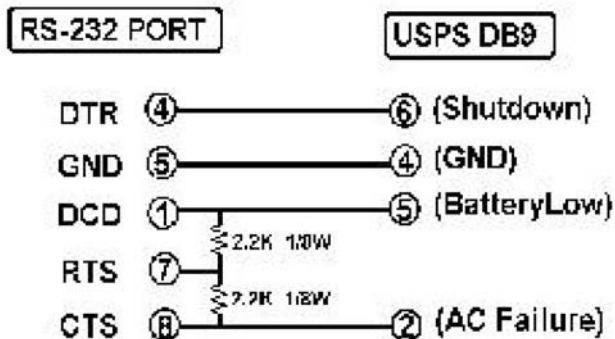
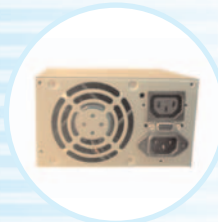
CABEL	COLOR	Assignment
(P4)	BLACK	GND
	RED	+24VDC
(P5)	RAINBOW	LED
(P6)	WHITE	DC ON/OFF
	WHITE	
	BLACK	AC ON/OFF
	BLACK	

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





Uninterrupted Switchmode Power Supply



GlobTek USPS, for Windows NT 4.0 UPS module cable connection diagram. The Windows NT UPS module configuration as "03", "02", "04"

(1) Pin Assignment of Pin ② ⑤ ⑥

Pin	Normal	Active
②	High (1.7~1.8V)	Low (0V)
⑤	High (1.7~1.8V)	Low (0V)
⑥	Low (0V)	+12V input

UPS Working Indications

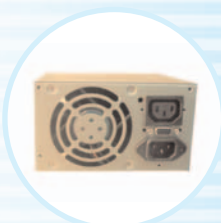
Utility States	LED Indicator state	Buzzer state
Normal		
Blackout, UPS On (24~21.5V)		Beep... Beep... Beep... (3 second Interval)
Battery Low (21.5~18.5V)		Beep..... (sounds quickly and short)
AC Normal / Battery Fail		

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

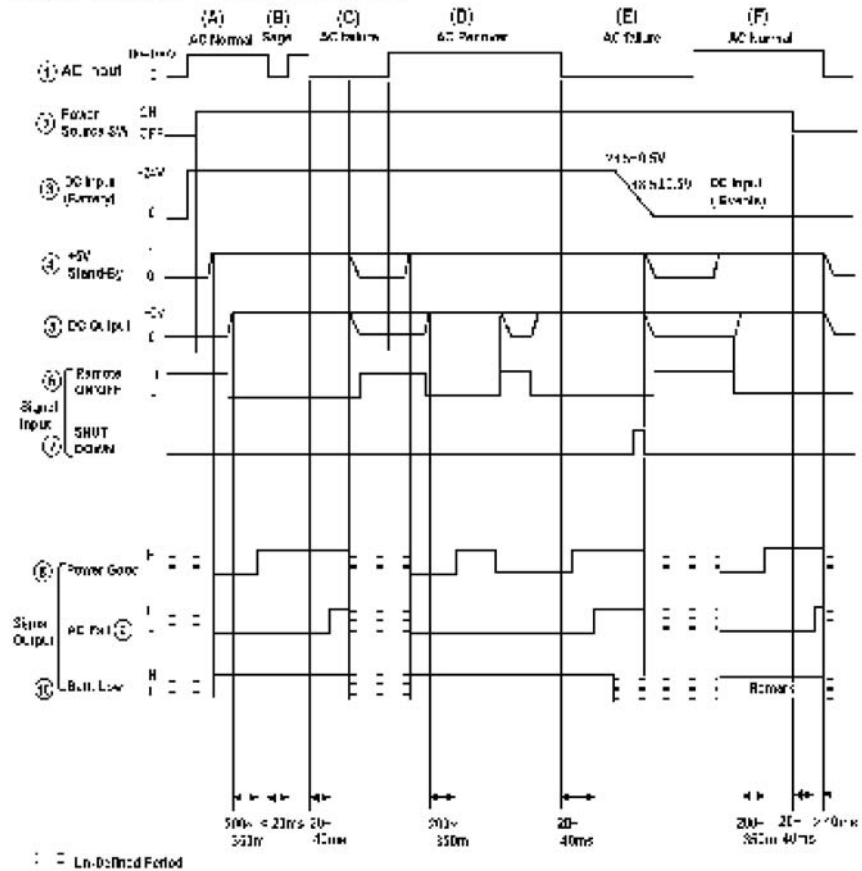


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Uninterruptible Switchmode Power Supply



● TIME CHART-GAUP-X Series



Remark: If AC line available, and UPS doesn't connect with battery. Because the charge in the circuit, on the Battery Low signal will not to be sent.



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## Uninterruptible Switchmode Power Supply



### INPUT VOLTAGE:

115

### INPUT FREQUENCY:

60Hz

### INPUT POWER FACTOR:

0.65

### INPUT VOLTAGE RANGE:

80~120, 90~130 or 180~260 VAC, single phase.

### INPUT FREQUENCY RANGE:

47 to 63 Hz

### INPUT AC CURRENT :

6.5A Max. @ 115 (100) VAC or 3.5A Max. @ 230VAC, Full load.

### INRUSH CURRENT :

At 120/130/264 VAC, Full load condition, no damage occur, input fuse shall not blow.

### EFFICIENCY:

65% Min. at nominal line input fill load.

### SURGE PROTECTION:

Yes

### OUTPUT AC VOLTAGE:

115VAC / 230VAC and 55 +/- 2Hz

### TOTAL OUTPUT:

150W.

-12 V / 0.4A

-5 V / 0.4A

### OUTPUT DC CURRENT:

+5V Stand By / 0.75A

### WEIGHT:

5 KGs (with BP5C-2425 Battery Pack )

### OVER VOLTAGE PROTECTION:

Yes

### OVER POWER PROTECTION:

Yes >125%

### CAPACITY:

500VA

### AC OUTPUT VOLTAGE (TO MONITOR):

115 VAC

+ 12 V / 11 A

+ 5 V / 25 A

+3.3 V / 14A

### AC OUTPUT WAVEFORM:

Step Sine Wave

### AC INPUT VOLTAGE:

(Undervolt)

### FROM NORMAL TO BACKUP:

80V / 85V / 170 VAC

### FROM BACKUP TO NORMAL:

90V / 95V / 190VAC

### AC INPUT VOLTAGE TRANSFER POINT ( OVERVOLT )

### PROTECTION:

FUSE

### TRANSFER TIME:

0 ms for DC output (computer)

### SYSTEM BACKUP TIME( BACKUP FOR A PC SYSTEM ):

10 minutes for longer backup time can use other

battery pack

### RECHARGE TIME:

10~15 hours

### SAFETY:

### RISE TIME:

100ms Max. at nominal line full load.

### HOLD UP TIME:

16ms Min. for +5V output at nominal line full load.

### TRANSIENT OVERSHOOT:

10% Max. of steady state after load change of 25% within the range of 50% to 100% of full load.

### TEMPERATURE COEFFICIENT:

0.03% per °C/Max.

### OVER VOLTAGE PROTECTION (O.V.P.):

When the major output voltage +5V, +3.3V are over +6.5V, +4.2V, the USPS will auto shutdown.

### OVER-LOAD PROTECTION ( O.L.P.):

For over-load, USPS load over 125% will auto-shutdown.

### SHORT CIRCUIT PROTECTION:

USPS can protect all DC outputs on the switching power supply if short circuit occurs.

### OPERATING TEMPERATURE :

0°C to 50°C, linear departing to 50% load at 70°C.

### OPERATING RELATIVE HUMIDITY :

20% to 90%.

### STORAGE TEMPERATURE :

-20°C to +60°C.

### STORAGE RELATIVE HUMIDITY :

5% to 95%

### ALTITUDE :

Operate properly at any altitude between 0 to 10,000 feet.

### STORAGE ALTITUDE :

40,000 feet.

### VIBRATION :

0.38 m/m, 5-55-5 Hz, 7 minutes per cycle; 30 minutes for each axis (x, y, z)

### BURN-IN :

45°C max. Load 24 hours.

### M.T.B.F. :

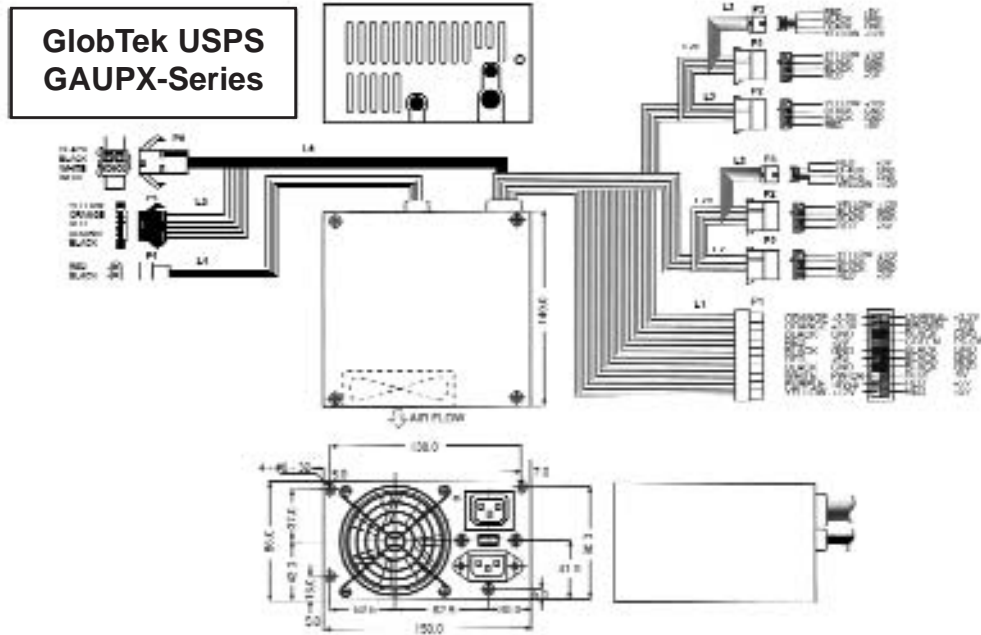
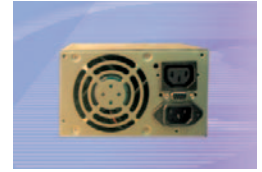
50,000 hr.





ISO 9001:2000  
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Uninterruptible Switchmode Power Supply



CABLE PIN ASSIGNMENT

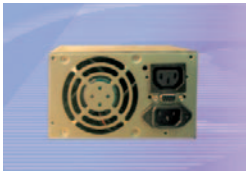
CABLE	COLOR	ASSIGNMENT
(P4)	BLACK	GND
	RED	+24VDC
	RAINBOW	LED
(P5)	WHITE	DC ON/OFF
	WHITE	DC ON/OFF
	BLACK	AC ON/OFF
(P6)	BLACK	AC ON/OFF
	BLACK	AC ON/OFF

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

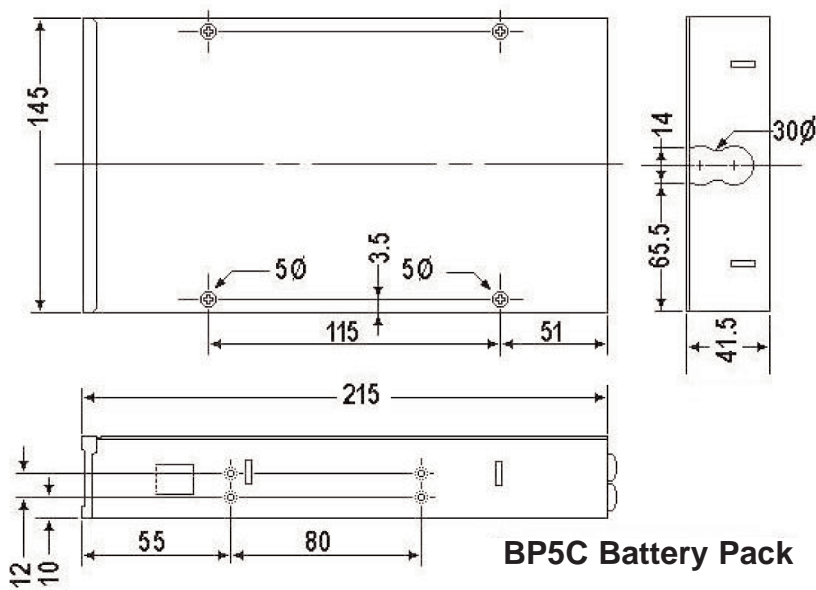


ISO 9001:2000  
REGISTERED

Uninterruptible Switchmode Power Supply

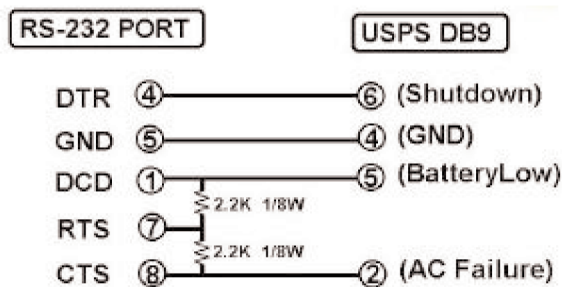


BP5C-2425 Battery Pack



BP5C Battery Pack

RUPS Backup Utility Hardware Configuration



GlobTek USPS, for Windows NT 4.0 UPS module cable connection diagram. The Windows NT UPS module configuration as “-”, “-”, “+”

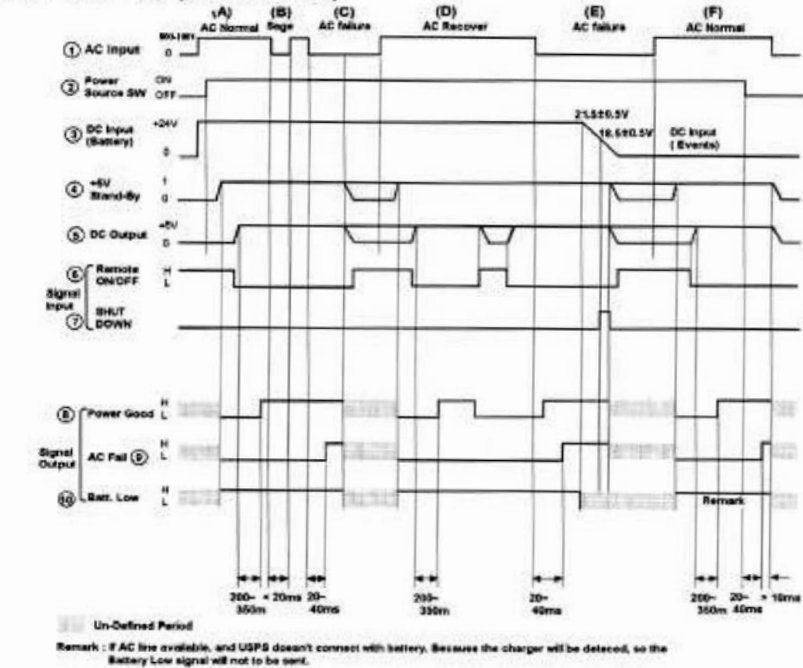


ISO 9001:2000  
REGISTERED

Uninterruptible Switchmode Power Supply



● TIME CHART (GAUPX Series)





ISO 9001:2000  
REGISTERED



**300 Watts, Switchmode Power Supply,  
Enclosed, Universal Input, Active PFC**

FOR INDOOR USE ONLY

**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**  
90 VAC TO 264 VAC

**INPUT CURRENT:**  
< 6A RMS AT 90 VAC INPUT

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED

**OUTPUT POWER (RATED):**  
300 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
≤ 200 mV

**OUTPUT REGULATION (LINE/LOAD):**  
± 1 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR

**LINE REGULATION:**  
± 0.5 % MAX AT FULL LOAD

**ADJUSTABILITY:**  
± 10%

**TURN ON/ TURN OFF OVERSHOOT:**  
4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX , SOFT START

**HOLD-UP TIME:**  
20 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

**INRUSH CURRENT:**  
15 A MAX AT COLD START FOR N.A. (30A FOR EURO)

**EFFICIENCY:**  
75 % TYPICAL

**POWER FACTOR:**  
ACTIVE POWER FACTOR CORRECTION FRONT STAGE;

**PFC:**  
0.98 @ 115VAC; 0.95 @ 230VAC

**SWITCHING FREQUENCY:**  
100 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
VOLTAGE LIMITED LESS 135% OF NOMINAL VOLTAGE

**OVER-CURRENT / SHORT CIRCUIT:**  
1.05-1.35 CONSTANT CURRENT LIMITING WITH AUTO RECOVERY

**OTHER PROTECTION:**  
INPUT FUSING; OVER-TEMPERATURE (110°C) - OPTIONAL

**SAFETY APPROVALS:**  
UL 60950 / 1950, CUL TO 22.2 # 234, 950, TUV TO EN 60950, CE CLASS I

**DIELECTRIC WITHSTAND VOLTAGE:**

3000VAC PRIMARY-SECONDARY;1500 VAC PRIMARY- GROUND

**LEAKAGE CURRENT:**

≤ 3.5 mA

**LINE SURGE:**

EN 61000-4-5 LEVEL 4

**EMI:**

COMPLIES WITH EN55022, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

**CE MARK:**

TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**

GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE

**OPERATING TEMPERATURE:**

0°C TO 40° C, DERATE LINEARY TO 50% OUTPUT POWER AT 70°C FORCED CONVECTION COOLING; INTEGRAL FAN WITH SPEED CONTROL

**STORAGE TEMPERATURE:**

-40°C TO 80° C

**HUMIDITY:**

0% TO 90% RELATIVE HUMIDITY

**NOTES:**

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.



**OUTPUT VOLTAGE / CURRENT:**

PART NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTP-300-5	+ 5	50	300
GTP-300-7.5	+ 7.5	34	300
GTP-300-12	+ 12	24	300
GTP-300-13.5	+ 13.5	21	300
GTP-300-15	+ 15	19	300
GTP-300-24	+ 24	12.5	300
GTP-300-27	+ 27	11	300
GTP-300-48	+ 48	6.25	300

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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## GTP-300 SERIES-300W


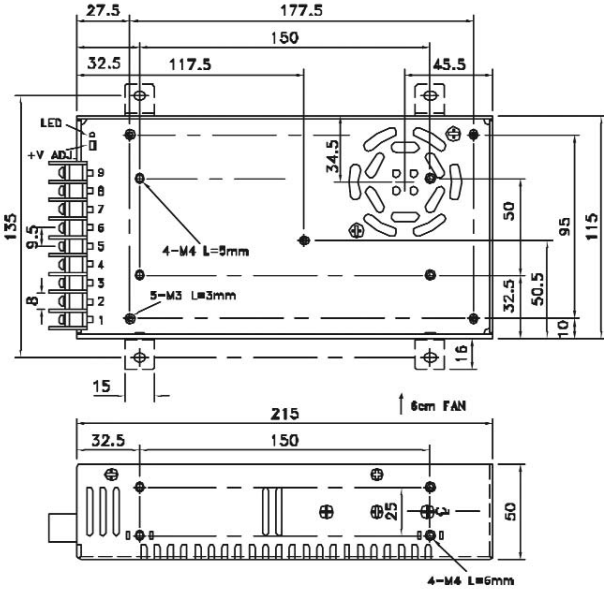
300 Watts, Switchmode Power Supply,  
Enclosed, Universal Input, Active PFC



FOR INDOOR USE ONLY

FC CB UL CE

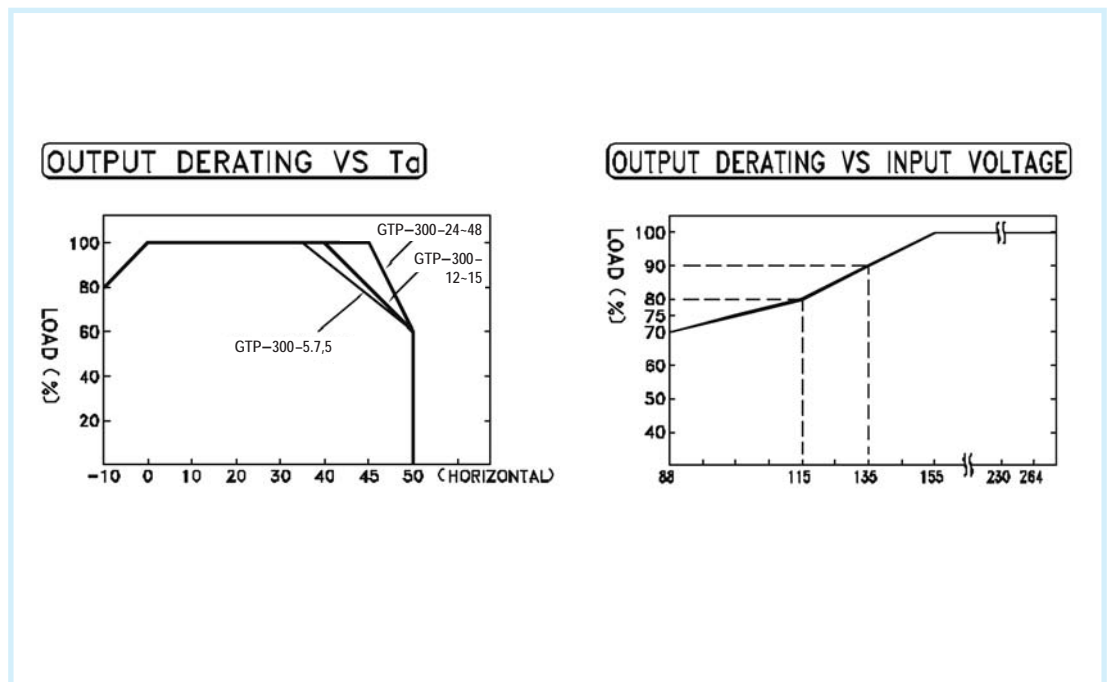
### ENCLOSURES

**PIN ASSIGNMENT**

PIN NUMBER	ASSIGNMENT
PIN #1	AC INPUT
PIN #2	AC INPUT
PIN #3	FG
PIN #4	DC OUTPUT -V
PIN #5	DC OUTPUT -V
PIN #6	DC OUTPUT -V
PIN #7	DC OUTPUT +V
PIN #8	DC OUTPUT +V
PIN #9	DC OUTPUT +V

### CHARTS



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

### 400 Watts, Switchmode Power Supply, Universal Input, Hot Swappable, N+1

**ELECTRICAL SPECIFICATIONS:****INPUT VOLTAGE:**

100 VAC TO 240 VAC

**INPUT CURRENT:**

&lt; 5.0 A RMS AT 115 VAC INPUT

**INPUT FREQUENCY:**

47 HZ - 63 HZ

**OUTPUT CURRENT:**

MULTI-OUTPUT NO MINIMUM LOAD

**OUTPUT POWER (RATED):**

400 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**

±1% MAXIMUM FOR 5V &amp; 12V, ±50mV FOR 3.3V

**OUTPUT REGULATION (LINE/LOAD):**

± 2% (3.3 AND 5V) ± 5% (12V) MEASURED AT OUTPUT CONNECTOR

**LINE REGULATION:**

± 0.5 % OUTPUT MEASURED AT OUTPUT CONNECTOR

**REMOTE SENSING (OPTION):**

REMOTE SENSING FOR ALL OUTPUT IMPLEMENTED.

**TURN ON/ TURN OFF OVERSHOOT:**

4% MAX 500µS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**

1 SEC MAX

**HOLD-UP TIME:**

16 mSEC MIN AT NOMINAL INPUT AND FULL LOAD

**INRUSH CURRENT:**

50 A MAX AT COLD START FOR N.A. (100A FOR EURO)

**EFFICIENCY:**

70 % TYPICAL

**POWER FACTOR:**

ACTIVE POWER FACTOR CORRECTOR 0.96 MINIMUM

**SWITCHING FREQUENCY:**

100 KHZ TYPICAL

**REDUNDANCY:**

UNIT CAN BE PARALLELED W/SIMILAR UNIT (1±1)

**CURRENT SHARING:**

±10% AT FULL LOAD

**REMOTE SENSING:**

REMOTE SENSING FOR ALL OUTPUT IMPLEMENTED

**REMOTE SHUTDOWN:**

REMOTE SHUTDOWN PIN IS AVAILABLE

**OVER-VOLTAGE PROTECTION:**

OUTPUT VOLTAGE SHUTDOWN -LATCHED (INPUT LINE RE-CYCLE REQUIRED) LESS 115% OF NOMINAL VOLTAGE.

**OVER-CURRENT / SHORT CIRCUIT:**

HICCUP WITH AUTO RECOVERY TO 1.1 - 1.2 IO

**OTHER PROTECTION:**

INPUT FUSING

**POWER FACTOR:**

ACTIVE POWER FACTOR CORRECTOR 0.96 MINIMUM

**SIGNAL:****DC OK SIGNAL:**

A "POWER GOOD" SIGNAL IS ASSERTED BY THE SUPPLY TO INDICATE THAT THE + 5VDC OUTPUT IS WITHIN REGULATION LIMITS.

**AC OK SIGNAL:**

AC OK SIGNAL IS ASSERTED HIGH 16 mS BEFORE THE DC OUTPUT COMES OUT OF REGULATION.

**INDICATOR:**

GREEN LED FOR AC OK, AMBER LED FOR DC OK.

**SAFETY APPROVALS:**

UL/cUL 60950 3-rd EDITION, DEMKO TO EN 60950, CB REPORT, CE

**DIELECTRIC WITHSTAND VOLTAGE:**

3000VAC PRIMARY-SECONDARY; 1500 VAC PRIMARY-GROUND

**INSULATION RESISTANCE:**

20 Mohm MIN. PRIMARY- SECONDARY-GROUND

**LEAKAGE CURRENT:**

≤ 3.5 mA

**LINE SURGE:**

EN 61000-4-5 LEVEL 2

**EMI:**

COMPLIES WITH EN55022, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

**CE MARK:**

TESTED TO COMPLY WITH EN61000-3-2 CLASS D, EN61000-3-3 AND EN50082 INCLUDING EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 LEVEL 4, UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**

GREATER THAN 100,000 HOURS AT 25°C AMBIENT TEMPERATURE, FULL - LOAD

**OPERATING TEMPERATURE:**

0°C TO 50° C

**STORAGE TEMPERATURE:**

-20°C TO 80° C

**HUMIDITY:**

0 TO 90% RELATIVE HUMIDITY

**COOLING:**

2 FANS USED FOR COOLING

**MODEL NUMBER CODE:**GT-: INTERNAL CODE;  
(P): POWER FACTOR CORRECTION, OPTIONAL  
2703 TO 6548: OUTPUT POWER / OUTPUT VOLTAGE  
F: OPEN FRAME OR B: PCB MOUNTED  
-: CLASS I PROTECTIVE GROUND OR W: CLASS II, DOUBLE INSULATED**NOTES:**

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

**OUTPUT VOLTAGE / CURRENT:**

CLASS I MODELS, PROTECTIVE GROUND

CLASS II MODELS, DOUBLE INSULATED

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-3T400P41F	+3.30	0 - 4.0	
	+5.00	0 - 34.0	
	+12.00	0 - 18.0	400 TOTAL

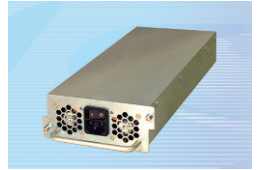
SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
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## GT-3T400P41F SERIES-400W

400 Watts, Switchmode Power Supply, Universal Input,  
Hot Swappable, N+1

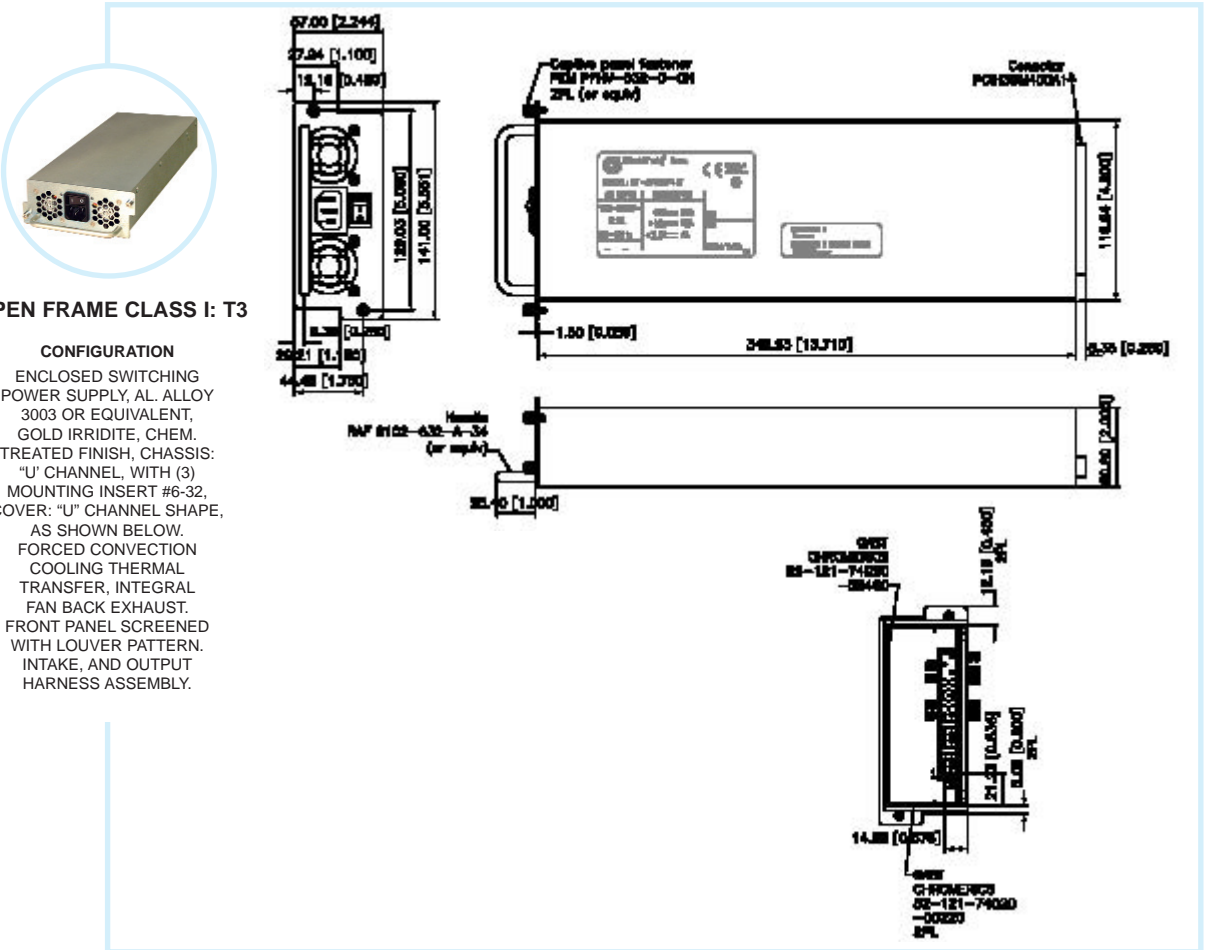


FOR INDOOR USE ONLY



### CONFIGURATION

OPEN FRAME SWITCHING POWER SUPPLY WITH MOUNTING HOLES POSITIONED AS BELOW



### OPEN FRAME CLASS I: T3

#### CONFIGURATION

ENCLOSED SWITCHING POWER SUPPLY, AL. ALLOY 3003 OR EQUIVALENT, GOLD IRRIDITE, CHEM. TREATED FINISH, CHASSIS: "U" CHANNEL, WITH (3) MOUNTING INSERT #6-32, COVER: "U" CHANNEL SHAPE, AS SHOWN BELOW. FORCED CONVECTION COOLING THERMAL TRANSFER, INTEGRAL FAN BACK EXHAUST. FRONT PANEL SCREENED WITH LOUVER PATTERN. INTAKE, AND OUTPUT HARNESS ASSEMBLY.

### IN/OUTPUT RATING & PIN ASSIGNMENT, CONNECTOR

### P/N:

#### INPUTS:

ASSIGNMENT	A.C.VOLTAGE	CURRENT	PIN #
L:	100 - 240V~		P1 - L
N:			P1 - N
GND:		50/60Hz	P1 - L

#### OUTPUTS:

ASSIGNMENT	D.C.VOLTAGE	CURRENT	PIN #
V01	+5V	35A	1, 2, 5, 6
V02	+12V	18A	9, 10, 13, 14
V03	+3.3V	4A	8

#### DC COM:

17, 18, 19, 20, 36, 37, 38

+5V CURRENT SHARE: 22

+12V CURRENT SHARE: 25

PC: 23

PD: Power Disable 24

+5V REMOTE SENSE: 21

+12V REMOTE SENSE: 27

+3.3V REMOTE SENSE: 28

FAN OK: 32

DC OK: 30

AC OK: 33

NC: 3, 4, 7, 11, 12, 15, 16, 26

29, 31, 34, 35

**MAXIMUM OUTPUT POWER: 400W**

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

ISO 9001:2000  
REGISTERED

PRELIMINARY

**500 Watts, Universal Input, Single Output Family,  
ITE Switchmodes**Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 123)

FOR INDOOR USE ONLY

**ELECTRICAL SPECIFICATIONS:****INPUT VOLTAGE:**

100 VAC TO 240 VAC

**INPUT CURRENT:**

6.0 A AT 90 VAC AND 3.0A AT 240 VAC MAXIMUM

**INPUT FREQUENCY:**

47 HZ - 63 HZ

**OUTPUT CURRENT:**NO MINIMUM LOAD CURRENT REQUIRED TO MAINTAIN  
REGULATION**OUTPUT POWER (RATED):**

500 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**

LESS THAN 1% OF THE NOMINAL OUTPUT VOLTAGE

**OUTPUT REGULATION (LINE/LOAD):**

± 2% MEASURED AT OUTPUT CONNECTOR

**LINE REGULATION:**

± 0.5 % OUTPUT MEASURED AT OUTPUT CONNECTOR

**REMOTE SENSING (OPTION):**

REMOTE SENSE OPTION FOR TIGHT OUTPUT REGULATION.

**TURN ON / TURN OFF OVERSHOOT:**4% MAX 500µs MAX RECOVERY TIME FOR 25% STEP  
LOAD**TURN-ON DELAY:**

1 SEC MAX

**HOLD-UP TIME:**

20mS TYPICAL AT 120VAC, 70mS TYPICAL AT 230VAC

**INRUSH CURRENT:**

40A MAXIMUM AT 120VAC AND 60A MAXIMUM AT 230VAC

**EFFICIENCY:**

75 % TYPICAL

**POWER FACTOR:**

0.8 TYP., CURRENT SHAPER PFC FRONT STAGE

**SWITCHING FREQUENCY:**

200 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**OUTPUT LIMITED BETWEEN 130 TO 150% OF NOMINAL LOAD,  
HICCUP MODE**OVER-CURRENT / SHORT CIRCUIT:**HICCUP MODE WITH AUTORECOVERY ONCE FAULT HAS  
BEEN REMOVED**OTHER PROTECTION:**DUAL FUSING, LINE AND NEUTRAL FOR MEDICAL GRADE AND  
LINE FUSING FOR ITE GRADE**SAFETY APPROVALS (PENDING):**

EN60950, UL60950

CB REPORT AND CE MARK

**DIELECTRIC WITHSTAND VOLTAGE:**

5656VDC (4000VAC) PRIMARY-SECONDARY;

2121VDC (1500VAC) PRIMARY- GROUND

**LEAKAGE CURRENT:**

≤ 300µA AT 240VAC

**LINE SURGE:**

EN 61000-4-5 LEVEL 4

**EMI:**COMPLIES WITH EN55022, CLASS B AND  
FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE  
LOAD, BOTH CONDUCTED AND RADIATED**CE MARK:**TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3,  
AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL),  
EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6,  
EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.**MTBF:**

100K HRS, ROOM TEMPERATURE, GROUND BENIGN

**OPERATING TEMPERATURE:**

0° TO 40°C

**STORAGE TEMPERATURE:**

-40°C TO 85°C

**HUMIDITY:**

NON-CONDENSING; 5% TO 90% RH

**MODEL NUMBER CODE:**

GT: INTERNAL CODE;

-: ITE MODEL, EN 60950

(P): POWER FACTOR CORRECTION, OPTIONAL

1653.3 TO 50048: OUTPUT POWER / OUTPUT VOLTAGE

F: OPEN FRAME OR B: PCB MOUNTED

-: CLASS I PROTECTIVE GROUND OR W: CLASS II, DOUBLE  
INSULATED**NOTES:**

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 3) CONDUCTED AND RADIATED EMI WHERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES.
- 4) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMICONDUCTOR CASE SHOULD EXCEED 130C
- 5) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID OSCILLATION OF THE POWER SUPPLY.
- 6) ALL MEASUREMENTS ARE PERFORMED AT 25C ROOM AMBIENT AND ARE TYPICAL.
- 7) GLOBTEK PRODUCTS ARE NOT AUTHORIZED TO BE USED AS MISSION CRITICAL COMPONENTS IN LIFE SUPPORT HAZARDOUS ENVIRONMENT, NUCLEAR OR AIRCRAFT APPLICATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE CEO OF GLOBTEK INC.
- 8) CONTENTS OF THIS DOCUMENTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

**OUTPUT VOLTAGE / CURRENT:**

CLASS I MODELS, PROTECTIVE GROUND

CLASS II MODELS, DOUBLE INSULATED

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-9500-1653.3-X.X	+3.30	0 - 60.0	0 - 160
GT-9500-30005-X.X	+5.00	0 - 80.0	0 - 400
GT-9500-50006-X.X	+6.00	0 - 53.3	0 - 300
GT-9500-5007.5-X.X	+7.50	0 - 40.0	0 - 300
GT-9500-50009-X.X	+9.00	0 - 55.6	0 - 500
GT-9500-50012-X.X	+12.0	0 - 41.7	0 - 500
GT-9500-50013.5-X.X	+13.50	0 - 37.0	0 - 500
GT-95200-50013.8-X.X	+13.8.0	0 - 36.2	0 - 500

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





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## GT-9500 SERIES-500W

### 500 Watts, Universal Input, Single Output Family, ITE Switchmodes

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)  
Medical Versions (See Page 123)

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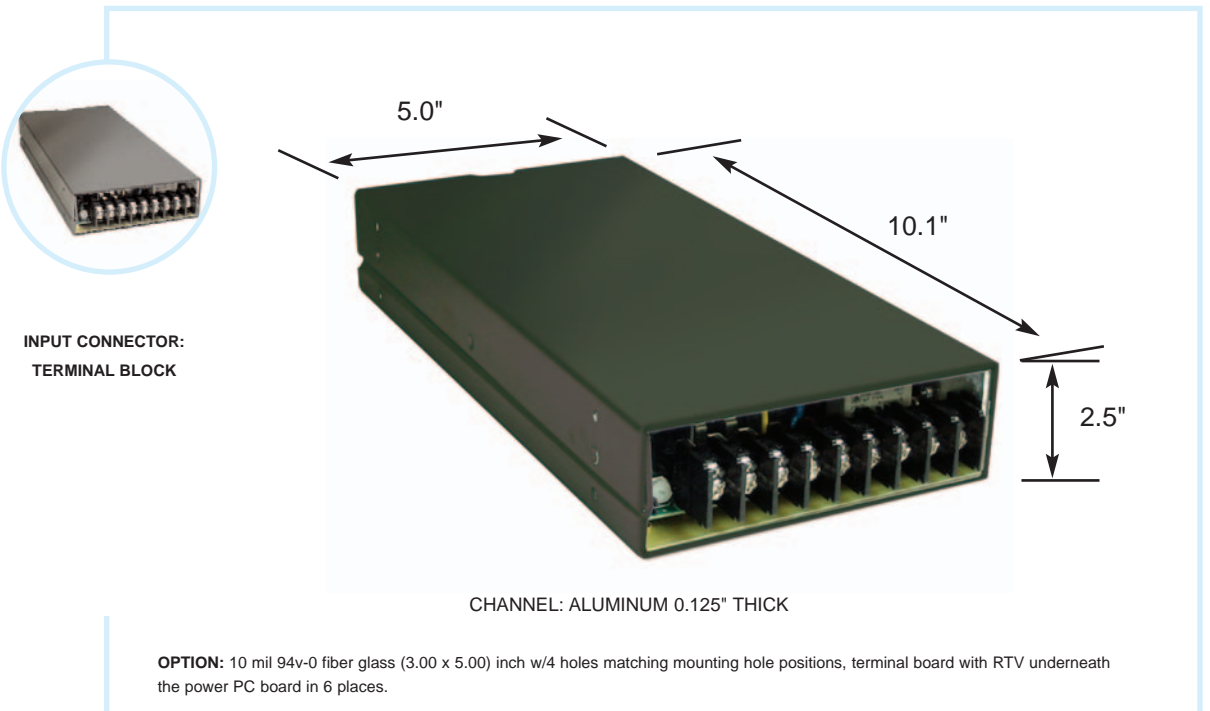


MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GT-9500-50015-X.X	+15.0	0 - 33.3	0 - 500
GT-9500-50018-X.X	+18.0	0 - 27.8	0 - 500
GT-9500-50024-X.X	+24.0	0 - 20.8	0 - 500
GT-95200-50036-X.X	+36.0	0 - 13.8	0 - 500
GT-9500-50048-X.X	+48.0	0 - 10.4	0 - 500

### ENCLOSURE

#### CONFIGURATION:

ENCLOSED SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOW BELOW.



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED



PRELIMINARY

**500 Watts, Universal Input, Single Output Family,  
Medical Grade Switchmodes**



FOR INDOOR USE ONLY

**ELECTRICAL SPECIFICATIONS:**

**INPUT VOLTAGE:**  
100 VAC TO 240 VAC

**INPUT CURRENT:**  
6.0 A AT 90 VAC AND 3.0A AT 240 VAC MAXIMUM

**INPUT FREQUENCY:**  
47 HZ - 63 HZ

**OUTPUT CURRENT:**  
NO MINIMUM LOAD CURRENT REQUIRED TO MAINTAIN REGULATION

**OUTPUT POWER (RATED):**  
500 WATTS MAX

**OUTPUT RIPPLE (PEAK TO PEAK):**  
LESS THAN 1% OF THE NOMINAL OUTPUT VOLTAGE

**OUTPUT REGULATION (LINE/LOAD):**  
± 2% MEASURED AT OUTPUT CONNECTOR

**LINE REGULATION:**  
± 0.5 % OUTPUT MEASURED AT OUTPUT CONNECTOR

**REMOTE SENSING (OPTION):**  
REMOTE SENSE OPTION FOR TIGHT OUTPUT REGULATION.

**TURN ON / TURN OFF OVERSHOOT:**  
4% MAX 500uS MAX RECOVERY TIME FOR 25% STEP LOAD

**TURN-ON DELAY:**  
1 SEC MAX

**HOLD-UP TIME:**  
20mS TYPICAL AT 120VAC, 70mS TYPICAL AT 230VAC

**INRUSH CURRENT:**  
40A MAXIMUM AT 120VAC AND 60A MAXIMUM AT 230VAC

**EFFICIENCY:**  
75 % TYPICAL

**POWER FACTOR:**  
0.8 TYP., CURRENT SHAPER PFC FRONT STAGE

**SWITCHING FREQUENCY:**  
200 KHZ TYPICAL

**OVER-VOLTAGE PROTECTION:**  
OUTPUT LIMITED BETWEEN 130 TO 150% OF NOMINAL LOAD, HICCUP MODE

**OVER-CURRENT / SHORT CIRCUIT:**  
HICCUP MODE WITH AUTORECOVERY ONCE FAULT HAS BEEN REMOVED

**OTHER PROTECTION:**  
DUAL FUSING, LINE AND NEUTRAL FOR MEDICAL GRADE AND LINE FUSING FOR ITE GRADE

**SAFETY APPROVALS (PENDING):**  
EN60601.1 AND UL60601.1  
CB REPORT AND CE MARK

**DIELECTRIC WITHSTAND VOLTAGE:**  
5656VDC (4000VAC) PRIMARY-SECONDARY;  
2121VDC (1500VAC) PRIMARY- GROUND

**LEAKAGE CURRENT:**  
≤ 300uA AT 240VAC

**LINE SURGE:**  
EN 61000-4-5 LEVEL 4

**EMI:**  
COMPLIES WITH EN55022, CLASS B AND FCC PART 15 CLASS B WHEN TESTED WITH A RESISTIVE LOAD, BOTH CONDUCTED AND RADIATED

**CE MARK:**  
TESTED TO COMPLY WITH EN61000-3-2 EN61000-3-3, AND EN50082-1, INCLUDING EN61000-4-2 (SYSTEM LEVEL), EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11, LEVEL 4. UNIT IS ELIGIBLE FOR CE MARK.

**MTBF:**  
100K HRS, ROOM TEMPERATURE, GROUND BENIGN

**OPERATING TEMPERATURE:**  
0° TO 40°C

**STORAGE TEMPERATURE:**  
-40°C TO 85°C

**HUMIDITY:**  
NON-CONDENSING; 5% TO 90% RH

**MODEL NUMBER CODE:**  
GT: INTERNAL CODE;  
-: MEDICAL MODEL, EN 60601.1  
(P): POWER FACTOR CORRECTION, OPTIONAL  
1653.3 TO 50048: OUTPUT POWER / OUTPUT VOLTAGE  
F: OPEN FRAME OR B: PCB MOUNTED  
-: CLASS I PROTECTIVE GROUND OR W: CLASS II, DOUBLE INSULATED

**NOTES:**

- 1) THE MEDICAL VERSION IS DESIGNED NOT TO BE USED IN SYSTEM WITH DIRECT PATIENT CONTACT APPLICATIONS.
- 2) SWITCHING FREQUENCY NOISE MEASUREMENT ARE MADE ACROSS A 20MHZ BANDWIDTH WITH 10UF TATALUM CAPACITOR AND 0.1UF CERAMIC CAPACITOR CONNECTED AT THE OUTPUT CONNECTOR.
- 3) CONDUCTED AND RADIATED EMI WHERE PERFORMED WITH RESISTIVE LOADS SET TO FULL LOAD, NOMINAL LINES.
- 4) FOR OPTIMUM RELIABILITY, NO PART OF THE HEATSINK SHOULD EXCEED 120C AND NO SEMICONDUCTOR CASE SHOULD EXCEED 130C
- 5) WHEN REMOTE SENSE IS USED, THE REMOTE SENSE WIRE SHOULD BE TWISTED AT 2 TWIST PER INCH TO AVOID OSCILLATION OF THE POWER SUPPLY.
- 6) ALL MEASUREMENTS ARE PERFORMED AT 25C ROOM AMBIENT AND ARE TYPICAL.
- 7) GLOBTEK PRODUCTS ARE NOT AUTHORIZED TO BE USED AS MISSION CRITICAL COMPONENTS IN LIFE SUPPORT HAZARDOUS ENVIRONMENT, NUCLEAR OR AIRCRAFT APPLICATION WITHOUT PRIOR WRITTEN APPROVAL FROM THE CEO OF GLOBTEK INC.
- 8) CONTENTS OF THIS DOCUMENTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

**OUTPUT VOLTAGE / CURRENT:**  
CLASS I MODELS, PROTECTIVE GROUND  
CLASS II MODELS, DOUBLE INSULATED

MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM9500-1653.3-X.X	+3.30	0 - 60.0	0 - 160
GTM9500-30005-X.X	+5.00	0 - 80.0	0 - 400
GTM9500-50006-X.X	+6.00	0 - 53.3	0 - 300
GTM9500-5007.5-X.X	+7.50	0 - 40.0	0 - 300
GTM9500-50009-X.X	+9.00	0 - 55.6	0 - 500
GTM9500-50012-X.X	+12.0	0 - 41.7	0 - 500
GTM9500-50013.5-X.X	+13.50	0 - 37.0	0 - 500
GTM95200-50013.8-X.X	+13.8.0	0 - 36.2	0 - 500

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





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**500 Watts, Universal Input, Single Output Family,  
Medical Grade Switchmodes**



FOR INDOOR USE ONLY

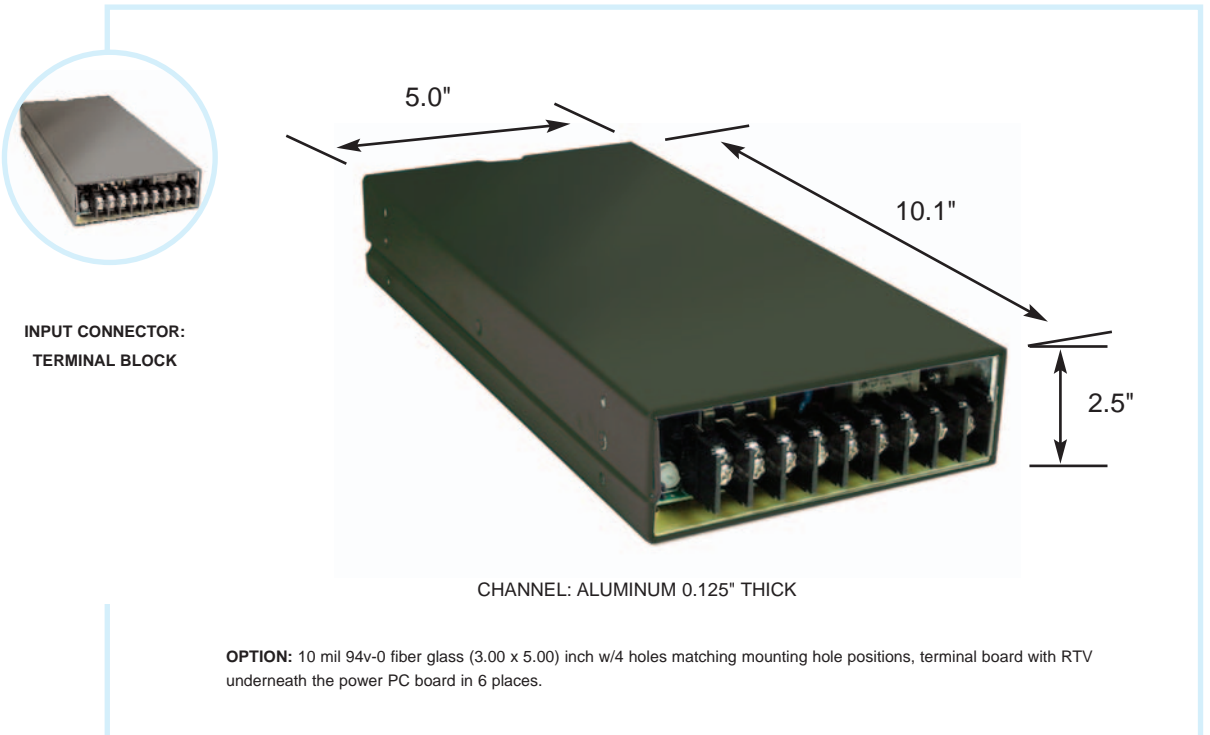


MODEL NUMBER	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (A)	RATED OUTPUT POWER (W)
GTM9500-50015-X.X	+15.0	0 - 33.3	0 - 500
GTM9500-50018-X.X	+18.0	0 - 27.8	0 - 500
GTM9500-50024-X.X	+24.0	0 - 20.8	0 - 500
GTM95200-50036-X.X	+36.0	0 - 13.8	0 - 500
GTM9500-50048-X.X	+48.0	0 - 10.4	0 - 500

**ENCLOSURE**

**CONFIGURATION:**

ENCLOSED SWITCHING POWER SUPPLY, WITH MOUNTING HOLES, POSITIONED AS SHOW BELOW.



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# Desktop & Wall Plug-In Linear Adaptors





ISO 9001:2000  
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**DC Output, Wall Plug-In and DeskTop, Class 2 Transformer**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

**GENERAL SPECIFICATIONS:**

**Input Voltage/ Frequency:** 120VAC +/-10%/60Hz for N.A.Type Models  
100VAC +/-10%/50-60Hz for Japan Models (GT-3J only)

**Output Voltage Tolerance:**  
+/-5% at full load

**Protection:**  
Primary Thermal Fuse

**Configuration:**  
Step Down Line Transformer with Rectifier- Capacitor Filter, North America Wall Plug-In or DeskTop Dual Cord In/ Out (GT-3 only)

**Operating Temperature:**  
0° to 40° C

**Humidity:**  
0%-90% R.H., non-condensing

**Storage Temperature:**  
-20° to 70° C

**Dielectric Strength:**  
1500VAC pri-sec  
1500VAC pri-ground / 500VAC sec-ground (option)

**Enclosure:**  
Black Polycarbonate, UL94V-0

**Cooling:**  
Thermal Convection, no-vents

**Cords:**  
Input (desktop for GT-3 only): 6ft, 2 or 3 conductor SPT-1  
Output: Standard 6ft, 2 conductor, 24-16 AWG. For other output cords, please refer to Output Plug/Cord Options

**Safety:**  
GT-3 Type: UL1310, C-UL22.2-223, UL E132594, CSA22.2-223  
GT-8 Type: UL60950 3rd edition, Double Insulated, CUL to CSA 22.2-950, UL E170507  
UL 697 Toy Transformer (Some Models)

**EMI:**

**FCC Class B**

**Model Selection Road Map Example:**

1. Required: Class 2 Transformer 1310 9VDC / 700mA, N.A. "2" Prong Plug, Wall Plug-In, Output Plug Center Positive 2.5mm ID Barrel.
2. Selection table presented in increasing output voltage order; page 2: locate 9V with higher incremental current: GT-341-9-1000
3. Model Selected: GT-341-9-700 w/ case Size EI-41; Please refer to Adaptors Case Style.
4. Output Plug/Cord selected "L-"; Please refer to Adaptors Plug/Cord Options

**Notes:**

- 1) For Japanese models add "J" before Unit Size Code (GT-3J only)
- 2) For unit size and output cords please refer to Adaptors Case Style and Adaptors Output Plug/Cord Options.
- \*3) Within each Model, Output Current may vary from 50mA to max load specified in 50mA increments preserving output voltage +/-5% Tolerance

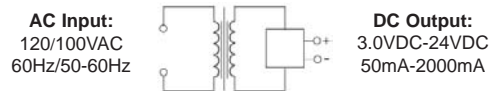
**Unit Size Codes:**

**EI 35,41,48,57,60, 66:** Transformer Core Size:

**Options:**

- 1) Primary earth ground pin and secondary/shield ground (GT-3 only)
- 2) Custom output cords, connectors and shielding 3) Other outputs or custom design per customer specifications

**Schematic Diagrams:**



** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-801540-3512	1.5	400	35 R
GT-801550-3512	1.5	500	35 R
GT-801560-3512	1.5	600	35 R
GT-801570-3512	1.5	700	35 R
GT-801580-3512	1.5	800	35 R
GT-801590-3512	1.5	900	35 R
GT-80151A-3512	1.5	1000	35 R
GT-3(J)35-3-50	3.0	50	EI-35
GT-3(J)35-3-300	3.0	300	EI-35
GT-80330-3512	3.0	300	EI-35
GT-80340-3512	3.0	400	35 R
GT-80350-3512	3.0	500	35 R
GT-80360-3512	3.0	600	35 R
GT-3(J)35-3-600	3.0	600	EI-35
GT-80370-3512	3.0	700	35 R
GT-80380-4114	3.0	800	41X14

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
RGT-3(J)35-3-800	3.0	800	EI-35
GT-80390-4114	3.0	900	41X14 R
GT-3(J)41-3-1000	3.0	1000	EI-41
GT-8031A-4114	3.0	1000	41X14 R
GT-8031A4-4818	3.0	1400	48X18 R
GT-8031A5-4818	3.0	1500	48X18 R
GT-8032A-5725	3.0	2000	57X25 R
GT-8032A05-5725	3.0	2050	57X25 R
GT-8032A10-5725	3.0	2100	57X25 R
GT-8032A15-5725	3.0	2150	57X25 R
GT-8032A20-5725	3.0	2200	57X25 R
GT-8032A25-5725	3.0	2250	57X25 R
GT-8032A30-5725	3.0	2300	57X25 R
GT-8032A35-5725	3.0	2350	57X25 R
GT-8032A40-5725	3.0	2400	57X25 R
GT-3(J)35-3.6-50	3.6	50	EI-35

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**DC Output, Wall Plug-In and DeskTop, Class 2 Transformer**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)35-3.6-250	3.6	250	EI-35
GT-3(J)35-3.6-500	3.6	500	EI-35
GT-3(J)35-3.6-700	3.6	700	EI-35
GT-3(J)41-4-1000	4.0	1000	EI-41
GT-3(J)48-4-1000	4.0	1000	EI-48
GT-3(J)48-4-1500	4.0	1500	EI-48
GT-3(J)35-4.5-50	4.5	50	EI-35
GT-3(J)35-4.5-250	4.5	250	EI-35
GT-804525-3512	4.5	250	35 R
GT-804530-3512	4.5	300	35 R
GT-804535-3512	4.5	350	35 R
GT-804540-3512	4.5	400	35 R
GT-804545-3512	4.5	450	35 R
GT-804550-3512	4.5	500	35 R
GT-3(J)35-4.5-500	4.5	500	EI-35
GT-804555-3512	4.5	550	35 R
GT-804560-4114	4.5	600	41X14 R
GT-3(J)35-4.5-600	4.5	600	EI-35
GT-3(J)41-4.5-600	4.5	600	EI-41
GT-804570-4114	4.5	700	41X14 R
GT-3(J)41-4.5-800	4.5	800	EI-41
GT-804580-4114	4.5	800	41X14 R
GT-804585-4114	4.5	850	41X14 R
GT-3(J)41-4.5-900	4.5	900	EI-41
GT-3(J)41-4.5-1000	4.5	1000	EI-41
GT-80451A2-4818	4.5	1200	48X18 R
GT-80451A3-4818	4.5	1300	48X18 R
GT-3(J)41-4.5-1300	4.5	1300	EI-41
GT-80451A4-4818	4.5	1400	48X18 R
GT-80451A5-4818	4.5	1500	48X18 R
GT-80452A-5725	4.5	2000	57X25 R
GT-80452A05-5725	4.5	2050	57X25 R
GT-80452A10-5725	4.5	2100	57X25 R
GT-80452A15-5725	4.5	2150	57X25 R
GT-80452A20-5725	4.5	2200	57X25 R
GT-80452A25-5725	4.5	2250	57X25 R
GT-80452A30-5725	4.5	2300	57X25 R
GT-80452A35-5725	4.5	2350	57X25 R
GT-80452A40-5725	4.5	2400	57X25 R
GT-3(J)35-5-50	5.0	50	EI-35
GT-3(J)35-5-200	5.0	200	EI-35
GT-80520-3512	5.0	200	35 R

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-80525-3512	5.0	250	35 R
GT-8530-3512	5.0	300	35 R
GT-80540-3512	5.0	400	35 R
GT-3(J)35-5-400	5.0	400	EI-35
GT-3(J)35-5-500	5.0	500	EI-35
GT-3(J)41-5-500	5.0	500	EI-41
GT-80550-3512	5.0	500	35 R
GT-80555-4114	5.0	550	41X14 R
GT-80560-4114	5.0	600	41X14 R
GT-3(J)41-5-700	5.0	700	EI-41
GT-80570-4114	5.0	700	41X14 R
GT-3(J)41-5-800	5.0	800	EI-41
GT-80580-4114	5.0	800	41X14 R
GT-80585-4114	5.0	850	41X14 R
GT-3(J)41-5-900	5.0	900	EI-41
GT-8051A-4818	5.0	1000	48X18 R
GT-8051A1-4818	5.0	1100	48X18 R
GT-8051A2-4818	5.0	1200	48X18 R
GT-3(J)41-5-1200	5.0	1200	EI-41
GT-8031A3-4818	5.0	1300	48X18 R
GT-3(J)48-5-1400	5.0	1400	EI-48
GT-8051A50-5716	5.0	1500	57X16 R
GT-8051A60-5716	5.0	1600	57X16 R
GT-8051A70-5716	5.0	1700	57X16 R
GT8051A80-5720	5.0	1800	57X20 R
GT-8051A90-5720	5.0	1900	57X20 R
GT-8052A-5725	5.0	2000	57X25 R
GT-8052A10-5725	5.0	2100	57X25 R
GT-8052A20-5725	5.0	2200	57X25 R
GT-8052A30-5725	5.0	2300	57X25 R
GT-8052A40-5725	5.0	2400	57X25 R
GT-3(J)35-5.2-200	5.0	200	EI-35
GT-3(J)35-5.2-400	5.2	400	EI-35
GT-3(J)35-6-50	6.0	50	EI-35
GT-3(J)35-6-200	6.0	200	35 R
GT-80620-3512	6.0	200	35 R
GT-80625-3512	6.0	250	35 R
GT-80630-3512	6.0	300	35 R
GT-80635-3512	6.0	350	35 R
GT-80640-3512	6.0	400	35 R
GT-3(J)35-6-400	6.0	400	EI-35
GT-80645-3512	6.0	450	35 R



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
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## AC/DC LINEAR ADAPTORS FOR NORTH AMERICA AND JAPAN

### DC Output, Wall Plug-In and DeskTop, Class 2 Transformer

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)35-6-500	6.0	500	EI-35
GT-3(J)41-6-500	6.0	500	EI-41
GT-80650-3512	6.0	500	35 R
GT-80660-4114	6.0	600	41X14 R
GT-80670-4114	6.0	700	41X14 R
GT-3(J)41-6-700	6.0	700	EI-41
GT-3(J)41-6-800	6.0	800	EI-41
GT-3(J)41-6-900	6.0	900	EI-41
GT-8061A-4818	6.0	1000	48X18 R
GT-8061A1-4818	6.0	1100	48X18 R
GT-8061A2-4818	6.0	1200	48X18 R
GT-3(J)41-6-1200	6.0	1200	EI-41
GT-3(J)48-6-1200	6.0	1200	EI-48
GT-3(J)48-6-1400	6.0	1400	EI-48
GT-8061A40-5716	6.0	1400	57X16 R
GT-8061A50-5716	6.0	1500	57X16 R
GT-8061A60-5716	6.0	1600	57X16 R
GT-8061A70-5720	6.0	1700	57X20 R
GT-8061A80-5720	6.0	1800	57X20 R
GT-8061A90-5725	6.0	1900	57X25 R
GT-8062A-5725	6.0	2000	57X25 R
GT-8062A10-5725	6.0	2100	57X25 R
GT-8062A20-5725	6.0	2200	57X25 R
GT-8062A30-5725	6.3	2300	57X25 R
GT-3(J)41-6.3-100	6.3	100	EI-41
GT-3(J)41-6.3-500	6.8	500	EI-41
GT-3(J)41-6.8-400	7.0	400	EI-41
GT-3(J)35-7-50	7.0	50	EI-35
GT-3(J)35-7-150	7.0	150	EI-35
GT-3(J)35-7-300	7.0	300	EI-35
GT-3(J)35-7-400	7.0	400	EI-35
GT-3(J)41-7-450	7.0	450	EI-41
GT-3(J)41-7-600	7.0	600	EI-41
GT-3(J)41-7-700	7.0	700	EI-41
GT-3(J)41-7-800	7.0	800	EI-41
GT-3(J)48-7-1100	7.0	1100	EI-48
GT-3(J)48-7-1300	7.0	1300	EI-48
GT-3(J)35-7.2-75	7.2	75	EI-35
GT-3(J)41-7.2-300	7.2	300	EI-41
GT-3(J)35-7.5-50	7.5	50	EI-35
GT-807520-3512	7.5	200	35 R
GT-807525-3512	7.5	250	35 R

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)35-7.5-250	7.5	250	EI-35
GT-3(J)35-7.5-300	7.5	300	EI-35
GT-807530-3512	7.5	300	35 R
GT-807535-3512	7.5	350	35 R
GT-807540-3512	7.5	400	35 R
GT-3(J)35-7.5-400	7.5	400	EI-35
GT-3(J)41-7.5-450	7.5	450	EI-41
GT-807545-4114	7.5	450	41X14 R
GT-807550-4114	7.5	500	41X14 R
GT-807555-4114	7.5	550	41X14 R
GT-807560-4114	7.5	600	41X14 R
GT-3(J)41-7.5-600	7.5	600	EI-41
GT-807565-4114	7.5	650	41X14 R
GT-3(J)41-7.5-700	7.5	700	EI-41
GT-3(J)41-7.5-800	7.5	800	EI-48
GT-3(J)48-7.5-900	7.5	900	48X18 R
GT-807590-4818	7.5	900	48X18 R
GT-80751A-4818	7.5	1000	48X18 R
GT-3(J)48-7.5-1100	7.5	1100	EI-48
GT-80751A10-5716	7.5	1100	57X16 R
GT-80751A20-5716	7.5	1200	57X16 R
GT-3(J)48-7.5-1300	7.5	1300	EI-48
GT-80751A30-5716	7.5	1300	57X16 R
GT-80751A40-5716	7.5	1400	57X16 R
GT-80751A50-5716	7.5	1500	57X16 R
GT-80751A60-5720	7.5	1600	57X20 R
GT-80751A70-5720	7.5	1700	57X20 R
GT-80751A80-5725	7.5	1800	57X25 R
GT-80751A90-5725	7.5	1900	57X25 R
GT-80752A-5725	7.5	2000	57X25 R
GT-80752A10-5725	7.0	2100	57X25 R
GT-80752A20-5725	7.5	2200	57X25 R
GT-80752A30-5725	7.5	2300	57X25 R
GT-3(J)35-8-50	8.0	50	EI-35
GT-80815-3512	8.0	150	35 R
GT-80820-3512	8.0	200	35 R
GT-3(J)35-8-250	8.0	250	EI-35
GT-80825-3512	8.0	250	35 R
GT-80830-3512	8.0	300	35 R
GT-3(J)35-8-300	8.0	300	EI-35
GT-3(J)35-8-350	8.0	350	EI-35
GT-80835-3512	8.0	350	35 R

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**DC Output, Wall Plug-In and DeskTop, Class 2 Transformer**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-80840-4114	8.0	400	41X14 R
GT-80845-4114	8.0	450	41X14 R
GT-80850-4114	8.0	500	41X14 R
GT-80855-4114	8.0	550	41X14 R
GT-80860-4114	8.0	600	41X14 R
GT-80880-4818	8.0	800	48X18 R
GT-80890-4818	8.0	900	48X18 R
GT-8081A-4818	8.0	1000	48X18 R
GT-8081A1-4818	8.0	1100	48X18 R
GT-8081A20-5716	8.0	1200	57X16 R
GT-8081A30-5716	8.0	1300	57X16 R
GT-8081A40-5716	8.0	1400	57X16 R
GT-8081A50-5720	8.0	1500	57X20 R
GT-8081A60-5720	8.0	1600	57X20 R
GT-8081A70-5720	8.0	1700	57X20 R
GT-8081A80-5725	8.0	1800	57X25 R
GT-8081A90-5725	8.0	1900	57X25 R
GT-8082A-5725	8.0	2000	57X25 R
GT-8082A10-5725	8.0	2100	57X25 R
GT-8082A20-5725	8.0	2200	57X25 R
GT-3(J)35-8.7-200	8.7	200	EI-35
GT-3(J)35-9-50	9.0	50	EI-35
GT-3(J)35-9-150	9.0	150	35 R
GT-80915-3512	9.0	150	35 R
GT-80920-3512	9.0	200	35 R
GT-80925-3512	9.0	250	35 R
GT-80930-3512	9.0	300	EI-35
GT-3(J)35-9-300	9.0	300	EI-35
GT-3(J)35-9-350	9.0	350	EI-35
GT-80935-3512	9.0	350	35 R
GT-80940-3512	9.0	400	35 R
GT-3(J)41-9-400	9.0	400	EI-41
GT-80945-4114	9.0	450	41X14 R
GT-80950-4114	9.0	500	41X14 R
GT-3(J)41-9-500	9.0	500	EI-41
GT-3(J)41-9-550	9.0	550	EI-41
GT-3(J)41-9-650	9.0	650	EI-41
GT-80980-4818	9.0	800	48X18 R
GT-80985-4818	9.0	850	48X18 R
GT-80990-4818	9.0	900	48X18 R
GT-80995-4818	9.0	950	48X18 R
GT-8091A-4818	9.0	1000	48X18 R

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)41-9-1000	9.0	1000	EI-41
GT-3(J)48-9-1000	9.0	1000	EI-48
GT-3(J)48-9-1200	9.0	1200	EI-48
GT-8091A20-5716	9.0	1200	57X16 R
GT-8091A30-5716	9.0	1300	57X16 R
GT-8091A40-5720	9.0	1400	57X20R
GT-8091A50-5720	9.0	1500	57X20R
GT-8091A60-5725	9.0	1600	57X25 R
GT-8091A70-5725	9.0	1700	57X25 R
GT-8091A80-5725	9.0	1800	57X25 R
GT-81015-3512	10.0	150	35 R
GT-81020-3512	10.0	200	35 R
GT-81025-3512	10.0	250	35 R
GT-3(J)41-10-25	10.0	250	EI-41
GT-81030-3512	10.0	300	35 R
GT-81035-4114	10.0	350	41X14 R
GT-3(J)41-10-350	10.0	350	EI-41
GT-81040-4114	10.0	400	41X14 R
GT-81045-4114	10.0	450	41X14 R
GT-3(J)41-10-450	10.0	450	EI-41
GT-3(J)41-10-500	10.0	500	EI-41
GT-81050-4114	10.0	500	41X14 R
GT-3(J)41-10-650	10.0	650	EI-41
GT-3(J)48-10-700	10.0	700	EI-48
GT-81070-4818	10.0	700	48X18 R
GT-81075-4818	10.0	750	48X18 R
GT-81080-4818	10.0	800	48X18 R
GT-81085-4818	10.0	850	48X18 R
GT-81090-4818	10.0	900	48X18 R
GT-3(J)48-10-900	10.0	900	EI-48
GT-8101A-5716	10.0	1000	57X16 R
GT-3(J)48-10-1100	10.0	1100	EI-48
GT-8101A10-5716	10.0	1100	57X16 R
GT-8101A20-5716	10.0	1200	57X16 R
GT-8101A30-5720	10.0	1300	57X20 R
GT-8101A40-5725	10.0	1400	57X25 R
GT-8101A50-5725	10.0	1500	57X25 R
GT-3(J)57-10-1500	10.0	1500	EI-57
GT-8101A60-5725	10.0	1600	57X25 R
GT-8101A70-5725	10.0	1700	57X25 R
GT-8101A80-5725	10.0	1800	57X25 R
GT-3(J)35-11-50	11.0	50	EI-35



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## AC/DC LINEAR ADAPTORS FOR NORTH AMERICA AND JAPAN

### DC Output, Wall Plug-In and DeskTop, Class 2 Transformer

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)35-11-100	11.0	100	EI-35
GT-3(J)35-11-200	11.0	200	EI-35
GT-3(J)35-11-250	11.0	250	EI-35
GT-3(J)41-11-350	11.0	350	EI-41
GT-3(J)41-11-450	11.0	450	EI-41
GT-3(J)41-11-500	11.0	500	EI-41
GT-3(J)41-11-550	11.0	550	EI-41
GT-3(J)41-11-600	11.0	600	EI-41
GT-3(J)35-11.6-180	11.0	180	EI-35
GT-3(J)35-12-50	12.0	50	EI-35
GT-3(J)35-12-100	12.0	100	EI-35
GT-81215-3512	12.0	150	35 R
GT-81220-3512	12.0	200	35 R
GT-3(J)35-12-200	12.0	200	EI-35
GT-3(J)35-12-250	12.0	250	EI-35
GT-81225-3512	12.0	250	35 R
GT-81230-3512	12.0	300	35 R
GT-3(J)41-12-300	12.0	300	EI-41
GT-81235-4114	12.0	350	41X14 R
GT-81240-4114	12.0	400	41X14 R
GT-3(J)41-12-400	12.0	400	EI-41
GT-3(J)41-12-450	12.0	450	EI-41
GT-3(J)41-12-600	12.0	600	EI-41
GT-81260-4818	12.0	600	48X18 R
GT-81265-4818	12.0	650	48X18 R
GT-81270-4818	12.0	700	48X18 R
GT-81275-4818	12.0	750	48X18 R
GT-81280-4818	12.0	800	48X18 R
GT-3(J)41-12-800	12.0	800	EI-41
GT-3(J)48-12-800	12.0	800	EI-48
GT-81290-5716	12.0	900	57X16 R
GT-8121A-5716	12.0	1000	57X16 R
GT-3(J)48-12-1000	12.0	1000	EI-48
GT-8121A10-5720	12.0	1100	57X20 R
GT-8121A20-5720	12.0	1200	57X20 R
GT-8121A30-5725	12.0	1300	57X25 R
GT-8121A40-5725	12.0	1400	57X25 R
GT-3(J)57-12-1400	12.0	1400	EI-57
GT-8121A50-5725	12.0	1500	57X25 R
GT-3(J)57-12-1500	12.0	1500	EI-57
GT-3(J)57-12-2000	12.0	2000	EI-57
GT-3(J)41-13-250	13.0	250	EI-41

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)41-13-500	13.0	500	EI-41
GT-8131A-5720	13.0	1000	57X20 R
GT-81360-5716	13.0	600	57X16 R
GT-81370-5716	13.0	700	57X16 R
GT-81380-5716	13.0	800	57X16 R
GT-81390-5716	13.0	900	57X16 R
GT-8131A10-5720	13.0	1100	57X20 R
GT-8131A20-5720	13.0	1200	57X20 R
GT-8131A30-5725	13.0	1300	57X25 R
GT-8131A40-5725	13.0	1400	57X25 R
GT-8131A50-5725	13.0	1500	57X25 R
GT-3(J)41-13.2-100	13.2	100	EI-41
GT-3(J)48-13.5-650	13.5	650	EI-48
GT-3(J)48-13.5-850	13.8	850	EI-48
GT-860-14-1700	14.0	1700	EI-60 TT
GT-81410-3512	14.0	100	35 R
GT-3(J)41-14-150	14.0	150	EI-41
GT-81415-3512	14.0	150	35 R
GT-81420-3512	14.0	200	35 R
GT-3(J)41-14-200	14.0	200	EI-41
GT-81425-4114	14.0	250	41X14 R
GT-81430-4114	14.0	300	41X14 R
GT-81435-4114	14.0	350	41X14 R
GT-3(J)41-14-360	14.0	360	EI-41
GT-3(J)41-14-400	14.0	400	EI-41
GT-3(J)41-14-450	14.0	450	EI-41
GT-3(J)48-14-500	14.0	500	EI-48
GT-81455-4818	14.0	550	48X18 R
GT-81460-4818	14.0	600	48X18 R
GT-3(J)48-14-600	14.0	600	EI-48
GT-81465-4818	14.0	650	48X18 R
GT-3(J)48-14-800	14.0	800	EI-48
GT-81490-5716	14.0	900	57X16 R
GT-8141A-5720	14.0	1000	57X20 R
GT-8141A10-5720	14.0	1100	57X20 R
GT-8141A20-5725	14.0	1200	57X25 R
GT-3(J)57-14-1200	14.0	1200	EI-57
GT-8141A25-5725	14.0	1250	57X25 R
GT-8141A30-5725	14.0	1300	57X25 R
GT-8141A35-5725	14.0	1350	57X25 R
GT-8141A40-5725	14.0	1400	57X25 R
GT-3(J)35-15-50	15.0	50	EI-35

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**DC Output, Wall Plug-In and DeskTop, Class 2 Transformer**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)35-15-100	15.0	100	EI-35
GT-81510-3512	15.0	100	35 R
GT-81515-3512	15.0	150	35 R
GT-3(J)35-15-150	15.0	150	EI-35
GT-3(J)35-15-200	15.0	200	EI-35
GT-81520-3512	15.0	200	35 R
GT-3(J)41-15-200	15.0	200	EI-41
GT-81525-4114	15.0	250	41X14 R
GT-81530-4114	15.0	300	41X14 R
GT-3(J)41-15-300	15.0	300	EI-41
GT-3(J)41-15-350	15.0	350	EI-41
GT-3(J)41-15-400	15.0	400	EI-41
GT-3(J)41-15-450	15.0	450	EI-41
GT-81550-4818	15.0	500	48X18 R
GT-81560-4818	15.0	600	48X18 R
GT-81570-5716	15.0	700	57X16 R
GT-848-15-1000	15.0	800	EI-48
GT-3(J)48-15-900	15.0	900	EI-48
GT-81590-5716	15.0	900	57X16 R
GT-848-15-1000	15.0	1000	EI-48
GT-8151A-5720	15.0	1000	57X20 R
GT-8151A10-5720	15.0	1100	57X20 R
GT-8151A20-5725	15.0	1200	57X25 R
GT-8151A30-5725	15.0	1300	57X25 R
GT-3(J)35-16-50	16.0	50	EI-35
GT-3(J)35-16-100	16.0	100	EI-35
GT-81610-3512	16.0	100	35 R
GT-81615-3512	16.0	150	35 R
GT-3(J)35-16-150	16.0	150	EI-35
GT-81620-4114	16.0	200	41X14 R
GT-81625-4114	16.0	250	41X14 R
GT-81625-4114	16.0	300	41X14 R
GT-81645-4818	16.0	450	48X18 R
GT-81650-4818	16.0	500	48X18 R
GT-81655-4818	16.0	550	48X18 R
GT-81660-4818	16.0	600	48X18 R
GT-81670-5716	16.0	700	57X16 R
GT-81680-5716	16.0	800	57X16 R
GT-81685-5716	16.0	850	57X16 R
GT-81690-5720	16.0	900	57X20 R
GT-81695-5720	16.0	950	57X20 R
GT-8161A-5720	16.0	1000	57X20 R

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)48-16-1000	16.0	1000	EI-48
GT-8161A10-5725	16.0	1100	57X25 R
GT-8161A15-5725	16.0	1150	57X25 R
GT-8161A20-5725	16.0	1200	57X25 R
GT-8161A25-5725	16.0	1250	57X25 R
GT-8161A30-5725	16.0	1300	57X25 R
GT-3(J)41-16.5-300	16.5	300	EI-41
GT-3(J)41-16.5-350	16.5	350	EI-41
GT-3(J)57-16.5-1500	16.5	1500	EI-57
GT-3(J)35-18-50	18.0	50	EI-35
GT-81805-3512	18.0	50	35 R
GT-81810-3512	18.0	100	35 R
GT-3(J)35-18-100	18.0	100	EI-35
GT-3(J)35-18-150	18.0	150	EI-35
GT-81815-3512	18.0	150	35 R
GT-81820-4114	18.0	200	41X14 R
GT-3(J)41-18-200	18.0	200	EI-41
GT-3(J)18-250	18.0	250	EI-41
GT-81825-4114	18.0	250	41X14 R
GT-81830-4114	18.0	300	41X14 R
GT-3(J)41-18-300	18.0	300	EI-41
GT-3(J)41-18-350	18.0	350	EI-41
GT-3(J)48-18-350	18.0	350	EI-48
GT-3(J)48-18-450	18.0	450	EI-48
GT-81845-4818	18.0	450	48X18 R
GT-81850-4818	18.0	500	48X18 R
GT-3(J)48-18-500	18.0	500	EI-48
GT-3(J)48-18-550	18.0	550	EI-48
GT-3(J)48-18-700	18.0	700	EI-48
GT-81880-5716	18.0	800	57X16 R
GT-81885-5720	18.0	850	57X20 R
GT-81890-5720	18.0	900	57X20 R
GT-81895-5725	18.0	950	57X25 R
GT-8181A-5725	18.0	1000	57X25 R
GT-8181A05-5725	18.0	1050	57X25 R
GT-8181A10-5725	18.0	1100	57X25 R
GT-866-18.5-2000	18.5	2000	EI-66 TT
GT-82005-3512	20.0	50	35 R
GT-3(J)35-20-50	20.0	50	EI-35
GT-3(J)35-20-100	20.0	100	EI-35
GT-82010-3512	20.0	100	35 R
GT-82015-3512	20.0	150	35 R



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## AC/DC LINEAR ADAPTORS FOR NORTH AMERICA AND JAPAN

### DC Output, Wall Plug-In and DeskTop, Class 2 Transformer

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



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** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)35-20-150	20.0	150	EI-35
GT-82020-4114	20.0	200	41X14 R
GT-82025-4114	20.0	250	41X14 R
GT-82050-4818	20.0	500	48X18 R
GT-82060-5716	20.0	600	57X16 R
GT-82065-5716	20.0	650	57X16 R
GT-82070-5716	20.0	700	57X16 R
GT-82075-5720	20.0	750	57X20 R
GT-82080-5720	20.0	800	57X20 R
GT-82085-5725	20.0	850	57X25 R
GT-82090-5725	20.0	900	57X25 R
GT-3(J)57-20-900	20.0	900	EI-57
GT-82095-5725	20.0	950	57X25 R
GT-8201A-5725	20.0	1000	57X25 R
GT-3(J)35-21-50	21.0	50	EI-35
GT-3(J)35-21-100	21.0	100	EI-35
GT-3(J)35-21-150	21.0	150	EI-35
GT-3(J)41-21-150	21.0	150	EI-41
GT-3(J)41-21-200	21.0	200	EI-41
GT-3(J)41-21-250	21.0	250	EI-41
GT-3(J)41-21-300	21.0	300	EI-41
GT-3(J)48-21-300	21.0	300	EI-48
GT-3(J)48-21-400	21.0	400	EI-48
GT-3(J)48-21-500	21.0	500	EI-48
GT-3(J)48-21-600	21.0	600	EI-48
GT-82205-3512	22.0	50	35 R
GT-3(J)35-22-100	22.0	100	EI-35
GT-82210-3512	22.0	100	35 R
GT-82215-4114	22.0	150	41X14 R
GT-82220-4114	22.0	200	41X14 R
GT-82245-4818	22.0	450	57X18 R
GT-82250-5716	22.0	500	57X16 R
GT-82270-5720	22.0	700	57X20 R
GT-82275-5725	22.0	750	57X25 R
GT-82280-5725	22.0	800	57X25 R
GT-82285-5725	22.0	850	57X25 R
GT-82290-5725	22.0	900	57X25 R
GT-82405-3512	24.0	50	35 R
GT-3(J)35-24-50	24.0	50	EI-35
GT-3(J)35-24-100	24.0	100	EI-35
GT-82410-3512	24.0	100	35 R
GT-82415-4114	24.0	150	41X14 R

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)35-24-150	24.0	150	EI-35
GT-3(J)41-24-150	24.0	150	EI-41
GT-82418-4114	24.0	180	41X14 R
GT-3(J)41-24-200	24.0	200	EI-41
GT-3(J)41-24-250	24.0	250	EI-41
GT-3(J)41-24-300	24.0	300	EI-41
GT-3(J)48-24-350	24.0	350	EI-48
GT-82435-4818	24.0	350	48X18 R
GT-82440-4818	24.0	400	48X18 R
GT-3(J)48-24-450	24.0	450	EI-48
GT-82450-5716	24.0	500	57X16 R
GT-3(J)48-24-550	24.0	550	EI-48
GT-82460-5720	24.0	600	57X20 R
GT-82465-5720	24.0	650	57X20 R
GT-82470-5725	24.0	700	57X25 R
GT-82475-5725	24.0	750	57X25 R
GT-82480-5725	24.0	800	57X25 R
GT-82485-5725	24.0	850	57X25 R
GT-82490-5725	24.0	900	57X25 R
GT-3(J)57-24-1000	24.0	1000	EI-57
GT-82630-4818	26.0	300	48X18 R
GT-82635-4818	26.0	350	48X18 R
GT-82640-4818	26.0	400	48X18 R
GT-82660-5725	26.0	600	57X25 R
GT-82665-5725	26.0	650	57X25 R
GT-82670-5725	26.0	700	57X25 R
GT-82675-5725	26.0	750	57X25 R
GT-82680-5725	26.0	800	57X25 R
GT-82860-5725	28.0	600	57X25 R
GT-82865-5725	28.0	650	57X25 R
GT-82870-5725	28.0	700	57X25 R
GT-83050-5725	30.0	500	57X25 R
GT-83055-5725	30.0	550	57X25 R
GT-83060-5725	30.0	600	57X25 R
GT-83065-5725	30.0	650	57X25 R

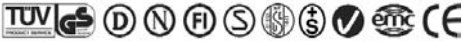
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DC Output, Wall Plug-In and DeskTop

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**General Specifications: Input Voltage/ Frequency:**

230VAC+/-10%/50Hz for Euro.Type Models  
240VAC+/-10%/50Hz for Australia, UK Type Models

**Output VoltageTolerance:**

+/-5% at full load

**Protection:**

Primary Thermal Fuse

**Configuration:**

Step Down Line Transformer with Rectifier-Capacitor  
Filter, Euro./U.K./Australia (SAA) Type Wall Plug-in  
or DeskTop Dual Cord In/ Out

**Operating Temperature:**

0° to 40° C

**Humidity:**

0% to 90% R.H., non-condensing

**Storage Temperature:**

-20° to 70° C

**Dielectric Strength:**

2500VAC pri-sec  
2500VAC pri-ground / 500VAC sec-ground (option)

**Enclosure:**

Black Polycarbonate, UL94V-0

**Cooling:**

Thermal Convection, no-vents

**Cords:**

Output: Standard, 6ft. 2 conductor, 24-18AWG;  
Input: 2 or 3 conductor, (DeskTop)  
For other output cords, please refer to Output  
Plug/Cord Options

**Safety:**

All Models are TUV/GS approved to EN60950;  
TUV Subscriber #41405  
Australian Models comply with AS/NZS 3108

**EMI:**

CE Compliant

**Model Selection Road Map Example:**

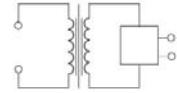
1. Required: ITE EN60950 9VDC / 700mA, EURO. "2" Prong Plug, Wall Plug-In, Output Plug Center Positive 2.5mm ID Barrel.
2. Selection table presented in increasing output voltage order; page 3: locate 9VDC/700mA: GT-3T-4B-9-700D
3. Model Selected: GT-3T-4B-9-700D w/ case Size EI-48; Please refer to Adaptors Case Style.
4. Output Plug/Cord selected "L-"; Please refer to Adaptors Plug/Cord Options

**Notes:**

- 1) For unit size and output cords please refer to Adaptors Case Style and Adaptors Output Plug/Cord Options.
  - 2) For Input Blade Options please refer to International Adaptor for Input Blade Options
  - \*3) Within each Model, Output Current may vary from 50mA to max load specified in 50mA increments pre serving output voltage +/-5% Tolerance
  - \*\*4) Optional for specifying Output Voltage Deviation from Standard Model add Suffix -x.x to Model No.
- Unit Size Codes:**  
GT-3 Models EI 35,41,48,57,60,66: Transformer Core Size:  
**Options:**
- 1) Primary earth ground pin and secondary/shield ground
  - 2) Custom output cords, connectors and shielding attachments
  - 3) Other outputs or custom design per customer specifications

**Schematic Diagram:**

**AC Input:**  
220/230/240VAC  
50Hz



**DC Output:**  
3.0VDC-30VDC  
50mA-2000mA



** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE	EURO. WALL PLUG (E)	U.K. WALL PLUG (B)	SAA WALL PLUG (S)	EURO DESKTOP	U.K. DESKTOP	SAA DESKTOP
GT-3T35-3-200C	3.0	200	EI-35	■	■				
GT-3T35-3-300C	3.0	300	EI-35	■	■				
GT-3T35-3-400C	3.0	400	EI-35	■	■				
GT-3T41-3-1000D	3.0	1000	EI-41	■	■		■	■	
GT-3T41-4-1000D	4.0	1000	EI-41	■	■		■	■	
GT-3T41-4-1300D	4.0	1300	EI-41	■	■		■	■	
GT-3T48-4-1500D	4.0	1500	EI-48	■	■		■	■	
GT-3T35-4.5-500C	4.5	500	EI-35	■	■				
GT-3T41-4.5-600C	4.5	600	EI-41	■	■		■	■	
GT-3T41-4.5-800C	4.5	800	EI-41	■	■		■	■	
GT-3T35-5.8-180B	6.0	180	EI-35	■	■				
GT-3T35-6-50C	6.0	50	EI-35	■	■				

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

AC/DC LINEAR ADAPTORS FOR EUROPE, U.K., AUSTRALIA

DC Output, Wall Plug-In and DeskTop

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY



** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE	EURO. WALL PLUG (E)	U.K. WALL PLUG (B)	SAA WALL PLUG (S)	EURO DESKTOP	U.K. DESKTOP	SAA DESKTOP
GT-3T35-6-100C	6.0	100	EI-35	■	■				
GT-3T35-6-150C	6.0	150	EI-35	■	■				
GT-3T35-6-200C	6.0	200	EI-35	■	■				
GT-3T35-6-250C	6.0	250	EI-35	■	■				
GT-3T35-6-300C	6.0	300	EI-35	■	■				
GT-3T35-6-350C	6.0	350	EI-35	■	■				
GT-3T41-6-400C	6.0	400	EI-41	■	■		■	■	
GT-3T41-6-500C	6.0	500	EI-41	■	■		■	■	
GT-3T41-6-600D	6.0	600	EI-41	■	■		■	■	
GT-3T41-6-800D	6.0	800	EI-41	■	■		■	■	
GT-3T48-6-1000D	6.0	1000	EI-48	■	■		■	■	
GT-3T48-6-1200D	6.0	1200	EI-48	■	■		■	■	
GT-3T57-6-1200D	6.0	1200	EI-57	■	■		■	■	
GT-3T57-6-1500D	6.0	1500	EI-57	■	■		■	■	
GT-3T35-7.2-200B	7.2	200	EI-35	■	■		■	■	
GT-3T48-7.2-850B	7.2	850	EI-48	■	■		■	■	
GT-3T35-7.5-200C	7.5	200	EI-35	■	■	■			
GT-3T35-7.5-250C	7.5	250	EI-35	■	■				
GT-3T35-7.5-300C	7.5	300	EI-35	■	■				
GT-3T41-7.5-400C	7.5	400	EI-41	■	■		■	■	
GT-3T41-7.5-500D	7.5	500	EI-41	■	■		■	■	
GT-3T41-7.5-700D	7.5	700	EI-41	■	■		■	■	
GT-3T48-7.5-900D	7.5	900	EI-48	■	■		■	■	
GT-3T48-7.5-1000D	7.5	1000	EI-48	■	■		■	■	
GT-3T48-7.5-1200D	7.5	1200	EI-48	■	■		■	■	
GT-3T57-7.5-1200D	7.5	1200	EI-57	■	■		■	■	
GT-3T57-7.5-1500D	7.5	1500	EI-57	■	■		■	■	
GT-3T60-7.5-2900D	7.5	2900	EI-60				■	■	
GT-3T35-8-200B	8.0	200	EI-35	■	■				
GT-3T41-8-350C	8.0	350	EI-41	■	■		■	■	
GT-3T48-8-7850B	8.7	850	EI-48	■	■		■	■	
GT-3T35-9-50C	9.0	50	EI-35	■	■				
GT-3T35-9-100C	9.0	100	EI-35	■	■				
GT-3T35-9-150C	9.0	150	EI-35	■	■				
GT-3T35-9-200C	9.0	200	EI-35	■	■				
GT-3T41-9-250C	9.0	250	EI-41			■	■	■	■
GT-3T35-9-300C	9.0	300	EI-35	■	■				
GT-3T41-9-300C	9.0	300	EI-41	■	■		■	■	
GT-3T41-9-300D	9.0	300	EI-41			■	■	■	■
GT-3T41-9-350D	9.0	350	EI-41	■	■		■	■	
GT-3T41-9-400D	9.0	400	EI-41	■	■		■	■	
GT-3T41-9-450D	9.0	450	EI-41	■	■		■	■	

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.







ISO 9001:2000  
REGISTERED

**DC Output, Wall Plug-In and DeskTop**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

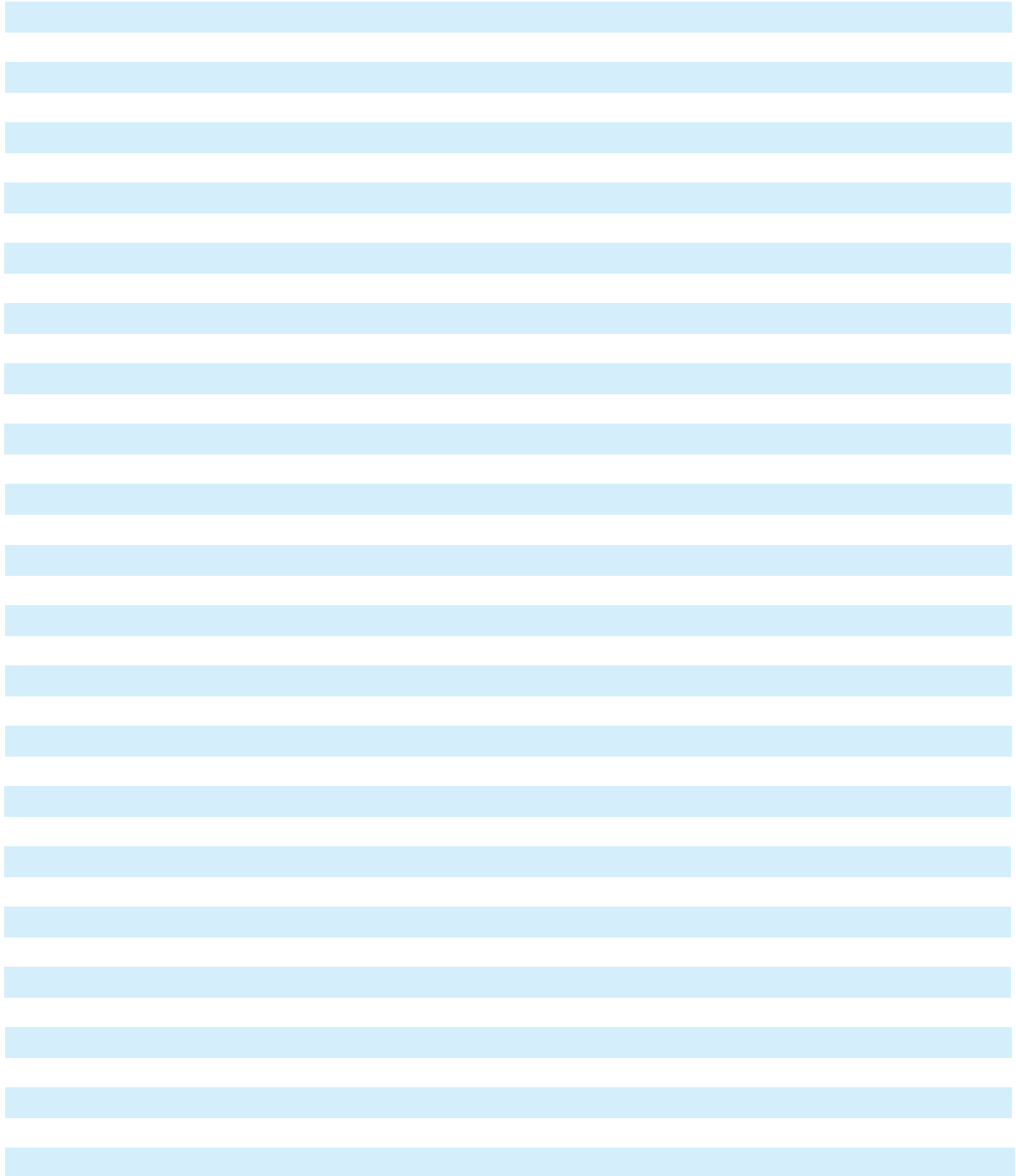


  INDOOR USE ONLY



** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE	EURO. WALL PLUG (E)	U.K. WALL PLUG (B)	SAA WALL PLUG (S)	EURO DESKTOP	U.K. DESKTOP	SAA DESKTOP
GT-3T57-30-500D	30.0	500	EI-57			■		■	
GT-3T57-30-500D	30.0	550	EI-57	■			■		

\* APPROVED FOR OUTDOOR USE





**AC Output, Wall Plug-in and DeskTop, Class 2 Transformers & ITE Transformers**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY  
FOR OUTDOOR TYPES SEE  
AC/AC WEATHERPROOF ADAPTORS

**General Specifications:**

**Input Voltage/ Frequency:**

120VAC+/-10%/ 60Hz for N.A.Type Models  
100VAC+/-10%/50-60Hz for Japan Models

**Output Tolerance:**

+/-5% at full load

**Configuration:**

Step Down AC/AC Transformer  
North America Wall Plug-in or Dual Cord In/Out  
(Tabletop Version for GT-3 or GT-7 Models only)

**Operating Temperature:**

0° to +40° C

**Humidity:**

0% to 90% R.H., non-condensing

**Storage Temperature:**

-20° to 70° C

**Dielectric Strength:**

1500VAC pri-sec 1500VAC pri-ground / 500VAC sec-ground (option)

**Enclosure:**

Black Polycarbonate, UL94V-0

**Cooling:**

Thermal Convection, no-vents

**Cords:**

Output: 6 ft. 2 conductor, 24-18AWG;  
Input: 2 or 3 conductor, 18AWG SPT-1 (Tabletop only)

**Safety:**

GT-3, GT-7 models:  
UL1310, C-UL22.2-223, CSA22.2-223,E132594  
GT-8 models:  
UL 60950/ 1950, C-UL 22.2-234, 950, Class I and II, E170507

**EMI:**

FCC Class B

**Notes:**

- 1) Models with suffix (1) are readily available from GlobTek or distributor stock
- 2) For Japanese models add "J" after the Model No. (GT-3 only)
- 3) Within each Model, Output Current may vary from 50mA to Max. Load specified in 50mA increments preserving Output Voltage +/-5% Tolerance

**Unit Size Codes:Case Size Codes:**

**35,41,48,57,60,66 and 06A through 200**

**GT-3 Models EI-35,41,48,57,60,66:**

Transformer Core Size

**GT-7 Models A:**

N.A. Input Blade Style

**06A through 200A:**

Output Power (W)

**GT-8 Models:**

XXYAY = Voltage, Current Rating

AC = AC Output

-CCDD = Transformer Size

(EI-CC X DD)

**P:** Wall Plug Case; **L:** DeskTop Case

**GT-8 Models EI-35R,41R,48R,57R:**

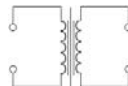
Transformer Core Size

**Options:**

- 1) Primary Earth ground pin and secondary/shield ground (GT-3/GT-7 only)
- 2) Custom output cords, connectors and shielding arrangements
- 3) Other outputs or custom design per customer specifications

**Schematic Diagram:**

**AC Input:**  
120/100VAC  
60Hz/50-60Hz



**AC Output:**  
2.3VAC-36VAC  
50mA-5,000mA



** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)41A-2.3-3000	2.3	3000	EI-41
GT-80305AC-3508	3.0	50	EI-35R
GT-80330AC-4109	3.0	300	EI-41R
GT-3(J)35A-3-400	3.0	400	EI-35
GT-80345AC-3508	3.0	450	EI-35R
GT-3(J)35A-3-800	3.0	800	EI-35
GT-80390AC-B11	3.0	900	EI-48R
GT-3(J)35A-3-900	3.0	900	EI-35
GT-8031AAC-3512	3.0	1000	EI-35R
GT-8031A2AC-3512	3.0	1200	EI-35R
GT-8031A3AC-3512	3.0	1300	EI-35R
GT-8031A5AC-4114	3.0	1500	EI-41X14R
GT-8031A8AC-4114	3.0	1800	EI-41X14R
GT-8032AAC-4114	3.0	2000	EI-41X14R

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-8032A2AC-4114	3.0	2200	EI-48X14R
GT-8032A5AC-4818	3.0	2500	EI-41X18R
GT-8033AAC-5716	3.0	3000	EI-57X16R
GT-8033A8AC-5716	3.0	3800	EI-57X16R
GT-8034AAC-5720	3.0	4000	EI-57X20R
GT-7A10PA-3.5-2800	3.5	2800	A10AP
GT-3(J)35A-3.6-300	3.6	300	EI-35
GT-3(J)35A-3.6-700	3.6	700	EI-35
GT-3(J)35A-3.6-900	3.6	900	EI-35
GT-3(J)48A-4-1000	4.0	1000	EI-48
GT-804505AC-3508	4.5	50	EI-35R
GT-804525AC-3508	4.5	250	EI-35R
GT-804535AC-3508	4.5	350	EI-35R
GT-3(J)35A-4.5-350	4.5	350	EI-35

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
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## AC/AC LINEAR ADAPTORS FOR NORTH AMERICA AND JAPAN

### AC Output, Wall Plug-in and DeskTop, Class 2 Transformers & ITE Transformers

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



 INDOOR USE ONLY  
 FOR OUTDOOR TYPES SEE  
AC/AC WEATHERPROOF ADAPTORS



** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-804560AC-3512	4.5	600	EI-35R
GT-3(J)35A-4.5-700	4.5	700	EI-35
GT-3(J)35A-4.5-800	4.5	800	EI-35
GT-804585AC-3512	4.5	850	EI-35R
GT-3(J)41A-4.5-950	4.5	950	EI-41
GT-80451AAC-4109	4.5	1000	EI-41R
GT-3(J)41A-4.5-1000	4.5	1000	EI-41
GT-80451A3AC-4814	4.5	1300	EI-48X14R
GT-3(J)41A-4.5-1300	4.5	1300	EI-41
GT-80451A4AC-4114	4.5	1400	EI-41X14R
GT-80451A5AC-4814	4.5	1500	EI-48X14R
GT-3(J)41A-4.5-1600	4.5	1600	EI-41
GT-80451A8AC-4814	4.5	1800	EI-48X14R
GT-80452AAC-4814	4.5	2000	EI-48X14R
GT-80452A3AC-4818	4.5	2300	EI-48X18R
GT-80452A5AC-5716	4.5	2500	EI-57X16R
GT-80453AAC-5716	4.5	3000	EI-57X16R
GT-80453A4AC-5716	4.5	3400	EI-57X16R
GT-80453A8AC-5716	4.5	3800	EI-57X20R
GT-80454AAC-5725	4.5	4000	EI-57X25R
GT-80505AC-3508	5.0	50	EI-35R
GT-80510AC-3508	5.0	100	EI-35R
GT-80520AC-3508	5.0	200	EI-35R
GT-80530AC-3508	5.0	300	EI-35R
GT-3(J)35A-5-300	5.0	300	EI-35
GT-80560AC-3512	5.0	600	EI-35R
GT-3(J)35A-5-600	5.0	600	EI-35
GT-3(J)35A-5-700	5.0	700	EI-35
GT-3(J)41A-5-700	5.0	700	EI-41
GT-80580AC-3512	5.0	800	EI-35R
GT-80590AC-4109	5.0	900	EI-41R
GT-3(J)41A-5-900	5.0	900	EI-41
GT-3(J)41A-5-1200	5.0	1200	EI-41
GT-8051A3AC-4114	5.0	1300	EI-41X14R
GT-8051A4AC-4114	5.0	1400	EI-41X14R
GT-3(J)41A-5-1600	5.0	1600	EI-41
GT-8051A8AC-4814	5.0	1800	EI-48X14R
GT-8052AAC-4818	5.0	2000	EI-48X18R
GT-8052A5AC-4818	5.0	2500	EI-48X18R
GT-8052A7AC-5716	5.0	2700	EI-57X16R
GT-8052A9AC-5716	5.0	2900	EI-57X16R
GT-8053AAC-5716	5.0	3000	EI-57X16R

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-8053A2AC-5716	5.0	3200	EI-57X16R
GT-8053A4AC-5716	5.0	3400	EI-57X16R
GT-8053A8AC-5720	5.0	3800	EI-57X20R
GT-80605AC-3508	6.0	50	EI-35R
GT-80610AC-3508	6.0	100	EI-35R
GT-80620AC-3508	6.0	200	EI-35R
GT-80625AC-3508	6.0	250	EI-35R
GT-3(J)35A-6-300	6.0	300	EI-35
GT-80650AC-3512	6.0	500	EI-35R
GT-3(J)35A-6-600	6.0	600	EI-35
GT-3(J)35A-6-700	6.0	700	EI-35
GT-80670AC-3512	6.0	700	EI-35R
GT-80680AC-4114	6.0	800	EI-41X14R
GT-80670AC-4114	6.0	900	EI-41X14R
GT-3(J)41A-6-900	6.0	900	EI-41
GT-8061AAC-4814	6.0	1000	EI-48X14R
GT-3(J)41A-6-1200	6.0	1200	EI-41
GT-8061A2AC-4114	6.0	1200	EI-41X14R
GT-8061A3AC-B11	6.0	1300	EI-48X14R
GT-8061A5AC-4814	6.0	1500	EI-48X14R
GT-3(J)41A-6-1500	6.0	1500	EI-41
GT-3(J)48A-6-1600	6.0	1600	EI-48
GT-7A10LA-6-1670	6.0	1670	A10AL
GT-3(J)48A-6-1800	6.0	1800	EI-48
GT-8062AAC-4818	6.0	2000	EI-48X18R
GT-3(J)48A-6-2000	6.0	2000	EI-48
GT-8062A5AC-5716	6.0	2500	EI-57X16R
GT-8062A7AC-5716	6.0	2700	EI-57X16R
GT-8063AAC-5720	6.0	3000	EI-57X20R
GT-8063A2AC-5720	6.0	3200	EI-57X20R
GT-8063A5AC-5725	6.0	3500	EI-57X25R
GT-7A30PA-6-5000	6.0	5000	A30AP
GT-3(J)41A-7-600	7.0	600	EI-41
GT-3(J)41A-7-800	7.0	800	EI-41
GT-3(J)41A-7-1100	7.0	1100	EI-41
GT-3(J)41A-7-1400	7.0	1400	EI-41
GT-807505AC-3508	7.5	50	EI-35R
GT-807510AC-3508	7.5	100	EI-35R
GT-807520AC-3512	7.5	200	EI-35R
GT-3(J)35A-7.5-250	7.5	250	EI-35
GT-807530AC-3512	7.5	300	EI-35R
GT-3(J)35A-7.5-500	7.5	500	EI-35

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ISO 9001:2000  
REGISTERED



AC Output, Wall Plug-in and DeskTop, Class 2 Transformers & ITE Transformers

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY  
FOR OUTDOOR TYPES SEE  
AC/AC WEATHERPROOF ADAPTORS

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-807550AC-3512	7.5	500	EI-35R
GT-807560AC-3512	7.5	600	EI-35R
GT-3(J)35A-7.5-650	7.5	650	EI-35
GT-807580AC-4114	7.5	800	EI-41X14R
GT-3(J)41A-7.5-800	7.5	800	EI-41
GT-807590AC-4114	7.5	900	EI-41X14R
GT-80751A1AC-B11	7.5	1100	EI-48R
GT-3(J)41A-7.5-1100	7.5	1100	EI-41
GT-80751A3AC-4814	7.5	1300	EI-48X14R
GT-7A10LA-7.5-1330	7.5	1330	A10AL
GT-80751A4AC-4814	7.5	1400	EI-48X14R
GT-3(J)41A-7.5-1400	7.5	1400	EI-41
GT-80751A5AC-4818	7.5	1500	EI-48X18R
GT-80751A6AC-4818	7.5	1600	EI-48X18R
GT-3(J)48A-7.5-1700	7.5	1700	EI-48
GT-3(J)48A-7.5-1900	7.5	1900	EI-48
GT-80752AAC-5716	7.5	2000	EI-57X16R
GT-80752A1AC-5716	7.5	2100	EI-57X16R
GT-80752A5AC-5720	7.5	2500	EI-57X20R
GT-80752A6AC-5720	7.5	2600	EI-57X20R
GT-80753A5AC-5725	7.5	3500	EI-57X25R
GT-7A30PA-7.5-4000	8.0	4000	A30AP
GT-80805AC-3508	8.0	50	EI-35R
GT-80810AC-3508	8.0	100	EI-35R
GT-80820AC-3508	8.0	200	EI-35R
GT-3(J)35A-8-250	8.0	250	EI-35
GT-80830AC-3512	8.0	300	EI-35R
GT-3(J)35A-8-500	8.0	500	EI-35
GT-80850AC-3512	8.0	500	EI-35R
GT-80855AC-3512	8.0	550	EI-35R
GT-80860AC-4114	8.0	600	EI-41X14R
GT-3(J)35A-8-600	8.0	600	EI-35
GT-80880AC-4114	8.0	800	EI-41X14R
GT-80890AC-4114	8.0	900	EI-41X14R
GT-8081AAC-B11	8.0	1000	EI-48X14R
GT-8081A2AC-4814	8.0	1200	EI-48X14R
GT-8081A5AC-5716	8.0	1500	EI-57X16R
GT-8082A1AC-5716	8.0	2100	EI-57X16R
GT-80905AC-3508	9.0	50	EI-35R
GT-3(J)35A-9-150	9.0	150	EI-35
GT-80915AC-3508	9.0	150	EI-35R
GT-80920AC-3508	9.0	200	EI-35R

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-80930AC-3512	9.0	300	EI-35R
GT-80930AC-3512	9.0	400	EI-35R
GT-3(J)35A-9-500	9.0	500	EI-35
GT-80950AC-3512	9.0	500	EI-35R
GT-80960AC-4114	9.0	600	EI-41X14R
GT-3(J)35A-9-600	9.0	600	EI-35
GT-3(J)41A-9-800	9.0	800	EI-41
GT-80980AC-4114	9.0	800	EI-41X14R
GT-80990AC-4814	9.0	900	EI-48X14R
GT-8091AAC-B11	9.0	1000	EI-48X14R
GT-3(J)41A-9-1000	9.0	1000	EI-41
GT-8091A1AC-4814	9.0	1100	EI-48X14R
GT-7A10LA-9-1110	9.0	1110	A10AL
GT-3(J)41A-9-1200	9.0	1200	EI-41
GT-8091A5AC-4818	9.0	1500	EI-48X18R
GT-3(J)41A-9-1500	9.0	1500	EI-41
GT-3(J)48A-9-1500	9.0	1500	EI-48
GT-8091A7AC-5716	9.0	1700	EI-57X16R
GT-3(J)48A-9-1800	9.0	1800	EI-48
GT-8092AAC-5716	9.0	2000	EI-57X16R
GT-8092A2AC-5720	9.0	2200	EI-57X20R
GT-8093AAC-5725	9.0	3000	EI-57X25R
GT-7A30PA-9-3330	9.0	3330	A30AP
GT-7A40PA-9-4440	9.0	4440	A40AP
GT-81005AC-3508	10.0	50	EI-35R
GT-81010AC-3508	10.0	100	EI-35R
GT-81015AC-3508	10.0	150	EI-35R
GT-81018AC-3508	10.0	180	EI-35R
GT-81030AC-3512	10.0	300	EI-35R
GT-81040AC-3512	10.0	400	EI-35R
GT-81045AC-3512	10.0	450	EI-35R
GT-3(J)41A-10-500	10.0	500	EI-41
GT-81060AC-4114	10.0	600	EI-41X14R
GT-81070AC-4114	10.0	700	EI-41X14R
GT-3(J)41A-10-750	10.0	750	EI-41
GT-81090AC-4114	10.0	900	EI-48R
GT-3(J)41A-10-900	10.0	900	EI-41
GT-8101AAC-4814	10.0	1000	EI-48X14R
GT-8101A1AC-4818	10.0	1100	EI-48X18R
GT-3(J)41A-10-1100	10.0	1100	EI-41
GT-3(J)48A-10-1100	10.0	1100	EI-48
GT-8101A2AC-4818	10.0	1200	EI-48X18R



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## AC/AC LINEAR ADAPTORS FOR NORTH AMERICA AND JAPAN

### AC Output, Wall Plug-in and DeskTop, Class 2 Transformers & ITE Transformers

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

 INDOOR USE ONLY  
FOR OUTDOOR TYPES SEE  
AC/AC WEATHERPROOF ADAPTORS



** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-8101A3AC-4818	10.0	1300	EI-48X18R
GT-3(J)48A-10-1400	10.0	1400	EI-48
GT-8101A5AC-5716	10.0	1500	EI-57X16R
GT-3(J)48A-10-1700	10.0	1700	EI-48
GT-8101A7AC-5716	10.0	1700	EI-57X16R
GT-8101A8AC-5720	10.0	1800	EI-57X20R
GT-8101A9AC-5720	10.0	1900	EI-57X20R
GT-8102A7AC-5725	10.0	2700	EI-57X25R
GT-81205AC-3508	12.0	50	EI-35R
GT-81210AC-3508	12.0	100	EI-35R
GT-81215AC-3508	12.0	150	EI-35R
GT-81220AC-3512	12.0	200	EI-35R
GT-3(J)35A-12-200	12.0	200	EI-35
GT-81230AC-3512	12.0	300	EI-35R
GT-81235AC-3512	12.0	350	EI-35R
GT-81240AC-4114	12.0	400	EI-41X14R
GT-3(J)35A-12-400	12.0	400	EI-35
GT-3(J)35A-12-500	12.0	500	EI-35
GT-81260AC-4114	12.0	600	EI-41X14R
GT-3(J)41A-12-600	12.0	600	EI-41
GT-81275AC-B11	12.0	750	EI-48X11R
GT-81280AC-4814	12.0	800	EI-48X14R
GT-3(J)41A-12-800	12.0	800	EI-41
GT-7A10LA-12-830	12.0	830	A10AL
GT-81290AC-4814	12.0	900	EI-48X14R
GT-3(J)41A-12-900	12.0	900	EI-41
GT-8121AAC-4818	12.0	1000	EI-48X18R
GT-8121A1AC-4818	12.0	1100	EI-48X18R
GT-3(J)41A-12-1200	12.0	1200	EI-41
GT-3(J)48A-12-1200	12.0	1200	EI-48
GT-8121A4AC-5716	12.0	1400	EI-57X16R
GT-3(J)48A-12-1500	12.0	1500	EI-48
GT-8121A5AC-5716	12.0	1500	EI-57X16R
GT-8121A6AC-5716	12.0	1600	EI-57X16R
GT-3(J)48A-12-1600	12.0	1600	EI-48
GT-7A20PA-12-1670	12.0	1670	A20AP
GT-8121A8AC-5720	12.0	1800	EI-57X20R
GT-7A24PA-12-1830	12.0	1830	A24AP
GT-8122A2AC-5725	12.0	2200	EI-57X25R
GT-7A30PA-12-2500	12.0	2500	A30AP
GT-7A36P(L)A-12-3000	12.0	3000	A36AP(L)
GT-7A40PA-12-3330	12.0	3330	A40AP

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-7A50LA-12-4170	12.0	4170	A50AL
GT-7A60LA-12-5000	12.0	5000	A60AL
GT-81330AC-4814	13.0	300	EI-48X14R
GT-81380AC-4814	13.0	800	EI-48X14R
GT-8131AAC-5716	13.0	1000	EI-57X16R
GT-8131A2AC-5716	13.0	1200	EI-57X16R
GT-8131A4AC-5716	13.0	1400	EI-57X16R
GT-8131A5AC-5720	13.0	1500	EI-57X20R
GT-8131A6AC-5720	13.0	1600	EI-57X20R
GT-8132AAC-5725	13.0	2000	EI-57X25R
GT-7A30PA-13-2300	13.0	2300	A30AP
GT-7A40PA-13.5-2960	13.5	2960	A40AP
GT-7A30PA-13.8-2170	13.8	2170	A30AP
GT-81410AC-3512	14.0	100	EI-35R
GT-81430AC-3512	14.0	300	EI-35R
GT-3(J)41A-14-350	14.0	350	EI-41
GT-81440AC-4114	14.0	400	EI-41X14R
GT-81450AC-4114	14.0	500	EI-41X14R
GT-3(J)41A-14-500	14.0	500	EI-41
GT-81465AC-B11	14.0	650	EI-48X14R
GT-81470AC-4814	14.0	700	EI-48X14R
GT-3(J)41A-14-700	14.0	700	EI-41
GT-7A10LA-14-710	14.0	710	A10AL
GT-81475AC-4814	14.0	750	EI-48X14R
GT-3(J)41A-14-750	14.0	750	EI-41
GT-3(J)48A-14-800	14.0	800	EI-48
GT-81490AC-4818	14.0	900	EI-48X18R
GT-81495AC-4818	14.0	950	EI-48X18R
GT-3(J)48A-14-1100	14.0	1100	EI-48
GT-3(J)48A-14-1200	14.0	1200	EI-48
GT-8141A3AC-5716	14.0	1300	EI-57X16R
GT-8141A4AC-5716	14.0	1400	EI-57X16R
GT-8141A5AC-5720	14.0	1500	EI-57X20R
GT-8141A6AC-5720	14.0	1600	EI-57X20R
GT-3(J)57A-14-1800	14.0	1800	EI-57
GT-8142AAC-5725	14.0	2000	EI-57X25R
GT-7A30PA-14-2140	14.0	2140	A30AP
GT-7A40PA-14-2860	14.0	2860	A40AP
GT-81505AC-3508	15.0	50	EI-35R
GT-81510AC-3508	15.0	100	EI-35R
GT-81512AC-3508	15.0	120	EI-35R
GT-3(J)35A-15-150	15.0	150	EI-35

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AC Output, Wall Plug-in and DeskTop, Class 2 Transformers & ITE Transformers

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY  
FOR OUTDOOR TYPES SEE  
AC/AC WEATHERPROOF ADAPTORS

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-81520AC-3512	15.0	200	EI-35R
GT-81525AC-3512	15.0	250	EI-35R
GT-81530AC-3512	15.0	300	EI-35R
GT-3(J)35A-15-350	15.0	350	EI-35
GT-81540AC-4114	15.0	400	EI-41X14R
GT-3(J)35A-15-400	15.0	400	EI-35
GT-81545AC-4114	15.0	450	EI-41X14R
GT-3(J)41A-15-500	15.0	500	EI-41
GT-81565AC-4814	15.0	650	EI-48X14R
GT-3(J)41A-15-650	15.0	650	EI-41
GT-7A10LA-15-670	15.0	670	A10AL
GT-81570AC-4814	15.0	700	EI-48X14R
GT-3(J)41A-15-750	15.0	750	EI-48X14R
GT-81580AC-4818	15.0	800	EI-48X18R
GT-81590AC-4818	15.0	900	EI-48X18R
GT-3(J)41A-15-1000	15.0	1000	EI-41
GT-3(J)48A-15-1100	15.0	1100	EI-48
GT-3(J)48A-15-1200	15.0	1200	EI-48
GT-8151A2AC-5716	15.0	1200	EI-57X16R
GT-8151A3AC-5716	15.0	1300	EI-57X16R
GT-3(J)48A-15-1500	15.0	1500	EI-48
GT-8151A5AC-5720	15.0	1500	EI-57X20R
GT-8151A6AC-5720	15.0	1800	EI-57X25R
GT-7A30PA-15-2000	15.0	2000	A30AP
GT-7A40PA-15-2860	15.0	2860	A40AP
GT-81605AC-3508	16.0	50	EI-35R
GT-81610AC-3508	16.0	100	EI-35R
GT-81620AC-3512	16.0	200	EI-35R
GT-81625AC-3512	16.0	250	EI-35R
GT-3(J)41A-16-250	16.0	250	EI-41
GT-81630AC-4109	16.0	300	EI-41R
GT-3(J)41A-16-350	16.0	350	EI-41
GT-3(J)41A-16-375	16.0	375	EI-41
GT-81640AC-4114	16.0	400	EI-41X14R
GT-81645AC-4114	16.0	450	EI-41X14R
GT-3(J)41A-16-500	16.0	500	EI-41
GT-81655AC-B11	16.0	550	EI-48R
GT-81660AC-4814	16.0	600	EI-48X14R
GT-3(J)41A-16-600	16.0	600	EI-41
GT-7A10LA-16-620	16.0	620	A10AL
GT-81665AC-4814	16.0	650	EI-48X14R
GT-81670AC-4818	16.0	700	EI-48X18R

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)48A-16-700	16.0	700	EI-48
GT-81685AC-4818	16.0	850	EI-48X18R
GT-8161AAC-5716	16.0	1000	EI-57X16R
GT-3(J)48A-16-1000	16.0	1000	EI-48
GT-3(J)48A-16-1100	16.0	1100	EI-48
GT-8161A2AC-5716	16.0	1200	EI-57X16R
GT-8161A5AC-5720	16.0	1500	EI-57X20R
GT-8161A6AC-5725	16.0	1600	EI-57X25R
GT-8161A7AC-5725	16.0	1700	EI-57X25R
GT-7A30PA-16-1880	16.0	1880	A30AP
GT-7A40PA-16-2420	16.5	2420	A40AP
GT-81775AC-5720	17.0	750	EI-57X20R
GT-8171A4AC-5720	17.0	1400	EI-57X20R
GT-81805AC-3508	18.0	50	EI-35R
GT-81810AC-3508	18.0	100	EI-35R
GT-81815AC-3512	18.0	150	EI-35R
GT-3(J)35A-18-150	18.0	150	EI-35
GT-81820AC-3512	18.0	200	EI-35R
GT-81825AC-3512	18.0	250	EI-35R
GT-81830AC-4114	18.0	300	EI-41X14R
GT-3(J)35A-18-300	18.0	300	EI-35
GT-3(J)35A-18-350	18.0	350	EI-35
GT-81840AC-4114	18.0	400	EI-41X14R
GT-3(J)41A-18-500	18.0	500	EI-41
GT-81855AC-B11	18.0	550	EI-48R
GT-3(J)41A-18-550	18.0	550	EI-41
GT-7A10LA-18-560	18.0	560	A10AL
GT-81860AC-4814	18.0	600	EI-48X14R
GT-3(J)41A-18-600	18.0	600	EI-41
GT-81865AC-4818	18.0	650	EI-48X18R
GT-81875AC-4818	18.0	750	EI-48X18R
GT-3(J)48A-18-800	18.0	800	EI-48
GT-81895AC-5716	18.0	950	EI-57X16R
GT-3(J)48A-18-1000	18.0	1000	EI-48
GT-8181AAC-57216	18.0	1000	EI-57X16R
GT-8181A1AC-5716	18.0	1100	EI-57X16R
GT-8181A3AC-5720	18.0	1300	EI-57X20R
GT-8181A5AC-5725	18.0	1500	EI-57X25R
GT-7A30PA-18-1670	18.0	1670	A30AP
GT-7A40PA-18-2220	18.0	2220	A40AP
GT-3(J)41A-19-300	19.0	300	EI-41
GT-3(J)41A-19-450	19.0	450	EI-41



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## AC/AC LINEAR ADAPTORS FOR NORTH AMERICA AND JAPAN

### AC Output, Wall Plug-in and DeskTop, Class 2 Transformers & ITE Transformers

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

 INDOOR USE ONLY  
FOR OUTDOOR TYPES SEE  
AC/AC WEATHERPROOF ADAPTORS



** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-3(J)41A-19-500	19.0	500	EI-41
GT-3(J)41A-19-550	19.0	550	EI-41
GT-82005AC-3508	20.0	50	EI-35R
GT-82008AC-3508	20.0	80	EI-35R
GT-82010AC-3512	20.0	100	EI-35R
GT-82015AC-3512	20.0	150	EI-35R
GT-82020AC-3512	20.0	200	EI-35R
GT-82020AC-4109	20.0	200	EI-41X14R
GT-3(J)35A-20-200	20.0	200	EI-35
GT-82030AC-4114	20.0	300	EI-41X14R
GT-82040AC-B11	20.0	400	EI-41X14R
GT-82045AC-B11	20.0	450	EI-41X14R
GT-82050AC-4814	20.0	500	EI-41X14R
GT-7A10LA-20-500	20.0	500	A10AL
GT-82060AC-4818	20.0	600	EI-48X18R
GT-7A12PA-20-600	20.0	600	A12AP
GT-82065AC-4818	20.0	650	EI-48X18R
GT-82070AC-4818	20.0	700	EI-48X18R
GT-82090AC-5716	20.0	900	EI-57X16R
GT-82095AC-5716	20.0	950	EI-57X16R
GT-8201AAC-5720	20.0	1000	EI-57X20R
GT-8201A25AC-5720	20.0	1250	EI-57X20R
GT-8201A4AC-5725	20.0	1400	EI-57X25R
GT-7A30PA-20-1500	20.0	1500	A30AP
GT-7A40PA-20-2000	20.0	2000	A40AP
GT-3(J)35A-21-100	21.0	100	EI-35
GT-3(J)35A-21-250	21.0	250	EI-35
GT-3(J)35A-21-300	21.0	300	EI-35
GT-3(J)41A-21-300	21.0	300	EI-41
GT-3(J)41A-21-400	21.0	400	EI-41
GT-3(J)41A-21-450	21.0	450	EI-41
GT-3(J)41A-21-500	21.0	500	EI-41
GT-3(J)48A-21-650	21.0	650	EI-48
GT-3(J)48A-21-850	21.0	850	EI-48
GT-82205AC-3508	22.0	50	EI-35R
GT-82210AC-3512	22.0	100	EI-35R
GT-82220AC-3512	22.0	200	EI-35R
GT-82225AC-4114	22.0	250	EI-41X14R
GT-82230AC-4114	22.0	300	EI-41X14R
GT-7A10LA-22-450	22.0	450	A10AL
GT-82250AC-5716	22.0	500	EI-57X16R
GT-7A12PA-22-540	22.0	540	A12AP

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GT-82260AC-4818	22.0	600	EI-48X18R
GT-82280AC-5716	22.0	800	EI-57X16R
GT-82290AC-5716	22.0	900	EI-57X16R
GT-8221AAC-5720	22.0	1000	EI-57X20R
GT-8221A1AC-5725	22.0	1100	EI-57X25R
GT-8221A2AC-5725	22.0	1200	EI-57X25R
GT-7A30PA-22-1360	22.0	1360	A30AP
GT-7A33LA-22-1500	22.0	1500	A33AL
GT-7A40PA-22-1820	22.0	1820	A40AP
GT-82405AC-3508	24.0	50	EI-35R
GT-82410AC-4114	24.0	100	41X14R
GT-3(J)35A-24-100	24.0	100	EI-35
GT-3(J)35A-24-150	24.0	150	EI-35
GT-82420AC-3508	24.0	200	EI-41X14R
GT-3(J)35A-24-200	24.0	200	EI-35
GT-82425AC-4114	24.0	250	41X14R
GT-82430AC-4114	24.0	300	EI-41X14R
GT-3(J)41A-24-300	24.0	300	EI-41
GT-82440AC-4814	24.0	400	48X14R
GT-3(J)41A-24-400	24.0	400	EI-41
GT-7A10LA-24-420	24.0	420	A10AL
GT-82445AC-4814	24.0	450	EI-48X14R
GT-3(J)41A-24-450	24.0	450	EI-41
GT-3(J)41A-24-500	24.0	500	EI-41
GT-82450AC-4818	24.0	500	EI-48X18R
GT-82455AC-4818	24.0	550	EI-48X18R
GT-3(J)48A-24-600	24.0	600	EI-48
GT-82470AC-5716	24.0	700	EI-57X16R
GT-3(J)48A-24-750	24.0	750	EI-48
GT-82480AC-5716	24.0	800	EI-57X16R
GT-7A20PA-24-830	24.0	830	A20AP
GT-82495AC-5720	24.0	850	EI-57X20R
GT-7A24PA-24-1000	24.0	1000	A24AP
GT-8241A2AC-5725	24.0	1200	EI-57X25R
GT-7A30PA-24-1250	24.0	1250	A30AP
GT-7A33LA-24-1250CT	24.0	1250	A33AL
GT-7A36PA-24-1500	24.0	1500	A36AP
GT-7A40PA-24-1670	24.0	1670	A40AP
GT-7A60LA-24-2500	24.0	2500	A60AL
GT-7A36PA-36-1000	36.0	1000	A36AP

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**AC Output, Wall Plug-In and DeskTop, Class 2 Transformer**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY  
FOR OUTDOOR TYPES SEE  
AC/AC WEATHERPROOF ADAPTORS

**General Specifications:**

**Input Voltage/ Frequency:**

230VAC+/-10%/ 50Hz for Euro.Type Models  
240VAC+/-10%/ 50Hz for Australia, UK Type Models

**Output Voltage Tolerance:**

+/-5% at full load

**Protection:**

Primary Thermal Fuse

**Configuration:**

Step Down AC/AC Transformer Euro./U.K./Australia (SAA)  
Type Wall Plug-in or DeskTop In/ Out

**Operating Temperature:**

0°-40° C

**Humidity:**

0%-90% R.H., non-condensing

**Storage Temperature:**

-20°-70° C

**Dielectric Strength:**

2500VAC pri-sec 2500VAC pri-ground / 500VAC  
sec-ground (option)

**Enclosure:**

Black Polycarbonate, UL94V-0

**Cooling:**

Thermal Convection, no-vents

**Cords:**

Standard, 6 ft. 2 conductor, 24-16AWG Output;  
2 or 3 conductor, 18AWG SPT-1 Input (DeskTop)  
For other output cords, please refer to Output Plug/Cord  
Options

**Safety:**

All Models are TUV/GS approved to EN60950;  
TUV Subscriber #41405  
Australian Models comply with AS/NZS 3108

**EMI:**

CE Compliant

**Notes:**

1) For unit size and output cords please refer to Adaptors  
Case Style and Adaptors Output Plug /Cord options

2) For Input Blade Options please refer to International-  
Adaptor Input Blade Options

\*3) Within each Model Output Current may vary from 50mA  
to max load specified in 50 mA increments preserving  
output voltage +/- 5% tolerance.

\*\*4) Optional for specifying Output Voltage Deviation from  
Standard Model add Suffix -x.x to Model No.

**Unit Size Codes:**

GT-3 Models EI-35,41,48,57,60,66: Transformer Core Size  
OR

**GT-D Models Input Blade Style:**

E: Euro; B: U.K.; S: Australia

06 through 200A: Output Power (w)

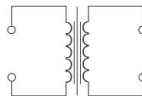
P: Wall Plug Case; L: DeskTop Case

**Options:**

- 1) Primary earth ground pin and secondary/shield ground
- 2) Custom output cords, connectors and shielding arrangements
- 3) Other outputs or custom design per customer specifications

**Schematic Diagram: AC Input: AC Output:**

AC Input:  
220/230/240VAC  
50Hz



AC Output:  
2.3VAC-36VAC  
50mA-16, 670mA



**Model Selection Road Map Example:**

1. Required: ITE EN60950 9VAC/ 800mA, EURO, "2" Prong Plug, Wall Plug-In, Output Plug 2.5mm ID Barrel.
2. Selection table presented in increasing output voltage order; page 2: locate 9V with higher incremental current: GT-3T48A-9-900
3. Model Selected: GT-348A-9-800 w/ case Size EI-48; Please refer to Adaptors Case Style.
4. Output Plug/Cord selected "L-"; Please refer to Adaptors Plug/Cord Options

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	EURO. WALL PLUG (E)	U.K. WALL PLUG (B)	SAA WALL PLUG (S)	EURO DESKTOP	U.K. DESKTOP	SAA DESKTOP
GT-3A41A-2.3-3000	2.3	3000	EI-41			■			■
GT-DE(B,S)-06-3.52.3	3.5	1710	E(B,S)06AP	■	■	■			
GT-DE(B,S)-10-3.5(L)	3.5	2860	E(B,S)10AP(L)	■	■	■	■	■	
GT-DE(B)-12-3.5	3.5	3430	E(B)12AP	■	■				
GT-DE(B)-16-3.5	3.5	4570	E(B)16AP	■	■				
GT-DE(B,S)-20-3.5	3.5	5710	E(B,S)20AP	■	■	■			
GT-DS-30-3.5L	3.5	8570	S30AL						■
GT-DE(B,S)-06-06	6.0	1000	E(B,S)06AP	■	■	■			
GT-DE(B,S)-10-0.6	6.0	1670	E(B,S)10AP(L)	■	■	■	■	■	
GT-DE(B,S)-12-06	6.0	2000	E(B,S)12AP	■	■				
GT-DE(B)-16-06	6.0	2670	E(B)16AP	■	■				
GT-DE(B,S)-20-06	6.0	3330	E(B,S)20AP	■	■	■			

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## AC/AC LINEAR ADAPTORS FOR EUROPE, U.K., AUSTRALIA

### AC Output, Wall Plug-In and DeskTop, Class 2 Transformer

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY  
FOR OUTDOOR TYPES SEE  
AC/AC WEATHERPROOF ADAPTORS



** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	EURO. WALL PLUG (E)	U.K. WALL PLUG (B)	SAA WALL PLUG (S)	EURO DESKTOP	U.K. DESKTOP	SAA DESKTOP
GT-DE(B)-22-06	6.0	3670	E(B)22AP	■	■				
GT-DE(B,S)-30-06L	6.0	5000	E(B,S)30AL				■	■	■
GT-DE(B,S)-36-06L	6.0	6000	E(B,S)36AL				■	■	■
GT-DE(B,S)-45-06L	6.0	7500	E(B,S)45AL				■	■	■
GT-DE(B,S)-60-06L	6.0	10000	E(B,S)60AL				■	■	■
GT-3T35A-7-350	7.0	350		■	■				
GT-DE(B,S)-06-7.5	7.5	800	E(B,S)06AP	■	■	■			
GT-DE(B,S)-10-7.5(L)	7.5	1330	E(B,S)10AP(L)	■	■	■	■	■	
GT-DE(B)-12-7.5	7.5	1600	E(B)12AP	■	■				
GT-DE(B)-16-7.5	7.5	2130	E(B)16AP	■	■				
GT-DE(B,S)-20-7.5	7.5	2670	E(B,S)20AP	■	■	■			
GT-DE(B)-22-7.5	7.5	2930	E(B)22AP	■	■				
GT-DE(B,S)-30-7.5L	7.5	4000	E(B,S)30AL				■	■	■
GT-DE(B,S)-36-7.5L	7.5	4800	E(B,S)36AL				■	■	■
GT-DE(B,S)-45-7.5L	7.5	6000	E(B,S)45AL				■	■	■
GT-DE(B,S)-60-7.5L	7.5	8000	E(B,S)60AL				■	■	■
GT-3T35A-9-300	9.0	300	EI-35	■	■				
GT-3T35A-9-350	9.0	350	EI-35	■	■				
GT-3T41A-9-400	9.0	400	EI-41	■	■		■	■	
GT-3T41A-9-500	9.0	500	EI-41	■	■		■	■	
GT-3T41A-9-600	9.0	600	EI-41	■	■		■	■	
GT-DE(B,S)-06-09	9.0	670	E(B,S)06AP	■	■	■			
GT-3T41A-9-700	9.0	700	EI-41	■	■		■	■	
GT-3T41A-9-750	9.0	750	EI-41	■	■		■	■	
GT-3T41A-9-780	9.0	780	EI-41	■	■		■	■	
GT-3T48A-9-900	9.0	900	EI-48	■	■		■	■	
GT-3T48A-9-1000	9.0	1000	EI-48	■	■		■	■	
GT-DE(B,S)-10-09(L)	9.0	1110	E(B,S)10AP(L)	■	■	■	■	■	
GT-3T48A-9-1200	9.0	1200	EI-48	■	■		■	■	
GT-DE(B)-12-09	9.0	1330	E(B)12AP	■	■				
GT-DE(B)-16-09	9.0	1780	E(B)16AP	■	■				
GT-DE(B,S)-20-09	9.0	2220	E(B,S)20AP	■	■	■			
GT-DE(B)-22-09	9.0	2440	E(B)22AP	■	■				
GT-DE(B,S)-30-09L	9.0	3330	E(B,S)30AL				■	■	■
GT-DE(B,S)-36-09L	9.0	4000	E(B,S)36AL				■	■	■
GT-DE(B,S)-45-09L	9.0	5000	E(B,S)45AL				■	■	■
GT-DE(B,S)-60-09L	9.0	6670	E(B,S)60AL				■	■	■
GT-DE(B)-105-09L	9.0	11670	E(B)105AL				■	■	
GT-3T(A)41A-12-300	12.0	300	EI-41	■	■	■	■	■	■
GT-3T41A-12-400	12.0	400	EI-41	■	■		■	■	
GT-3T41A-12-500	12.0	500	EI-41	■	■		■	■	
GT-DE(B,S)-06-12	12.0	500	E(B,S)06AP	■	■	■			

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## AC Output, Wall Plug-In and DeskTop, Class 2 Transformer

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

 INDOOR USE ONLY  
FOR OUTDOOR TYPES SEE  
AC/AC WEATHERPROOF ADAPTORS

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	EURO. WALL PLUG (E)	U.K. WALL PLUG (B)	SAA WALL PLUG (S)	EURO DESKTOP	U.K. DESKTOP	SAA DESKTOP
GT-3T41A-12-600	12.0	600	EI-41	■	■		■	■	
GT-3T48A-12-800	12.0	800	EI-48	■	■		■	■	
GT-DE(B,S)-10-12(L)	12.0	830	E(B,S)10AP(L)	■	■	■	■	■	
GT-3T48A-12-900	12.0	900	EI-48	■	■		■	■	
GT-3T48A-12-1000	12.0	1000	EI-48	■	■		■	■	
GT-DE(B)-12-12	12.0	1000	E(B)12AP	■	■				
GT-DE(B)-16-12	12.0	1330	E(B)16AP	■	■				
GT-3T48A-12-1500	12.0	1500	EI-48	■	■		■	■	
GT-DE(B,S)-20-12(L)	12.0	1670	E(B,S)20AP(L)	■	■	■	■	■	
GT-DE(B)-22-12	12.0	1830	E(B)22AP	■	■				
GT-DE(B,S)-30-12L	12.0	2500	E(B,S)30AL				■	■	■
GT-DB-35-12	12.0	2920	B35AP			■			
GT-DE(B,S)-36-12L	12.0	3000	E(B,S)36AL				■	■	■
GT-DE(B,S)-45-12L	12.0	3750	E(B,S)45AL				■	■	■
GT-DE-52-12L	12.0	4170	E-52AL				■		
GT-DE(B,S)-60-12L	12.0	5000	E(B,S)60AL				■	■	■
GT-DE(B,S)-105-12L	12.0	8750	E(B,S)105AL				■	■	■
GT-DE-120-12L	12.0	10000	E120AL				■		
GT-DE(B,S)-150-12L	12.0	12500	E(B,S)150AL				■	■	■
GT-DE-180-12L	12.0	15000	E180AL				■		
GT-DE-200-12L	12.0	16670	E200AL				■		
GT-DE(B)-10-14L	14.0	710	E(B)10AL				■	■	
GT-DE(B)-16-14	14.0	1140	E(B)16AP	■	■				
GT-DE(B,S)-06-15	15.0	400	E(B,S)06AP	■	■	■			
GT-DE(B,S)-10-15(L)	15.0	670	E(B,S)10AP	■	■	■	■	■	
GT-3T48A-15-800	15.0	800	EI-48	■	■		■	■	
GT-DE(B)-12-15	15.0	800	E(B)12AP	■	■				
GT-DE(B)-16-15	15.0	1070	E(B)16AP	■	■				
GT-DE(B,S)-20-15	15.0	1330	E(B,S)20AP	■	■	■			
GT-DE(B)-22-15	15.0	1470	E(B)22AP	■	■				
GT-DE(B,S)-30-15L	15.0	2000	E(B,S)30AL				■	■	■
GT-DE(B,S)-36-15L	15.0	2400	E(B,S)36AL				■	■	■
GT-DE(B,S)-45-15L	15.0	3000	E(B,S)45AL				■	■	■
GT-DE(B,S)-60-15L	15.0	4000	E(B,S)60AL				■	■	■
GT-DE(B)-10-16L	16.0	620	E(B)10AL				■	■	
GT-3T48A-16-700	16.0	700	EI-48	■	■		■	■	
GT-3T48A-16-800	16.0	800	EI-48	■	■		■	■	
GT-DE(B)-16-16	16.0	1000	E(B)16AP	■	■				
GT-DE(B,S)-06-18	18.0	330	E(B,S)06AP	■	■	■			
GT-DE(B,S)-10-18(L)	18.0	560	E(B,S)10AP(L)	■	■	■	■	■	
GT-DE(B)-12-18	18.0	670	E(B)12AP	■	■				
GT-DE(B)-16-18	18.0	890	E(B)16AP	■	■				



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## AC/AC LINEAR ADAPTORS FOR EUROPE, U.K., AUSTRALIA

### AC Output, Wall Plug-In and DeskTop, Class 2 Transformer

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY  
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** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	EURO. WALL PLUG (E)	U.K. WALL PLUG (B)	SAA WALL PLUG (S)	DESKTOP EURO	DESKTOP U.K.	DESKTOP SAA
GT-DE(B,S)-20-18	18.0	1110	E(B,S)20AP	■	■	■			
GT-DE(B)-22-18	18.0	1220	E(B)22AP	■	■				
GT-DE(B,S)-30-18L	18.0	1670	E(B,S)30AL				■	■	■
GT-DE(B,S)-36-18L	18.0	2000	E(B,S)36AL				■	■	■
GT-DE(B,S)-45-18L	18.0	2500	E(B,S)45AL				■	■	■
GT-DE(B,S)-60-18L	18.0	3330	E(B,S)60AL				■	■	■
GT-3T41A-20-200	20.0	200	EI-41	■	■		■	■	
GT-DE(B,S)-06-20	20.0	300	E(B,S)06AP	■	■	■			
GT-DE(B,S)-10-20(L)	20.0	500	E(B,S)10AP(L)	■	■	■	■	■	
GT-DE(B)-12-20	20.0	600	E(B)12AP	■	■				
GT-DE(B)-16-20	20.0	800	E(B)16AP	■	■				
GT-DE(B,S)-20-20(L)	20.0	1000	E(B,S)20AP(L)	■	■	■	■		
GT-DE(B)-22-20	20.0	1100	E(B)22AP	■	■				
GT-DE(B,S)-30-20L	20.0	1500	E(B,S)30AL				■	■	■
GT-DE(B,S)-36-20L	20.0	1800	E(B,S)36AL				■	■	■
GT-DE(B,S)-45-20L	20.0	2250	E(B,S)45AL				■	■	■
GT-DE(B,S)-60-20L	20.0	3000	E(B,S)60AL				■	■	■
GT-DE(B,S)-06-22	22.0	270	E(B,S)06AP	■	■	■			
GT-DE(B,S)-10-22(L)	22.0	450	E(B,S)10AP(L)	■	■	■	■	■	
GT-DE(B)-12-22	22.0	540	E(B)12AP	■	■				
GT-DE(B)-16-22	22.0	720	E(B)16AP	■	■				
GT-DE(B,S)-20-22	22.0	910	E(B,S)20AP	■	■	■			
GT-DE(B)-22-22	22.0	1000	E(B)22AP	■	■				
GT-DB(S)-30-22L	22.0	1360	B(S)30AL					■	■
GT-DE(B,S)-36-22L	22.0	1640	E(B,S)36AL				■	■	■
GT-DE(B,S)-45-22L	22.0	2010	E(B,S)45AL				■	■	■
GT-DE(B,S)-60-22L	22.0	2730	E(B,S)60AL				■	■	■
GT-DE(B,S)-06-24	24.0	250	E(B,S)06AP	■	■	■			
GT-3T41A-24-350	24.0	350	EI-41	■	■		■	■	
GT-3T48A-24-400	24.0	400	EI-48	■	■		■	■	
GT-DE(B,S)-10-24(L)	24.0	420	E(B,S)10AP(L)	■	■	■	■	■	
GT-3T48A-24-500	24.0	500	EI-48	■	■		■	■	
GT-DE(B)-12-24	24.0	500	E(B)12AP	■	■				
GT-DE(B)-16-24	24.0	670	E(B)16AP	■	■				
GT-DE(B,S)-20-24	24.0	830	E(B,S)20AP	■	■	■			
GT-DE(B)-22-24	24.0	920	E(B)22AP	■	■				
GT-DE(B,S)-30-24L	24.0	1250	E(B,S)30AL				■	■	■
GT-DE(B,S)-36-24L	24.0	1500	E(B,S)36AL				■	■	■
GT-DE(B,S)-45-24L	24.0	1870	E(B,S)45AL				■	■	■
GT-DE(B,S)-60-24L	24.0	2500	E(B,S)60AL				■	■	■
GT-DE(B,S)-105-24L	24.0	4380	E(B,S)105AL				■	■	■
GT-DE-120-24L	24.0	5000	E120AL				■		

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**AC Output, Wall Plug-In and DeskTop, Class 2 Transformer**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



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FOR OUTDOOR TYPES SEE  
AC/AC WEATHERPROOF ADAPTORS

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	EURO. WALL PLUG (E)	U.K. WALL PLUG (B)	SAA WALL PLUG (S)	DESKTOP EURO	DESKTOP U.K.	DESKTOP SAA
GT-DE(B,S)-150-24L	24.0	6250	E(B,S)150AL				■	■	■
GT-DE(B)-22-36	36.0	610	E(B)22AP	■	■				
GT-DE(B)-45-36L	36.0	1250	E(B)45AL				■	■	



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**DC Output, Wall Plug-In and DeskTop, Class I and II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**General Specifications:**

**Input Voltage/ Frequency:**

120VAC+/-10%/ 60Hz

**Output Voltage Tolerance:**

+/-5% at full load

**Protection:**

Primary Current (2)/ Thermal (1) Fuses

**Configuration:**

Step Down Line Transformer with Rectifier-Capacitor Filter, North America Wall Plug-in or DeskTop Dual Cord In/Out

**Operating Temperature:**

0° to 40° C

**Humidity:**

0%-90% R.H., non-condensing

**Storage Temperature:**

-20° to 70° C

**Dielectric Strength:**

4000VAC pri-sec 1500VAC pri & sec-ground

**Spacing:**

8.0mm primary-secondary

**Leakage and Patient Auxiliary Current:**

Less than 0.100mA

**Enclosure:**

Black Polycarbonate, UL94V-0

**Cooling:**

Thermal Convection, no-vents

**Cords:**

Output: Standard, 6ft. 2 conductor, 24-18AWG;  
Input: 2 or 3 conductor, 18AWG SPT-1 (DeskTop only)  
For other output cords, please refer to Output Plug/Cord Options

**Safety:**

**Medical Models Class I and Class II (BF Type):**

UR to UL2601-1, C-UR to CSA 22.2 # 601, UL File #E172861,  
TüV TO EN60601, TüV E20 MARK B-02-02-41405-019

**EMI:**

FCC Class B



CBSA IEC UL FC

**Notes:**

- 1) For unit size and output cords, please refer to Adaptors Output Plug/Cord Options
- \*2) Within each Model, Output Current may vary from 50mA to Max. Load specified, in 50mA increments, preserving Output Voltage +/-5% Tolerance
- \*\*3) Options for specifying Output Voltage Deviation from Standard Model add Suffix -x.x to Model No.

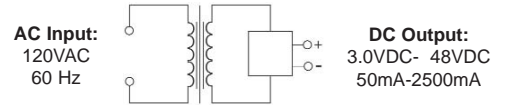
**Unit Size Codes:**

- 1) EI 35,41,48,57: Transformer Core Size
- 2) Input Blade Style:  
01: N.A. 2 Prong (Class II)  
Options:  
02: N.A. 3 Prong (Class I)

**Options:**

- 1) Primary Earth ground pin and secondary/shield ground
- 2) Custom output cords, connectors and shielding arrangements
- 3) Other outputs or custom design per customer specifications

**Schematic Diagram:**



**Model Selection Road Map Example:**

1. Required: Medical UL2601 9VDC / 700mA, N.A. "2" Prong Plug, Wall Plug-In, Output Plug Center Positive 2.5mm ID Barrel.
2. Selection table presented in increasing output voltage order; page 2: locate 9V with higher incremental current: GTM348-9-1000
3. Model Selected: GTM348-9-700 w/ case Size EI-48; Please refer to Adaptors Case Style.
4. Output Plug/Cord selected "L-"; Please refer to Adaptors Plug/Cord Options

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GTM335-3-600	3.0	600	EI-35
GTM341-3-1300	3.0	1300	EI-41
GTM348-3-1500	3.0	1500	EI-48
GTM357-3-2500	3.0	2500	EI-57
GTM348-3.3-1500	3.3	1500	EI-48
GTM335-4-600	4.0	600	EI-35

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GTM341-4-1000	4.0	1000	EI-41
GTM348-4-1300	4.0	1300	EI-48
GTM348-4-1500	4.0	1500	EI-48
GTM357-4-2300	4.0	2300	EI-57
GTM348-4.5-1500	4.5	1500	EI-48
GTM335-5-500	5.0	500	EI-35

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REGISTERED**DC Output, Wall Plug-In and DeskTop, Class I and II**Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GTM341-5-1000	5.0	1000	EI-41
GTM348-5-1200	5.0	1200	EI-48
GTM348-5-1400	5.0	1400	EI-48
GTM357-5-2300	5.0	2300	EI-57
GTM335-6-500	6.0	500	EI-35
GTM341-6-900	6.0	900	EI-41
GTM348-6-1200	6.0	1200	EI-48
GTM348-6-1400	6.0	1400	EI-48
GTM357-6-2200	6.0	2200	EI-57
GTM335-7-400	7.0	400	EI-35
GTM341-7-800	7.0	800	EI-41
GTM348-7-1100	7.0	1100	EI-48
GTM348-7-1300	7.0	1300	EI-48
GTM357-7-2000	7.0	2000	EI-57
GTM335-7.5-400	7.5	400	EI-35
GTM341-7.5-800	7.5	800	EI-41
GTM348-7.5-900	7.5	900	EI-48
GTM348-7.5-1100	7.5	1100	EI-48
GTM348-7.5-1300	7.5	1300	EI-48
GTM357-7.5-2000	7.5	2000	EI-57
GTM335-9-300	9.0	300	EI-35
GTM341-9-650	9.0	650	EI-41
GTM348-9-1000	9.0	1000	EI-48
GTM348-9-1200	9.0	1200	EI-48
GTM357-9-1800	9.0	1800	EI-57
GTM348-10-700	10.0	700	EI-48
GTM348-10-900	10.0	900	EI-48
GTM348-10-1100	10.0	1100	EI-48
GTM357-10-1500	10.0	1500	EI-57
GTM348-11-1000	11.0	1000	EI-48
GTM335-12-250	12.0	250	EI-35
GTM341-12-600	12.0	600	EI-41
GTM348-12-800	12.0	800	EI-48
GTM348-12-1200	12.0	1200	EI-48
GTM357-12-1400	12.0	1400	EI-57
GTM357-12-1500	12.0	1500	EI-57
GTM348-13.5-850	13.5	850	EI-48
GTM348-13.5-1000	13.5	1000	EI-48
GTM335-14-200	14.0	200	EI-35
GTM341-14-450	14.0	450	EI-41
GTM348-14-500	14.0	500	EI-48
GTM348-14-600	14.0	600	EI-48

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GTM348-14-800	14.0	800	EI-48
GTM357-14-1300	14.0	1300	EI-57
GTM335-15-200	15.0	200	EI-35
GTM341-15-450	15.0	450	EI-41
GTM348-15-800	15.0	800	EI-48
GTM348-15-900	15.0	900	EI-48
GTM357-15-1300	15.0	1300	EI-57
GTM348-16-900	16.0	900	EI-48
GTM357-16.5-1300	16.5	1300	EI-57
GTM335-18-150	18.0	150	EI-35
GTM341-18-350	18.0	350	EI-41
GTM348-18-350	18.0	350	EI-48
GTM348-18-450	18.0	450	EI-48
GTM348-18-500	18.0	500	EI-48
GTM348-18-550	18.0	550	EI-48
GTM348-18-700	18.0	700	EI-48
GTM357-18-1100	18.0	1100	EI-57
GTM348-20-500	20.0	500	EI-48
GTM357-20-1000	20.0	1000	EI-57
GTM335-21-150	21.0	150	EI-35
GTM341-21-300	21.0	300	EI-41
GTM348-21-300	21.0	300	EI-48
GTM348-21-400	21.0	400	EI-48
GTM348-21-500	21.0	500	EI-48
GTM348-21-600	21.0	600	EI-48
GTM357-21-1000	21.0	1000	EI-57
GTM335-24-100	24.0	100	EI-35
GTM341-24-300	24.0	300	EI-41
GTM348-24-350	24.0	350	EI-48
GTM348-24-450	24.0	450	EI-48
GTM348-24-550	24.0	550	EI-48
GTM357-24-800	24.0	800	EI-57
GTM348-28-450	28.0	450	EI-48
GTM357-28-700	28.0	700	EI-57
GTM348-36-300	36.0	300	EI-48
GTM357-36-500	36.0	500	EI-57
GTM348-48-200	48.0	200	EI-48
GTM357-48-350	48.0	350	EI-57



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ISO 9001:2000  
REGISTERED



**DC Output, Wall Plug-In Class 2 Transformer**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**General Specifications:**

**Input Voltage/ Frequency:**

100VAC +/-10%/50Hz-60Hz

**Input Capacity:**

Exceeding 20VA, and less than or equal to 30VA

**Output Voltage Tolerance:**

+/-5% at full load

**Protection:**

(2) Primary Current Fuses + (1) Thermal Fuse

**Configuration:**

Step Down Line Transformer with Rectifier-Capacitor Filter, JAPAN Wall Plug-in

**Operating Temperature:**

0° to 40° C

**Humidity:**

0%-90% R.H., non-condensing

**Storage Temperature:**

-20° to 70° C

**Dielectric Strength:**

4000VAC pri-sec  
1500VAC pri & sec-ground

**Spacing:**

8.0mm primary-secondary

**Enclosure:**

Black Polycarbonate, UL94V-0

**Cooling:**

Thermal Convection, no-vents

**Cords:**

Output: Standard, 6ft. 2 conductor, 24-18AWG;  
Input: 2 or 3 conductor, 18AWG SPT-1 (DeskTop only)  
For other output cords, please refer to Output Plug/Cord Options

**Safety:** Approved to PSE 60950 for Class I and Class II (BF Type)

**EMI:**

FCC Class B

**Notes:**

- 1) For unit size and output cords, please refer to Adaptors Output Plug/Cord Options
- 2) For output blade options please refer to International Adaptor Input Blade Options
- \*3) Within each Model, Output Current may vary in 50mA increments, preserving Output Voltage +/-5% Tolerance, while the Input Capacity is larger than 20VA and less or equal with 30VA
- \*\*4) Options for specifying Output Voltage Deviation from Standard Model add Suffix -x.x to Model No.

**Unit Size Codes:**

EI 35,41,48,57 Transformer Core Size:

**Input Blade Style:**

01: JAPAN 2 Prong

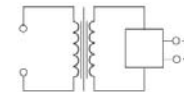
02: JAPAN 3 Prong

**Options:**

- 1) Primary earth ground pin and secondary/shield ground
- 2) Custom output cords, connectors and shielding arrangements
- 3) Other outputs or custom design per customer specifications

**Schematic Diagram:**

**AC Input:**  
100VAC  
50/60Hz



**DC Output:**  
3.0VDC-28VDC  
50mA-2500mA

**Model Selection Road Map Example:**

1. Required: DENAN-JAPAN 9VDC / 700mA, N.A. "2" Prong Plug, Wall Plug-In, Output Plug Center Positive 2.5mm ID Barrel.
2. Selection table presented in increasing output voltage order; page 2: locate 9V with higher incremental current: GTM3J48-9-1000
3. Model Selected:GTM3J48-9-700 w/ case Size EI48; Please refer to Adaptors Case Style.
4. Output Plug/Cord selected "B-"; Please refer to Adaptors Plug/Cord Options

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GTM3J41-3-1300	3.0	1300	EI-41
GTM3J48-3-1500	3.0	1500	EI-48
GTM3J57-3-2500	3.0	2500	EI-57
GTM3J48-3.3-1500	3.3	1500	EI-48
GTM3J41-4-1300	4.0	1300	EI-41
GTM3J48-4-1000	4.0	1000	EI-48

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GTM3J48-4-1500	4.0	1500	EI-48
GTM3J57-4-2300	4.0	2300	EI-57
GTM3J48-4.5-1500	4.5	1500	EI-48
GTM3J41-5-1000	5.0	1000	EI-41
GTM3J48-5-1200	5.0	1200	EI-48
GTM3J48-5-1400	5.0	1400	EI-48

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Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GTM3J57-5-2300	5.0	2300	EI-57
GTM3J41-6-900	6.0	900	EI-41
GTM3J48-6-1200	6.0	1200	EI-48
GTM3J48-6-1400	6.0	1400	EI-48
GTM3J57-6-2200	6.0	2200	EI-57
GTM3J41-7-800	7.0	800	EI-41
GTM3J48-7-1100	7.0	1100	EI-48
GTM3J48-7-1300	7.0	1300	EI-48
GTM3J57-7-2000	7.0	2000	EI-57
GTM3J41-7.5-800	7.5	800	EI-41
GTM3J48-7.5-900	7.5	900	EI-48
GTM3J48-7.5-1100	7.5	1100	EI-48
GTM3J48-7.5-1300	7.5	1300	EI-48
GTM3J57-7.5-2000	9.0	2000	EI-57
GTM3J41-9-650	9.0	650	EI-41
GTM3J48-9-1000	9.0	1000	EI-48
GTM3J48-9-1200	9.0	1200	EI-48
GTM3J57-9-1800	10.0	1800	EI-57
GTM3J48-10-700	10.0	700	EI-48
GTM3J48-10-900	10.0	900	EI-48
GTM3J48-10-1100	10.0	1100	EI-48
GTM3J57-10-1500	10.0	1500	EI-57
GTM3J48-11-1000	11.0	1000	EI-48
GTM3J41-12-600	12.0	600	EI-41
GTM3J48-12-800	12.0	800	EI-48
GTM3J48-12-1200	12.0	1200	EI-48A
GTM3J57-12-1400	12.0	1400	EI-57
GTM3J57-12-1500	12.0	1500	EI-57
GTM3J48-13.5-850	13.5	850	EI-48
GTM3J48-13.5-1000	13.5	1000	EI-48
GTM3J41-14-450	14.0	450	EI-41
GTM3J48-14-500	14.0	500	EI-48
GTM3J48-14-600	14.0	600	EI-48
GTM3J48-14-800	14.0	800	EI-48
GTM3J57-14-1300	14.0	1300	EI-57
GTM3J41-15-450	15.0	450	EI-41
GTM3J48-15-800	15.0	800	EI-48
GTM3J48-15-900	15.0	900	EI-48
GTM3J57-15-1300	15.0	1300	EI-57
GTM3J48-16-900	16.0	900	EI-48
GTM3J57-16.5-1300	16.5	1300	EI-57
GTM3J41-18-350	18.0	350	EI-41

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE
GTM3J48-18-350	18.0	350	EI-48
GTM3J48-18-450	18.0	450	EI-48
GTM3J48-18-500	18.0	500	EI-48
GTM3J48-18-550	18.0	550	EI-48
GTM3J48-18-700	18.0	700	EI-48
GTM3J57-18-1100	18.0	1100	EI-57
GTM3J48-20-500	20.0	500	EI-48
GTM3J57-20-1000	20.0	1000	EI-57
GTM3J41-21-300	21.0	300	EI-41
GTM3J48-21-300	21.0	300	EI-48
GTM3J48-21-400	21.0	400	EI-48
GTM3J48-21-500	21.0	500	EI-48
GTM3J48-21-600	21.0	600	EI-48
GTM3J57-21-1000	21.0	1000	EI-57
GTM3J41-24-300	24.0	300	EI-41
GTM3J48-24-350	24.0	350	EI-48
GTM3J48-24-450	24.0	450	EI-48
GTM3J48-24-550	24.0	550	EI-48
GTM3J57-24-800	24.0	800	EI-57
GTM3J48-28-450	28.0	450	EI-48
GTM3J57-28-700	28.0	700	EI-57



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ISO 9001:2000  
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**DC Output, Wall Plug-In and DeskTop Class I and Class II**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**CBO** **CE**

INDOOR USE ONLY

**General Specifications:**

**Input Voltage/ Frequency:**

230VAC+/-10%/50Hz for Euro Type Models  
240VAC+/-10%/50Hz for Australia, UK Type Models

**Output Voltage Tolerance:**

+/-5% at full load

**Protection:**

(2) Primary Current Fuses + (1) Thermal Fuse

**Configuration:**

Step Down Line Transformer with Rectifier-  
Capacitor Filter, Euro./U.K./Australia  
(SAA) Type Wall Plug-in or DeskTop Dual Cord In/Out

**Operating Temperature:**

0° to 40°C

**Humidity:**

0%-90% R.H., non-condensing

**Storage Temperature:**

-20° to 70°C

**Dielectric Strength:**

4000VAC pri-sec  
1500VAC pri & sec-ground

**Spacing:**

8.0mm primary-secondary

**Leakage and Patient Auxiliary Current:**

Less than 0.100mA

**Enclosure:**

Black Polycarbonate, UL94V-0

**Cooling:**

Thermal Convection, no-vents

**Cords:**

Output: Standard, 6ft. 2 conductor, 24-18AWG;  
Input: 2 or 3 conductor, 18AWG SPT-1 (DeskTop only)  
For other output cords, please refer to Output  
Plug/Cord Options

**Safety:**

**Medical Models Class I and Class II (BF Type):**

TÜV/Bauart to EN60601, File#B-02-02-41405-019

**EMI:**

CE Compliant

**Notes:**

- 1) For unit size and output cords, please refer to Adaptors Output Plug/Cord Options
- 2) For Input Blade Options please refer to International Adaptor Input Blade Options
- \*3) Within each Model, Output Current may vary from 50mA to Max. Load specified, in 50mA increments, preserving Output Voltage +/-5% tolerance
- \*\*4) Options for specifying Output Voltage Deviation from Standard Model add Suffix -x.x to Model No.

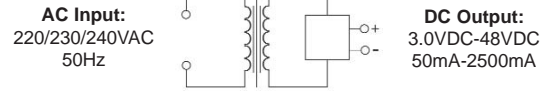
**Unit Size Codes:**

- 1) Transformer Core Size:  
EI 35,41,48,57
- 2) Input Blade Style:  
Class II: 07: Euro; 09X: U.K.; 05A: Australia  
Class I: 08: Euro 3 Prong; 09A: U.K. 3 Prong; 06A: Australia 3 Prong

**Options:**

- 1) Primary earth ground pin and secondary/shield ground
- 2) Custom output cords, connectors and shielding arrangements
- 3) Other outputs or custom design per customer specifications

**Schematic Diagrams:**



**Model Selection Road Map Example:**

1. Required: Medical EN60601 9VDC / 700mA, EURO. "2" Prong Plug, Wall Plug-In, Output Plug Center Positive 2.5mm ID Barrel.
2. Selection table presented in increasing output voltage order; page 2: locate 9V with higher incremental current:GTM3T48-9-1000D
3. Model Selected: GTM3T48-9-700D w/ case Size EI-48; Please refer to Adaptors Case Style.
4. Output Plug/Cord selected "L-"; Please refer to Adaptors Plug/Cord Options

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE	DESKTOP OPTION	EURO. WALL PLUG	U.K. WALL PLUG	SAA WALL PLUG
GTM3T35-3-600C	3.0	600	EI-35	■	■	■	■
GTM3T41-3-1300D	3.0	1300	EI-41	■	■	■	■
GTM3T48-3-1500D	3.0	1500	EI-48	■	■	■	■
GTM3T57-3-2500D	3.0	2500	EI-57	■	■	■	■
GTM3T48-3.3-1500D	3.3	1500	EI-48	■	■	■	■
GTM3T35-4-600C	4.0	600	EI-35	■	■	■	■
GTM3T41-4-1300D	4.0	1300	EI-41	■	■	■	■
GTM3T48-4-1000D	4.0	1000	EI-48	■	■	■	■
GTM3T48-4-1500D	4.0	1500	EI-48	■	■	■	■
GTM3T57-4-2300D	4.0	2300	EI-57	■	■	■	■
GTM3T48-4.5-1500D	4.5	1500	EI-48	■	■	■	■
GTM3T35-5-500C	5.0	500	EI-35	■	■	■	■
GTM3T41-5-1000D	5.0	1000	EI-41	■	■	■	■
GTM3T48-5-1200D	5.0	1200	EI-48	■	■	■	■

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ISO 9001:2000  
REGISTERED**DC Output, Wall Plug-In and DeskTop Class I and Class II**Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)**CBOCE**

INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE	DESKTOP OPTION	EURO. WALL PLUG	U.K. WALL PLUG	SAA WALL PLUG
GTM3T48-5-1400D	5.0	1400	EI-48	■	■	■	■
GTM3T57-5-2300D	5.0	2300	EI-57	■	■	■	■
GTM3T35-6-500C	6.0	500	EI-35	■	■	■	■
GTM3T41-6-900D	6.0	900	EI-41	■	■	■	■
GTM3T48-6-1200D	6.0	1200	EI-48	■	■	■	■
GTM3T48-6-1400D	6.0	1400	EI-48	■	■	■	■
GTM3T57-6-2200D	6.0	2200	EI-57	■	■	■	■
GTM3T35-7-400C	7.0	400	EI-35	■	■	■	■
GTM3T41-7-800D	7.0	800	EI-41	■	■	■	■
GTM3T48-7-1100D	7.0	1100	EI-48	■	■	■	■
GTM3T48-7-1300D	7.0	1300	EI-48	■	■	■	■
GTM3T57-7-2000D	7.0	2000	EI-57	■	■	■	■
GTM3T35-7.5-400C	7.5	400	EI-35	■	■	■	■
GTM3T41-7.5-800D	7.5	800	EI-41	■	■	■	■
GTM3T48-7.5-900D	7.5	900	EI-48	■	■	■	■
GTM3T48-7.5-1100D	7.5	1100	EI-48	■	■	■	■
GTM3T48-7.5-1300D	7.5	1300	EI-48	■	■	■	■
GTM3T57-7.5-2000D	7.5	2000	EI-57	■	■	■	■
GTM3T35-9-300C	9.0	300	EI-35	■	■	■	■
GTM3T41-9-650D	9.0	650	EI-41	■	■	■	■
GTM3T48-9-1000D	9.0	1000	EI-48	■	■	■	■
GTM3T48-9-1200D	9.0	1200	EI-48	■	■	■	■
GTM3T57-9-1800D	9.0	1800	EI-57	■	■	■	■
GTM3T48-10-700D	10.0	700	EI-48	■	■	■	■
GTM3T48-10-900D	10.0	900	EI-48	■	■	■	■
GTM3T48-10-1100D	10.0	1100	EI-48	■	■	■	■
GTM3T57-10-1500D	10.0	1500	EI-57	■	■	■	■
GTM3T48-11-1000D	11.0	1000	EI-48	■	■	■	■
GTM3T35-12-250C	12.0	250	EI-35	■	■	■	■
GTM3T41-12-600D	12.0	600	EI-41	■	■	■	■
GTM3T48-12-800D	12.0	800	EI-48	■	■	■	■
GTM3T48-12-1200D	12.0	1200	EI-48	■	■	■	■
GTM3T57-12-1400D	12.0	1400	EI-57	■	■	■	■
GTM3T57-12-1500D	12.0	1500	EI-57	■	■	■	■
GTM3T48-13.5-850D	13.5	850	EI-48	■	■	■	■
GTM3T48-13.5-1000D	13.5	1000	EI-48	■	■	■	■
GTM3T35-14-200C	14.0	200	EI-35	■	■	■	■
GTM3T41-14-450D	14.0	450	EI-41	■	■	■	■
GTM3T48-14-500D	14.0	500	EI-48	■	■	■	■
GTM3T48-14-600D	14.0	600	EI-48	■	■	■	■
GTM3T48-14-800D	14.0	800	EI-48	■	■	■	■
GTM3T57-14-1300D	14.0	1300	EI-57	■	■	■	■



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ISO 9001:2000  
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**DC Output, Wall Plug-In and DeskTop Class I and Class II**



**CBOCE**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE	DESKTOP OPTION	EURO. WALL PLUG	U.K. WALL PLUG	SAA WALL PLUG
GTM3T35-15-200C	15.0	200	EI-35	■	■	■	■
GTM3T41-15-450D	15.0	450	EI-41	■	■	■	■
GTM3T48-15-800D	15.0	800	EI-48	■	■	■	■
GTM3T48-15-900D	15.0	900	EI-48	■	■	■	■
GTM3T57-15-1300D	15.0	1300	EI-57	■	■	■	■
GTM3T48-16-900D	16.0	900	EI-48	■	■	■	■
GTM3T57-16.5-1300D	16.5	1300	EI-57	■	■	■	■
GTM3T57-17.8-1500D	17.8	1500	EI-57	■	■	■	■
GTM3T35-18-150C	18.0	150	EI-35	■	■	■	■
GTM3T41-18-350D	18.0	350	EI-41	■	■	■	■
GTM3T48-18-350C	18.0	350	EI-48	■	■	■	■
GTM3T48-18-450D	18.0	450	EI-48	■	■	■	■
GTM3T48-18-500D	18.0	500	EI-48	■	■	■	■
GTM3T48-18-550D	18.0	550	EI-48	■	■	■	■
GTM3T48-18-700D	18.0	700	EI-48	■	■	■	■
GTM3T57-18-1100D	18.0	1100	EI-57	■	■	■	■
GTM3T48-20-500D	20.0	500	EI-48	■	■	■	■
GTM3T57-20-1000D	20.0	1000	EI-57	■	■	■	■
GTM3T35-21-150C	21.0	150	EI-35	■	■	■	■
GTM3T41-21-300D	21.0	300	EI-41	■	■	■	■
GTM3T48-21-300C	21.0	300	EI-48	■	■	■	■
GTM3T48-21-400D	21.0	400	EI-48	■	■	■	■
GTM3T48-21-500D	21.0	500	EI-48	■	■	■	■
GTM3T48-21-600D	21.0	600	EI-48	■	■	■	■
GTM3T57-21-1000D	21.0	1000	EI-57	■	■	■	■
GTM3T35-24-100C	24.0	100	EI-35	■	■	■	■
GTM3T41-24-300D	24.0	300	EI-41	■	■	■	■
GTM3T48-24-350D	24.0	350	EI-48	■	■	■	■
GTM3T48-24-450D	24.0	450	EI-48	■	■	■	■
GTM3T48-24-550D	24.0	550	EI-48	■	■	■	■
GTM3T57-24-800D	24.0	800	EI-57	■	■	■	■
GTM3T48-28-450D	28.0	450	EI-48	■	■	■	■
GTM3T57-28-700D	28.0	700	EI-57	■	■	■	■
GTM3T48-36-300D	36.0	300	EI-48	■	■	■	■
GTM3T57-36-500D	36.0	500	EI-57	■	■	■	■
GTM3T48-48-200D	48.0	200	EI-48	■	■	■	■
GTM3T57-48-350D	48.0	350	EI-57	■	■	■	■

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ISO 9001:2000  
REGISTERED**AC Output, Wall Plug-In and DeskTop, Class 2 Transformer**Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

INDOOR USE ONLY

**General Specifications:****Input Voltage/ Frequency:**

120VAC+/-10%/60Hz for N.A.Type Models

**Output Voltage Tolerance:**

+/-5% at full load

**Protection:**

(2) Primary Current Fuses + (1) Thermal Fuse

**Configuration:**Step Down AC/AC Transformer  
North America Wall Plug-in or Desk-Top  
Dual Cord In/Out**Operating Temperature:**

0° to 40°C

**Humidity:**

0%-90% R.H., non-condensing

**Storage Temperature:**

-20° to 70°C

**Dielectric Strength:**

4000VAC pri-sec 1500VAC pri &amp; sec-ground

**Spacing:**

8.0mm primary-secondary

**Leakage and Patient Auxiliary Current:**

Less than 0.010mA

**Enclosure:**

Black Polycarbonate, UL94V-0

**Cooling:**

Thermal/Natural Convection

**Cords:**Output: Standard 6 ft. 2 conductor, 24-16AWG;  
For other output cords, please refer to Output Plug/Cords  
Options; 2 or 3 conductor 18AWG SPT-1 Input  
(DeskTop Dual Cord)**Safety:** Designed to meet**Medical Models Class I and Class II (BF Type):**C-UR/C-TUV-US to UL2601-1 and to CSA,  
UL22.2#601**EMI:**

FCC Class B

**Notes:**

- \*1) Within each Model, Output Current may vary from 50mA to Max. Load specified, in 50mA increments, preserving Output Voltage +/-5% Tolerance
- 2) For unit size and output cords please refer to Adaptors Output Plug/ Cord Options
- \*\*3) Options for specifying Output Voltage Deviation from Standard Model add suffix -x.x to Model No

**Case Size Codes:****GTM3: 35, 41, 48, 57, 60, 66****GTM7: A10 to A60**

Transformer Core Size

For adaptor size, please refer to Adaptors Case Styles

A: N.A. Input Blade Style

Class II: 01: USA NEMA 1-15P, 2 prongs

Class I: 02: USA NEMA 5-15P, 3 prongs

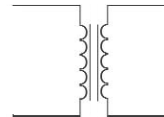
P: Wall Plug Case; L: Desk-Top Dual Cord Case

**Options:**

- 1) Primary Earth ground pin and secondary/shield ground
- 2) Custom output cords, connectors and shielding arrangements
- 3) Other outputs or custom design per customer specifications

**Schematic Diagram:**

**AC Input:**  
120/100VAC  
60Hz/50-60Hz



**AC Output:**  
2.3VAC-36VAC  
50mA-5,000mA



** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GTM341A-2.3-3000	2.3	3000	EI-41
GTM335A-3-400	3.0	400	EI-35
GTM335A-3-800	3.0	800	EI-35
GTM335A-3-900	3.0	900	EI-35
GTM7A10PA-3.5-2800	3.5	2800	A10AP
GTM335A-3.6-300	3.6	300	EI-35
GTM335A-3.6-700	3.6	700	EI-35
GTM335A-3.6-900	3.6	900	EI-35
GTM348A-4-1000	4.0	1000	EI-48
GTM335A-4.5-350	4.5	350	EI-35
GTM335A-4.5-700	4.5	700	EI-35
GTM335A-4.5-800	4.5	800	EI-35

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GTM341A-4.5-800	4.5	800	EI-41
GTM341A-4.5-950	4.5	950	EI-41
GTM341A-4.5-1000	4.5	1000	EI-41
GTM341A-4.5-1300	4.5	1300	EI-41
GTM341A-4.5-1600	4.5	1600	EI-41
GTM335A-5-300	5.0	300	EI-35
GTM335A-5-600	5.0	600	EI-35
GTM335A-5-700	5.0	700	EI-35
GTM341A-5-700	5.0	700	EI-41
GTM341A-5-900	5.0	900	EI-41
GTM341A-5-1200	5.0	1200	EI-41
GTM341A-5-1600	5.0	1600	EI-41

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
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**AC Output, Wall Plug-In and DeskTop, Class 2 Transformer**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GTM335A-6-300	6.0	300	EI-35
GTM335A-6-600	6.0	600	EI-35
GTM335A-6-700	6.0	700	EI-35
GTM341A-6-700	6.0	700	EI-41
GTM341A-6-900	6.0	900	EI-41
GTM341A-6-1200	6.0	1200	EI-41
GTM341A-6-1500	6.0	1500	EI-41
GTM348A-6-1600	6.0	1600	EI-48
GTM7A10LA-6-1670	6.0	1670	A10AL
GTM348A-6-1800	6.0	1800	EI-48
GTM348A-6-2000	6.0	2000	EI-48
GTM7A30PA-6-5000	6.0	5000	A30AP
GTM341A-7-600	7.0	600	EI-41
GTM341A-7-800	7.0	800	EI-41
GTM341A-7-1100	7.0	1100	EI-41
GTM341A-7-1400	7.0	1400	EI-41
GTM335A-7.5-250	7.5	250	EI-35
GTM335A-7.5-500	7.5	500	EI-35
GTM335A-7.5-650	7.5	650	EI-35
GTM341A-7.5-800	7.5	800	EI-41
GTM341A-7.5-1100	7.5	1100	EI-41
GTM7A10LA-7.5-1330	7.5	1330	A10AL
GTM341A-7.5-1400	7.5	1400	EI-41
GTM348A-7.5-1400	7.5	1400	EI-48
GTM348A-7.5-1700	7.5	1700	EI-48
GTM348A-7.5-1900	7.5	1900	EI-48
GTM7A30PA-7.5-4000	7.5	4000	A30AP
GTM335A-8-250	8.0	250	EI-35
GTM335A-8-500	8.0	500	EI-35
GTM335A-8-600	8.0	600	EI-35
GTM335A-9-150	9.0	150	EI-35
GTM335A-9-500	9.0	500	EI-35
GTM335A-9-600	9.0	600	EI-41
GTM341A-9-800	9.0	800	EI-41
GTM341A-9-1000	9.0	1000	EI-57
GTM7A10L-9-1110	9.0	1110	EI-48
GTM341A-9-1200	9.0	1200	EI-57
GTM341A-9-1500	9.0	1500	EI-35
GTM348A-9-1500	9.0	1500	EI-41
GTM348A-9-1800	9.0	1800	EI-48
GTM7A30P-9-3330	9.0	3330	EI-48
GTM7A40P-9-4440	9.0	4440	EI-48

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GTM341A-10-500	10.0	500	EI-48
GTM341A-10-750	10.0	750	EI-57
GTM341A-10-900	10.0	900	EI-35
GTM341A-10-1100	10.0	1100	EI-41
GTM348A-10-1100	10.0	1100	EI-48
GTM348A-10-1400	10.0	1400	EI-48
GTM348A-10-1700	10.0	1700	EI-48
GTM335A-12-200	12.0	200	EI-57
GTM335A-12-400	12.0	400	EI-48
GTM335A-12-500	12.0	500	EI-57
GTM341A-12-600	12.0	600	EI-48
GTM341A-12-800	12.0	800	EI-57
GTM7A10L-12-830	12.0	830	EI-48
GTM341A-12-900	12.0	900	EI-57
GTM341A-12-1200	12.0	1200	EI-41
GTM348A-12-1200	12.0	1200	EI-48
GTM348A-12-1500	12.0	1500	EI-48
GTM348A-12-1600	12.0	1600	EI-48
GTM7A20PA-12-1670	12.0	1670	A20AP
GTM7A24PA-12-1830	12.0	1830	A24AP
GTM7A30PA-12-2500	12.0	2500	A30AP
GTM7A35LA-12-2910	12.0	2910	A35AL
GTM7A36PA-12-3000	12.0	3000	A36AP
GTM7A40PA-12-3330	12.0	3330	A40AP
GTM7A50LA-12-4170	12.0	4170	A50AL
GTM7A60LA-12-4170	12.0	4170	A60AL
GTM7A30PA-13-2300	13.0	2300	A30AP
GTM7A40PA-13.5-2960	13.5	2960	A40AP
GTM7A30P-13.8-2170	13.8	2170	A30AP
GTM341A-14-350	14.0	350	EI-41
GTM341A-14-500	14.0	500	EI-41
GTM341A-14-700	14.0	700	EI-41
GTM7A10LA-14-710	14.0	710	A10AL
GTM341A-14-750	14.0	750	EI-41
GTM348A-14-800	14.0	800	EI-48
GTM348A-14-1100	14.0	1100	EI-48
GTM348A-14-1200	14.0	1200	EI-48
GTM357A-14-1800	14.0	1800	EI-57
GTM7A30PA-14-2140	14.0	2140	A30AP
GTM7A40PA-14-2860	14.0	2860	A40AP
GTM335A-15-150	15.0	150	EI-35
GTM335A-15-350	15.0	350	EI-35

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

ISO 9001:2000  
REGISTERED**AC Output, Wall Plug-In and DeskTop, Class 2 Transformer**Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GTM335A-15-400	15.0	400	EI-35
GTM341A-15-500	15.0	500	EI-41
GTM341A-15-650	15.0	650	EI-41
GTM7A10LA-15-670	15.0	670	A10AL
GTM341A-15-750	15.0	750	EI-41
GTM341A-15-1000	15.0	1000	EI-41
GTM348A-15-1100	15.0	1100	EI-48
GTM348A-15-1200	15.0	1200	EI-48
GTM348A-15-1500	15.0	1500	EI-48
GTM7A30PA-15-2000	15.0	2000	A30AP
GTM7A40PA-15-2860	15.0	2860	A40AP
GTM341A-16-250	16.0	250	EI-41
GTM341A-16-350	16.0	350	EI-41
GTM341A-16-375	16.0	375	EI-41
GTM341A-16-500	16.0	500	EI-41
GTM341A-16-600	16.0	600	EI-41
GTM7A10LA-16-620	16.0	620	A10AL
GTM348A-16-700	16.0	700	EI-48
GTM348A-16-1000	16.0	1000	EI-48
GTM348A-16-1100	16.0	1100	EI-48
GTM7A30PA-16-1880	16.0	1880	A30AP
GTM7A40PA-16.5-2420	16.5	2420	A40AP
GTM335A-18-150	18.0	150	EI-35
GTM335A-18-300	18.0	300	EI-35
GTM335A-18-350	18.0	350	EI-35
GTM341A-18-350	18.0	350	EI-41
GTM341A-18-500	18.0	500	EI-41
GTM341A-18-550	18.0	550	EI-41
GTM7A10LA-18-560	18.0	560	A10AL
GTM341A-18-600	18.0	600	EI-41
GTM348A-18-600	18.0	600	EI-48
GTM348A-18-800	18.0	800	EI-48
GTM348A-18-1000	18.0	1000	EI-48
GTM7A30PA-18-1670	18.0	1670	A30AP
GTM7A40PA-18-2220	18.0	2220	A40AP
GTM341A-19-300	19.0	300	EI-41
GTM341A-19-450	19.0	450	EI-41
GTM341A-19-500	19.0	500	EI-41
GTM341A-19-550	19.0	550	EI-41
GTM335A-20-200	20.0	200	EI-35
GTM7A10LA-20-500	20.0	500	A10AL
GTM7A12PA-20-600	20.0	600	A12AP

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE
GTM7A30PA-20-1500	20.0	1500	A30AP
GTM7A40PA-20-2000	20.0	2000	A40AP
GTM335A-21-100	21.0	100	EI-35
GTM335A-21-250	21.0	250	EI-35
GTM335A-21-300	21.0	300	EI-35
GTM341A-21-300	21.0	300	EI-41
GTM341A-21-400	21.0	400	EI-41
GTM341A-21-450	21.0	450	EI-41
GTM341A-21-500	21.0	500	EI-41
GTM348A-21-650	21.0	650	EI-48
GTM348A-21-850	21.0	850	EI-48
GTM7A10LA-22-450	22.0	450	A10AL
GTM7A12PA-22-540	22.0	540	A12AP
GTM7A30PA-22-1360	22.0	1360	A30AP
GTM7A33LA-22-1500	22.0	1500	A33AL
GTM7A40PA-22-1820	22.0	1820	A40AP
GTM335A-24-100	22.0	100	EI-35
GTM335A-24-150	24.0	150	EI-35
GTM335A-24-200	24.0	200	EI-35
GTM341A-24-300	24.0	300	EI-41
GTM341A-24-400	24.0	400	EI-41
GTM7A10L-24-420	24.0	420	A10AL
GTM341A-24-450	24.0	450	EI-41
GTM341A-24-500	24.0	500	EI-41
GTM348A-24-600	24.0	600	EI-48
GTM348A-24-750	24.0	750	EI-48
GTM7A20PA-24-830	24.0	830	A20AP
GTM7A24P-24-1000	24.0	1000	A24AP
GTM7A30PA-24-1250	24.0	1250	A30AP
GTM7A33LA-24-1250	24.0	1250	A33AL
GTM7A36PA-24-1500	24.0	1500	A36AP
GTM7A40PA-24-1670	24.0	1670	A40AP
GTM7A60LA-24-2500	24.0	2500	A60AL
GTM7A36PA-36-1000	24.0	1000	A36AP



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ISO 9001:2000  
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**DeskTop and Wall Plug-In Single Output Models**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

**General Specifications:**

**Input Voltage/ Frequency:**

230VAC+/-10%/50Hz  
240VAC+/-10%/50Hz

**Output Voltage Tolerance:**

+/-5% at full load

**Protection:**

(2) Primary Current Fuses + (1) Thermal Fuse

**Configuration:**

Step Down AC/AC Transformer  
Euro./U.K./Australia (SAA) Type Wall Plug-in  
or Desk-Top Dual Cord In/ Out

**Operating Temperature:**

0° to 40°C

**Humidity:**

0%-90% R.H., non-condensing

**Storage Temperature:**

-20° to 70°C

**Dielectric Strength:**

4000VAC pri-sec 2500VAC pri-ground / 500VAC  
sec-ground (option)

**Spacing:**

8.0mm primary-secondary

**Leakage and Patient Auxiliary Current:**

Less than 0.100mA

**Enclosure:**

Black Polycarbonate, UL94V-0

**Cooling:**

Thermal/Natural Convection

**Cords:**

Output: Standard 6 ft. 2 conductor, 24-16AWG;  
For other output cords, please refer to Output  
Plug/Cord Options conductor, 18AWG SPT-1 Input  
(Desk-Top Dual Cord)

**Safety:** Designed to meet

**Medical Models Class I and Class II (BF Type):**

**EMI:**

CE Compliant

**Notes:**

- \*1) Within each Model, Output Current may vary from 50mA to Max. Load specified in 50mA increments preserving Output Voltage +/- Tolerance
- \*2) For unit size and output cords please refer to Adaptors Output Plug/ Cord Options
- \*3) For International Input Blade Options please refer to International Input Configurations
- \*\*4) Options for specifying Output Voltage Deviation from Standard Model add suffix -x.x to Model No.

**Case Size Codes:**

- 1) **35,41,48 and 06A through 200A:** Transformer Core Size  
Please refer to Adaptors Case Styles  
T: Euro (-3)/U.K.(-4); A: Australia  
or  
E: Euro; B: U.K.; S: Australia  
P: Wall Plug Case; L: Dual Cord Case

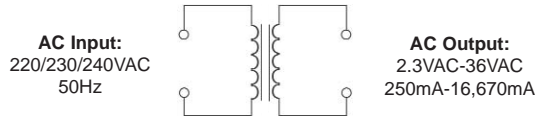
**2) Input Blade Style:**

Class II: **07:** Euro; **09A:** U.K.; **05A:** Australia  
Class I: **08:** Euro; **09C:** U.K.; **06A:** Australia

**Options:**

- 1) Primary earth ground pin and secondary/shield ground
- 2) Custom output cords, connectors and shielding arrangements
- 3) Other outputs or custom design per customer specifications

**Schematic Diagram:**



** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	EURO. PLUG (07) (08)	U.K. PLUG (09A) (09C)	SAA PLUG (05A) (06A)	EURO DUAL CORD	U.K. DUAL CORD	SAA DESKTOP
GTM3A41A-2.3-3000	2.3	3000	EI-41			■			■
GTM7E(B,S)06PA-3.5-1710	3.5	1710	E(B,S)06AP	■	■	■			
GTM7E(B,S)10P(L)A-3.5-2860	3.5	2860	E(B,S)10AP(L)	■	■	■	■	■	
GTM7E(B)12PA-3.5-3430	3.5	3430	E(B)12AP	■	■				
GTM7E(B)16PA-3.5-4570	3.5	4570	E(B)16AP	■	■				
GTM7E(B,S)20PA-3.5-5710	3.5	5710	E(B,S)20AP	■	■	■			
GTM7S30LA-3.5-8570	3.5	8570	S30AL						■
GTM7E(B,S)06PA-6-1000	6.0	1000	E(B,S)06AP	■	■	■			
GTM7E(B,S)10P(L)A-6-1670	6.0	1670	E(B,S)10AP(L)	■	■	■	■	■	
GTM7E(B,S)12PA-6-2000	6.0	2000	E(B,S)12AP	■	■				

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ISO 9001:2000  
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## DeskTop and Wall Plug-In Single Output Models

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	EURO. PLUG (07) (08)	U.K. PLUG (09A) (09C)	SAA PLUG (05A) (06A)	EURO DUAL CORD	U.K. DUAL CORD	SAA DESKTOP
GTM7E(B)16PA-6-2670	6.0	2570	E(B)16AP	■	■				
GTM7E(B,S)20PA-6-3330	6.0	3330	E(B,S)20AP	■	■	■			
GTM7E(B)22PA-6-3670	6.0	3570	E(B)22AP	■	■				
GTM7E(B,S)30LA-6-5000	6.0	5000	E(B,S)30AL				■	■	■
GTM7E(B,S)LA-6-6000	6.0	6000	E(B,S)36AL	■	■		■	■	
GTM7E(B,S)45LA-6-7500	6.0	7500	E(B,S)45AL				■	■	■
GTM7E(B,S)60LA-6-10000	6.0	10000	E(B,S)60AL				■	■	■
GTM3T35A-7-350-3(4)	7.0	350	EI-41	■	■		■	■	
GTM7E(B,S)06PA-7.5-800	7.5	800	E(B,S)06AP	■	■	■			
GTM7E(B,S)10P(L)A-7.5-1330	7.5	1330	E(B,S)10AP(L)	■	■	■	■	■	
GTM7E(B)12PA-7.5-1600	7.5	1600	E(B)12AP	■	■				
GTM7E(B)16PA-7.5-2130	7.5	2130	E(B)16AP	■	■				
GTM7E(B,S)20PA-7.5-2670	7.5	2570	E(B,S)20AP	■	■	■			
GTM7E(B)22PA-7.5-2930	7.5	2930	EI-48	■	■				
GTM7E(B,S)30LA-7.5-4000	7.5	4000	E(B,S)30AL				■	■	■
GTM7E(B,S)36LA-7.5-4800	7.5	4800	E(B,S)36AL				■	■	■
GTM7E(B,S)45LA-7.5-6000	7.5	6000	E(B,S)45AL				■	■	■
GTM7E(B,S)60LA-7.5-8000	7.5	8000	E(B,S)60AL				■	■	■
GTM3T35A-9-300-3(4)	9.0	300	EI-35	■	■				
GTM3T35A-9-350-3(4)	9.0	350	EI-35	■	■				
GTM3T41A-9-400-3(4)	9.0	400	EI-41	■	■		■	■	
GTM3T41A-9-500-3(4)	9.0	500	EI-41	■	■		■	■	
GTM3T41A-9-600-3(4)	9.0	600	EI-41	■	■		■	■	
GTM7E(B,S)06PA-9-670	9.0	670	E(B,S)06AP	■	■	■			
GTM3T41A-9-700-3(4)	9.0	700	EI-41	■	■		■	■	■
GTM3T41A-9-750-3(4)	9.0	750	EI-41	■	■		■	■	
GTM3T41A-9-780-3(4)	9.0	780	EI-41	■	■		■	■	
GTM3T48A-9-900-3(4)	9.0	900	EI-48	■	■		■	■	
GTM3T48A-9-1000-3(4)	9.0	1000	EI-48	■	■		■	■	
GTM7E(B,S)10PA-9-1110	9.0	1110	E(B,S)10AP(L)	■	■	■	■	■	
GTM3T48A-9-1200-3(4)	9.0	1200	EI-48	■	■		■	■	
GTM7E(B)12PA-9-1330	9.0	1330	E(B)12AP	■	■				
GTM7E(B)16PA-9-1780	9.0	1780	E(B)16AP	■	■				
GTM7E(B,S)20PA-9-2220	9.0	2220	E(B,S)20AP	■	■	■			
GTM7E(B,S)30LA-9-3330	9.0	3330	E(B,S)30AL				■	■	■
GTM7E(B,S)36LA-9-4000	9.0	4000	E(B,S)36AL				■	■	■
GTM7E(B,S)45LA-9-5000	9.0	5000	E(B,S)45AL				■	■	■
GTM7E(B,S)60LA-9-6670	9.0	6670	E(B,S)60AL				■	■	■
GTM7E(B)105LA-9-11670	9.0	11670	E(B)105AL				■	■	
GTM3T(A)41A-12-300-3(4)	12.0	300	EI-41	■	■	■	■	■	■
GTM3T41A-12-400-3(4)	12.0	400	EI-41	■	■		■	■	
GTM3T41A-12-500-3(4)	12.0	500	EI-41	■	■		■	■	



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**DeskTop and Wall Plug-In Single Output Models**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	EURO. PLUG (07) (08)	U.K. PLUG (09A) (09C)	SAA PLUG (05A) (06A)	EURO DUAL CORD	U.K. DUAL CORD	SAA DESKTOP
GTM7E(B,S)06PA-12-500	12.0	500	E(B,S)06AP	■	■	■			
GTM3T41A-12-600-3(4)	12.0	600	EI-41	■	■		■	■	
GTM3T48A-12-800-3(4)	12.0	800	EI-48	■	■		■	■	■
GTM7E(B,S)10P(L)-12-830	12.0	830	E(B,S)10AP(L)	■	■	■	■	■	
GTM3T48A-12-900-3(4)	12.0	900	EI-48	■	■		■	■	
GTM3T48A-12-1000-3(4)	12.0	1000	EI-48	■	■		■	■	
GTM7E(B)12PA-12-1000	12.0	1000	E(B)12AP	■	■				
GTM7E(B)16PA-12-1330	12.0	1330	E(B)16AP	■	■				
GTM3T48A-12-1500-3(4)	12.0	1500	EI-48	■	■		■	■	
GTM7E(B,S)20P(L)A-12-1670	12.0	1670	E(B,S)20AP(L)	■	■	■	■		
GTM7E(B)22PA-12-1830	12.0	1830	E(B)22AP	■	■				
GTM7E(B,S)30LA-12-2500	12.0	2500	E(B,S)30AL				■	■	■
GTM7B35PA-12-2920	12.0	2920	B35AP		■				
GTM7E(B,S)36LA-12-3000	12.0	3000	E(B,S)36AL				■	■	■
GTM7E(B,S)45LA-12-3750	12.0	3750	E(B,S)45AL				■	■	■
GTM7ELA-12-4170	12.0	4170	E52AL				■		
GTM7E(B,S)60LA-12-5000	12.0	5000	E(B,S)60AL				■	■	■
GTM7E(B,S)105LA-12-8750	12.0	8750	E(B,S)105AL				■	■	■
GTM7E120LA-12-10000	12.0	10000	E120AL				■		
GTM7E(B,S)150LA-12-12500	12.0	12500	E(B,S)150AL				■	■	■
GTM7E180LA-12-15000	12.0	1500	E180AL				■		
GTM7E200LA-12-16670	12.0	16670	E200AL				■		
GTM7E(B)10LA-14-710	14.0	710	E(B)10AL				■	■	
GTM7E(B)16PA-14-1140	14.0	1140	E(B)16AP	■	■				
GTM7E(B,S)06PA-15-400	15.0	400	E(B,S)06AP	■	■	■			
GTM7E(B,S)10P(L)A-15-670	15.0	670	E(B,S)10AP(L)	■	■	■	■	■	
GTM3T48A-15-800-3(4)	15.0	800	EI-48	■	■		■	■	■
GTM7E(B)12PA-15-800	15.0	800	E(B)12AP	■	■				
GTM7E(B)16PA-15-1070	15.0	1070	E(B)16AP	■	■				
GTM7E(B,S)20PA-15-1330	15.0	1330	E(B,S)20AP	■	■	■			
GTM7E(B)22PA-15-1470	15.0	1470	E(B)22AP	■	■				
GTM7E(B,S)30LA-15-2000	15.0	2000	E(B,S)30AL				■	■	■
GTM7E(B,S)36LA-15-2400	15.0	2400	E(B,S)36AL				■	■	■
GTM7E(B,S)45LA-15-3000	15.0	3000	E(B,S)45AL				■	■	■
GTM7E(B,S)60LA-15-4000	15.0	4000	E(B,S)60AL	■	■		■	■	■
GTM7E(B)10LA-16-620	16.0	620	E(B)10AL				■	■	
GTM3T48A-16-700-3(4)	16.0	700	EI-48	■	■		■	■	
GTM3T48A-16-800-3(4)	16.0	800	EI-48	■	■		■	■	■
GTM7E(B)16PA-16-1000	16.0	1000	E(B)16AP	■	■		■	■	■
GTM7E(B,S)06PA-18-330	18.0	330	E(B,S)06AP	■	■	■			
GTM7E(B,S)10P(L)A-18-560	18.0	560	E(B,S)10AP(L)	■	■	■	■	■	
GTM7E(B)12PA-18-670	18.0	670	E(B)12AP	■	■	■	■	■	■

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## DeskTop and Wall Plug-In Single Output Models

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	EURO. PLUG (07) (08)	U.K. PLUG (09A) (09C)	SAA PLUG (05A) (06A)	EURO DUAL CORD	U.K. DUAL CORD	SAA DESKTOP
GTM7E(B)16PA-18-890	18.0	890	E(B)16AP	■	■				
GTM7E(B,S)20PA-18-1110	18.0	1110	E(B)20AP	■	■	■			
GTM7E(B)22PA-18-1220	18.0	1220	E(B)22AP	■	■				
GTM7E(B,S)30LA-18-1670	18.0	1670	E(B,S)30AL				■	■	■
GTM7E(B,S)36LA-18-2000	18.0	2000	E(B,S)36AL				■	■	■
GTM7E(B,S)45LA-18-2500	18.0	2500	E(B,S)45AL				■	■	■
GTM7E(B,S)60LA-18-3330	18.0	3330	E(B,S)60AL				■	■	■
GTM3T41A-20-200-3(4)	20.0	200	EI-41	■	■		■	■	
GTM7E(B,S)06PA-20-300	20.0	300	E(B,S)06AP	■	■	■	■	■	
GTM7E(B,S)10P(L)A-20-500	20.0	500	E(B,S)10AP(L)	■	■	■			
GTM7E(B)12PA-20-600	20.0	600	E(B)12AP	■	■				
GTM7E(B)16PA-20-800	20.0	800	E(B)16AP	■	■				
GTM7E(B,S)20P(L)A-20-1000	20.0	1000	E(B,S)20AP(L)	■	■				
GTM7E(B)22PA-20-1100	20.0	1100	E(B)22AP	■	■				
GTM7E(B,S)30LA-20-1500	20.0	1500	E(B,S)30AL				■	■	■
GTM7E(B,S)36LA-20-1800	20.0	1800	E(B,S)36AL				■	■	■
GTM7E(B,S)45LA-20-2250	20.0	2250	E(B,S)45AL				■	■	■
GTM7E(B,S)60LA-20-3000	20.0	3000	E(B,S)60AL				■	■	■
GTM7E(B,S)06PA-22-270	22.0	270	E(B,S)06AP	■	■	■			
GTM7E(B,S)10P(L)A-22-450	22.0	450	E(B,S)10AP(L)	■	■	■	■	■	
GTM7E(B)12PA-22-540	22.0	540	E(B)12AP	■	■				
GTM7E(B)16PA-22-720	22.0	720	E(B)16AP	■	■				
GTM7E(B,S)20PA-22-910	22.0	910	E(B)20AP	■	■	■	■		
GTM7E(B)22PA-22-1000	22.0	1000	E(B)22AP	■	■				
GTM7B(S)30LA-22-1360	22.0	1360	B(S)30AL					■	■
GTM7E(B,S)36LA-22-1640	22.0	1640	E(B,S)36AL	■	■		■	■	■
GTM7E(B,S)45LA-22-2010	22.0	2010	E(B,S)06AP	■	■	■			
GTM7E(B,S)60LA-22-2730	22.0	2730	E(B,S)60AL				■	■	■
GTM7E(B,S)06PA-24-250	22.0	250	E(B,S)06AP	■	■	■			
GTM3T41A-24-350-3(4)	24.0	350	EI-41	■	■		■	■	
GTM3T48A-24-400-3(4)	24.0	400	EI-48	■	■		■	■	
GTM7E(B,S)10P(L)A-24-420	24.0	420	E(B,S)10AP(L)	■	■	■	■	■	
GTM3T48A-24-500-3(4)	24.0	500	EI-48	■	■		■	■	
GTM7E(B)12PA-24-500	24.0	500	E(B)12AP	■	■				
GTM7E(B)16PA-24-670	24.0	670	E(B)16AP	■	■				
GTM7E(B,S)20PA-24-830	24.0	830	E(B,S)20AP	■	■	■			
GTM7E(B)22PA-24-920	24.0	920	E(B)22AP	■	■				
GTM7E(B,S)30LA-24-1250	24.0	1250	E(B,S)30AL				■	■	■
GTM7E(B,S)36LA-24-1500	24.0	1500	E(B,S)36AL				■	■	■
GTM7E(B,S)45LA-24-1870	24.0	1870	E(B,S)45AL				■	■	■
GTM7E(B,S)60LA-24-2500	24.0	2500	E(B,S)60AL				■	■	■
GTM7E(B,S)105LA-24-4380	24.0	4380	E(B,S)105AL				■	■	■



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**DeskTop and Wall Plug-In Single Output Models**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	EURO. PLUG (07) (08)	U.K. PLUG (09A) (09C)	SAA PLUG (05A) (06A)	EURO DUAL CORD	U.K. DUAL CORD	SAA DESKTOP
GTM7E120LA-24-5000	24.0	5000	E120AL				■		
GTM7E(B,S)150LA-24-6250	24.0	6250	E(B,S)150AL				■	■	■
GTM7E(B)22PA-36-610	36.0	610	E(B)22AP	■	■				
GTM7E(B)45LA-36-1250	36.0	1250	E(B)45AL				■	■	



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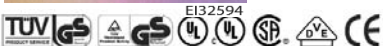


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Single and Multiple Outputs, Wall Plug-In and DeskTop Models

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

**General Specifications:**

**Input Voltage/ Frequency:**

120VAC+/-10%/60Hz for N.A. Type Models.  
230VAC+/-10%/50Hz For European Type Models.

**Output Voltage Regulation (Line/Load):**

+/-5%, measured at output connector.

**Output Ripple (Peak to Peak):**

50mVmax. @ Full Load, Low Line.

**Over-Current/Short-Circuit Protection:**

Foldback, Automatic Recovery.

**Other Protections:**

Input Fusing, Thermal Shutdown.

**Configuration:**

Step Down Line Transformer followed by Rectifier-Capacitor Filter and Linear Regulator.

**Operating Temperature:**

0° to 40°C

**Humidity:**

0%-90% R.H., non-condensing

**Storage Temperature:**

-20° to 70°C

**Dielectric Strength:**

1) N.A.: 1500VAC pri.-sec./ pri.- gnd.  
2) Euro.: 2500VAC pri.-sec./ pri.-gnd.

**Enclosure:**

Polycarbonate, UL94V-0

**Cooling:**

Natural Convection, vented case

**Cords:**

Output: Standard 6 ft. multi-conductor, 24-18AWG;  
Input: 2 or 3 conductor, 18AWG SPT-1 (DeskTop only) For other output cords, please refer to Output Plug/Cord options.

**Safety:**

1) N.A.: UL1310, UL1012, CSA22.2-223, E132594  
2) Euro.: TÜV/VDE to EN60950, TÜV Subscriber 41405

**EMI:**

1) N.A.: FCC Class B.  
2) Euro.: CE Compliant

**Notes:**

- 1) For unit size and output cords please refer to Adaptors Case Style and Adaptors Output Plug/Cord Options.
- 2) For Input Blade Options please refer to International Adaptors Input Blade Options
- \*3) Within each Model, Output Current may vary from 50mA to max load specified in 50mA increments preserving output voltage +/-5% Regulation
- \*\*4) Optional for specifying Output Voltage Deviation from Standard Model add Suffix -x.x to Model No.
- \*\*\*5) Up to 5 W Output Power: All Models Listed in the AC/DC Adaptors US and European. Rating Tables have the provision to be converted into Linear Regulated Output by adding the suffix "R" to the Model Number

**Unit Size Codes:**

- 1) EI-41,48,57: Transformer Core Size
- 2) Input Blade Style: 01: NA; 07: Euro.

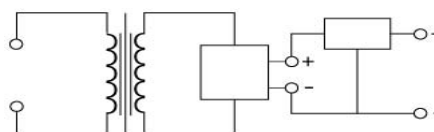
or

A, B, C, D, E and F: Wall Plug and Desktop Case Style.

**Options:**

- 1) Primary Earth ground PIN and secondary/shield ground.
- 2) Custom output cords, connectors and shielding arrangements.
- 3) Other outputs or custom design per customer specifications

**Schematic Diagram:**



**AC Input:**

117/120VAC, 60Hz  
220VAC, 50Hz

**DC Output:**

single: 3.0VDC-24VDC  
250mA-16,670mA  
multiple: 5V±12V (Table)



**Single Output Models**

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE	N.A. WALL PLUG	N.A. DESKTOP	EURO. WALL PLUG	EURO DESKTOP
GT-3T41-5-400R	5.0	400	EI-41		■	■	■
GT-3T48-5-1000R	5.0	1000	EI-48	■			■
GT-8515ST-1	5.0	1200	EI-57		■		
GT-8515ST	5.0	1500	EI-57		■		■
GT-3T48-5.2-650R	5.2	650	EI-48			■	■
GT-348-5.2-650R	5.2	650	EI-48	■	■		
GT-341-5.5-250R	5.5	250	EI-41	■	■		
GT-341-5.9-400R	5.9	400	EI-41	■	■		
GT-341-7.2-300R	7.2	300	EI-41	■	■		
GT-348-12-600R	12.0	600	EI-48		■		
GT-357-12-1000R	12.0	1000	EI-57		■		
GT-81212A	12.0	1200	B:120-76-65mm	■			
GT-85121V-6	12.0	1200	E:120-79-58mm		■		
GT-357-13.9-850R	13.9	850	EI-57	■	■		

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Single and Multiple Outputs, Wall Plug-In and DeskTop Models

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



INDOOR USE ONLY

Multiple Output Models

** MODEL NUMBER	OUTPUT (VDC)	* MAX CURRENT (MA)	CASE SIZE	N.A. PLUG	N.A. DESKTOP	EURO. DESKTOP
GT-85122RW-2	+5.0	500	EI-41	■		
	+12.0	100				
	-12.0	100				
GT-8512N-7	+5.0	500	E:120-79-75mm		■	
	+12.0	700				
GT-85122RW-1	+5.0	630	A:85-68-56mm	■		
	+12.0	100				
	-12.0	100				
GT-85128-1	+5.0	700	F:95-72-57.5mm		■	
	+12.0	500				
GT-85128UP	+5.0	700	F:95-72-57.5mm			■
	+12.0	500				
GT-85122RW	+5.0	800	A:85-68-56mm	■		
	+12.0	100				
	-12.0	100				
GT-85129-3	+5.0	900	C:120-76-65mm	■		
	+12.0	300				
	-12.0	100				
GT-85129C	+5.0	1000	C/D:120-76-65mm		■	
	+12.0	500				
GT-85129UPX	+5.0	1000	D:120-76-65mm			■
	+12.0	500				
GT-85129-2	+5.0	1000	C/D:120-76-65mm		■	
	+12.0	200				
	-12.0	200				
GT-85129UP	+5.0	1000	D:120-76-65mm			■
	+12.0	200				
	-2.0	200				
GT-85129-1	+5.0	1000	C/D:120-76-65mm		■	
	+12.0	250				
	-12.0	250				
GT-85124	+5.0	1200	C/D:120-76-65mm			■
	+12.0	200				
	-12.0	200				

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
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AC Output, Wall Plug-In and DeskTop, Outdoor Use

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**General Specifications:**

**Input Voltage/ Frequency:**

120VAC+/-10%/ 60Hz for N.A.Types

**Input Voltage/Frequency:**

230VAC+/-10%/50Hz for Euro. Types

240VAC+/-10%/50Hz for Australia Types

**Output Voltage Tolerance:**

+/-5% at full load

**Protection:**

Primary Thermal Fuse

**Configuration:**

Step Down AC/AC Transformer

N.A./Euro./Australia (SAA) Type Wall Plug-in or Desk-Top Dual

Cord In/ Out

**Operating Temperature:**

0° to 40°C

**Humidity:**

0%-90% R.H., non-condensing

**Storage Temperature:**

-20° to 70°C

**Dielectric Strength:**

**N.A.Models:**

1500VAC pri-sec;

1500VAC pri-ground/ 500VAC sec-ground (option)

**Euro./Australia Models:**

2500VAC pri-sec;

2500VAC pri-ground/ 500VAC sec-ground (option)

**Enclosure:**

Black Polycarbonate, UL94V-0

**Cooling:**

Thermal Convection, no-vents

**Cords:**

Output: Standard 6 ft. multi-conductor, 24-18AWG;

Input: 2 or 3 conductor, 18AWG SPT-1 Input (Desktop only).

For other output cords, please refer to Output Plug/Cord options.

**Safety/EMI:**

**N.A. Models:**

UL1310, UL1838 UL1012/FCC Class B, E2268 43

**Euro./Australia Models:**

TUV/GS to EN60950; AS/NZS 3108/CE Compliant

**Notes:**

- 1) For unit size and output cords please refer to Adaptors Case Style and Adaptors Output Plug/Cord Options
- 2) For Input Blade Options please refer to International-Adaptor Input Blade Options

**Unit Size Codes:**

**Input Blade Style:**

A: N.A.; E: Euro.; S: Australia

**Output Power (w):**

06W through 200W

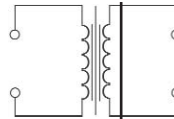
P: Wall Plug Case; L: Dual Cord (Tabletop) Case

**Options:**

- 1) Primary Earth ground PIN and secondary/shield ground.
- 2) Custom output cords, connectors and shielding arrangements.
- 3) Other outputs or custom design per customer specifications

**Schematic Diagram:**

**AC Input:**  
120VAC,60Hz  
or  
230/240VAC,50Hz



**AC Output:**  
5VAC-24VAC  
50mA-12,500mA



** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	N.A. DESKTOP	EURO. WALL PLUG	EURO. DESKTOP	U.K. DESKTOP	SAA DESKTOP
GT-DE-06-3.5WP(L)	3.5	1710	E06WP(L)		■	■	■	
GT-DE-10.5-3.5WP(L)	3.5	3000	E10.5WP(L)		■	■	■	
GT-DE-21-3.5WP(L)	3.5	6000	E21WP(L)		■	■		
GT-DE-06-06WP(L)	6.0	1000	E06WP(L)		■	■	■	
GT-DE-10.5-06WP(L)	6.0	1750	E10.5WP(L)		■	■	■	
GT-DE-22-06WP(L)	6.0	3670	E21WP(L)				■	■
GT-DE(S)-30-06WL	6.0	5000	E(S)30WL			■	■	■
GT-DE(S)-36-06WL	6.0	6000	E(S)36WL			■	■	■
GT-DE(S)-45-06WL	6.0	7500	E(S)45WL			■	■	■
GT-DE(S)-60-06WL	6.0	10000	E(S)60WL			■	■	■
GT-DE(S)-06-7.5WL	7.5	800	E06WP(L)		■	■	■	
GT-DE-10.5-7.5WP(L)	7.5	1400	E10.5WP(L)		■	■	■	
GT-DE-22-7.5WP(L)	7.5	2930	E21WP(L)				■	■
GT-DE(S)-30-7.5WL	7.5	4000	E(S)30WL			■	■	■
GT-DE(S)-36-7.5WL	7.5	4800	E(S)36WL			■	■	■
GT-DE(S)-45-7.5WL	7.5	6000	E(S)45WL			■	■	■
GT-DE(S)-60-7.5WL	7.5	8000	E(S)60WL			■	■	■
GT-DE-06-09WP(L)	9.0	670	E(S)06WL		■	■	■	

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AC Output, Wall Plug-In and DeskTop, Outdoor Use

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	N.A. DESKTOP	EURO. WALL PLUG	EURO. DESKTOP	U.K. DESKTOP	SAA DESKTOP
GT-DE-10.5-09WP(L)	9.0	1170	E10.5WP(L)		■	■	■	
GT-DE-21-09WP(L)	9.0	2330	E21WP(L)				■	■
GT-DE(S)-30-09WL	9.0	3330	E(S)30WL			■	■	■
GT-DE(S)-36-09L	9.0	4000	E(S)36WL			■	■	■
GT-DE(S)-45-09L	9.0	5000	E(S)45WL			■	■	■
GT-DE(S)-60-09L	9.0	6670	E(S)60WL			■	■	
GT-DE-06-12WP(L)	12.0	500	E06WP(L)		■	■	■	
GT-DE-10-12WL	12.0	830	E10WL			■	■	
GT-DE-10.5-12WP(L)	12.0	880	E10.5WP(L)		■	■		
GT-DA-12-12WL	12.0	1000	A12WL	■				
GT-DE-21-12WP(L)	12.0	1750	E21WP(L)		■	■		
GT-DA-22-12WL	12.0	1830	A22WL	■				
GT-DA(E,S)-30-12WL	12.0	2500	A(E,S)30WL	■		■	■	■
GT-DA(E,S)-36-12WL	12.0	3000	A(E,S)36WL	■		■	■	■
GT-DE(S)-45-12WL	12.0	3750	E(S)45WL			■	■	■
GT-DA(E,S)-60-12WL	12.0	5000	A(E,S)60WL	■		■	■	■
GT-DA-100-12WL	12.0	8330	A100WL	■				
GT-DE(S)-105-12WL	12.0	8750	E(S)105WL			■	■	■
GT-DE-120-12WL	12.0	10000	E120WL			■		
GT-DA(E,S)-150-12WL	12.0	12500	A(E,S)150WL	■		■	■	■
GT-DE(B)-180-12WL	12.0	15000	E180WL			■	■	
GT-DE(B)-200-12WL	12.0	16670	E200WL			■	■	
GT-DE-06-15WP(L)	15.0	400	E06WP(L)		■	■	■	
GT-DE-10.5-15WP(L)	15.0	700	E10.5WP(L)		■	■	■	
GT-DE-21-15WP(L)	15.0	1400	E21WP(L)		■	■		
GT-DE(S)-30-15WL	15.0	2000	E(S)30WL			■	■	■
GT-DE(S)-36-15WL	15.0	2400	E(S)36WL			■	■	■
GT-DE(S)-45-15WL	15.0	3000	E(S)45WL			■	■	■
GT-DE(S)-60-15WL	15.0	4000	E(S)60WL			■	■	■
GT-DE-06-18P(L)	18.0	330	E0 6WP(L)		■	■	■	
GT-DE-10.5-18P(L)	18.0	580	E10.5WP(L)		■	■	■	
GT-DE-21-18P(L)	18.0	1170	E21WP(L)		■	■		
GT-DE(S)-30-18L	18.0	1670	E(S)30WL			■	■	■
GT-DE(S)-36-18L	18.0	2000	E(S)36WL			■	■	■
GT-DE(S)-45-18L	18.0	2500	E(S)45WL			■	■	■
GT-DE(S)-60-18L	18.0	3330	E(S)60WL			■	■	■
GT-DE-06-20WP(L)	20.0	300	E06WP(L)		■	■	■	
GT-DE-10.5-20WP(L)	20.0	530	E10.5WP(L)		■	■	■	
GT-DE-21-20WP(L)	20.0	1050	E21WP(L)		■	■		
GT-DE(S)-30-20WL	20.0	1500	E(S)30WL			■	■	■
GT-DE(S)-36-20WL	20.0	1800	E(S)36WL			■	■	■
GT-DE(S)-45-20WL	20.0	2250	E(S)45WL			■	■	■

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.





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AC Output, Wall Plug-In and DeskTop, Outdoor Use

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



** MODEL NUMBER	OUTPUT (VAC)	* MAX CURRENT (MA)	CASE SIZE	N.A. DESKTOP	EURO. WALL PLUG	EURO. DESKTOP	U.K. DESKTOP	SAA DESKTOP
GT-DE(S)-60-20WL	20.0	3000	E(S)60WL			■	■	■
GT-DE-06-22WP(L)	22.0	270	E06WP(L)		■	■	■	
GT-DE-10.5-22WP(L)	22.0	470	E10.5WP(L)		■	■	■	
GT-DE-21-22WP(L)	22.0	950	E21WP(L)			■	■	■
GT-DE(S)-30-22WL	22.0	1360	E(S)30WL			■	■	■
GT-DE(S)-36-22WL	22.0	1640	E(S)36WL			■	■	■
GT-DE(S)-45-22WL	22.0	2050	E(S)45WL			■	■	■
GT-DE(S)-60-22WL	22.0	2730	E(S)60WL			■	■	■
GT-DE-06-24WP(L)	24.0	250	E06WP(L)		■	■	■	
GT-DE-10.5-24WP(L)	24.0	440	E10.5WP(L)		■	■	■	
GT-DE-21-24WP(L)	24.0	870	E21WP(L)		■	■		
GT-DE(S)-30-24WL	24.0	1250	E(S)30WL			■	■	■
GT-DE(S)-36-24WL	24.0	1500	E(S)36WL			■	■	■
GT-DE(S)-45-24WL	24.0	1880	E(S)45WL			■	■	■
GT-DA(E,S)-60-24WL	24.0	2500	A(E,S)60WL	■		■		■
GT-DA-100-24WL	24.0	4170	A100WL	■				
GT-DE(S)-105-24WL	24.0	4380	E(S)105WL			■	■	■
GT-DA(E,S)-150-24WL	24.0	6250	A(E,S)150WL	■		■	■	■
GT-DE(B)-180-24WL	24.0	7500	E180WL			■	■	
GT-DE(B)-200-24WL	24.0	8340	E200WL			■	■	
GT-DE(B)-180-36WL	36.0	5000	E180WL			■	■	
GT-DE(B)-200-36WL	36.0	5660	E200WL			■	■	



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**Wall Plug-In and Desktop Battery Charges**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



**General Specifications:**

**Input Voltage/Frequency:**  
120VAC+/-10%/60Hz for N.A. Types  
100VAC+/-10%/50-60Hz for Japan Types  
230VAC+/-10%/50Hz for Euro. Types  
240VAC+/-10%/50Hz for U.K. Types

**Charger Method:**  
Current Limiting Resistance

**Battery Type:**  
Lead-Acid; Ni-Cd; Ni-MH; Polymer Li-Ion

**Direct Plug-In Battery Size:**  
AAA; AA; C; D

**Charger Interconnect:**  
Alligator Clips; Cigarette Lighter

**Standard Charge:**  
14 Hours at C/10

**Protection:**  
Primary Thermal Fuse; Short Circuit and  
Overload Protection /Inherently LPS

**Configuration:**  
Step Down Line Transformer with Rectifier-Capacitor Filter  
DC Power Source with Series Current Limiting Resistor.

**Operating Temperature:**  
0° to 40° C

**Humidity:**  
0%-90% R.H., non-condensing

**Storage Temperature:**  
-20° to 70° C

**Dielectric Strength:**  
**N.A./Japan Models:**  
1500VAC pri-sec/ pri-ground

**Euro./U.K. Models:**  
2500VAC pri-sec/ pri-ground

**Enclosure:**  
Black Polycarbonate, UL94V-0

**Cooling:**  
Thermal Convection, no-vents

**Cords:**

Output: Standard 6 ft. 2 conductor, 24-16AWG;  
Input: 2 or 3 conductor, 18AWG SPT-1 Input Desk-Top (DeskTop only)  
For other Output Cords, please refer to Output Plug/Cord options

**Safety/EMI:**

**N.A./Japan Models:**  
UL1310, CSA22.2, FCC Class B

**Euro./U.K. Models:**  
TUV/GS EN60950, CE Compliant

**Toy Transformer:**  
UL697, CSA 22.2 No.173

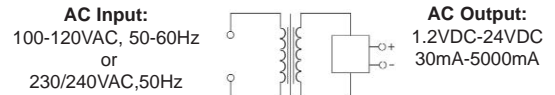
**Notes:**

- 1) For unit size and output cords please refer to Adaptors Case Style Spec and Adaptors output Plug/Cord Options
- 2) For Input Blade Options please refer to International-Adaptor Input Blade Options
- \*3) Within each Model, Charge Current may vary from 50mA to Max. Load specified in 50mA increments; Factory adjust.
- \*\*4) Option for specifying Open-Circuit Max. Output Voltage Deviation from Standard Model add Suffix -x.x to Model No.
- 5) All Models listed in the AC/DC Adaptors U.S. and Euro. Rating Tables have the provision to be converted into Battery Charger by adding the Suffix "BC" to Part No.
- 6) For Battery and Battery Pack Selection please refer to: Ni-Cd, Ni-MH and Polymer Li-Ion Batteries and Battery Packs GlobTek Catalog (Gray)and Product Data Sheets

**Options:**

- 1) Primary Earth ground PIN and secondary/shield ground.
- 2) Custom output cords, connectors and shielding arrangements.
- 3) Other outputs or custom design per customer specifications

**Schematic Diagram:**



**Direct Plug-In Battery Chargers: Ni-Cd and Ni-MH Battery**

Note: Plug-In Chargers are ordered by Model Number, only

** BATTERY CHARGER MODEL NUMBER	MAX. NO. OF BATTERIES	NOMINAL VOLTAGE (V)	NOMINAL CAPACITY (MAH)	* STANDARD CHARGE (MA)	CHARGING TIME (HOURS)	OPEN CIRCUIT VOLTAGE (V)	DISCHARGE CUT-OFF VOLTAGE (V)	N.A. WALL PLUG	EU. WALL PLUG	U.K. WALL PLUG
GT-DBCA-4A	(4) AAA	1.2	300Ni-Cd 550Ni-MH	30Ni-Cd 55Ni-MH	1414	1.51.5	11	■		
GT-DBCA-4AD	(4) AA	1.2	900Ni-Cd 1500Ni-MH	90Ni-Cd 150Ni-MH	1414	1.51.5	11	■		
GT-DBCA-01A	(2) C	1.2	2500Ni-Cd	250Ni-Cd	1414	1.51.5	11	■		
GT-DBCA-01AD	(1) D	1.2	4500Ni-Cd	450Ni-Cd	1414	1.51.5	11	■		
GT-DBCE(B)-4A	(4) AAA	1.2	300Ni-Cd 550Ni-MH	30Ni-Cd 55Ni-MH	1414	1.51.5	11		■	■
GT-DBCE(B)-4AD	(4) AA	1.2	900Ni-Cd 1500Ni-MH	90Ni-Cd 150Ni-MH	1414	1.51.5	11		■	■



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Wall Plug-In and Desktop Battery Charges

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)



Battery Packs: Lead Acid, Ni-Cd and Ni-MH DeskTop Chargers

Note: Plug-In Chargers are ordered by Model Number, only

** BATTERY CHARGER MODEL NUMBER	BATTERY PACK NOMINAL VOLTAGE (V)	* MAX CHARGING CURRENT (MA)	NOMINAL CAPACITY (AH)	TERMINALS (+/-) CIGARETTE LIGHTER	TERMINALS (+/-) ALLIGATOR CLIPS	N.A. DESK-TOP	EURO. DESK-TOP	U.K. DESK-TOP	JAPAN DESK-TOP
GT-DBCA(E,B)-57-06600	6	600	5-9	■		■	■	■	
GT-DBCA(E,B)-57-06800	6	800	6-11	■		■	■	■	
GT-DBCA(E,B)-57-061000	6	1,000	8-14	■		■	■	■	
GT-DBCA(E,B)-57-12600	12	600	5-9	■		■	■	■	
GT-DBCA(E,B)-57-12800	12	800	6-11	■		■	■	■	
GT-DBCA(J)-66-121200	12	1,200	10-17	■	■	■			■
GT-DBCA(J)-66-121500	12	1,500	10-17	■	■	■			■
GT-DBCA(J)-66-121700	12	1,700	10-17	■	■	■			■
GT-DBCE-122A	12	2,000	24-38		■		■		
GT-DBCE-123A	12	3,000	24-38		■		■		
GT-DBCE-124A	12	4,000	38-50		■		■		
GT-DBCE-125A	12	5,000	50-75		■		■		
GT-DBCA(E,B)-57-24400	24	400	3-6	■		■	■	■	
GT-DBCA(E,B)-57-24500	24	500	4-7	■		■	■	■	
GT-DBCA(E,B)-57-24600	24	600	5-9	■		■	■	■	
GT-DBCA-66-24800	24	800	6-12		■	■			



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**PCB Mount, Low-Profile PCB Mount, Quick Connect, Lead Wire**

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

**General Specifications:**

**Input Voltage/Frequency:**

**Single Primary:**  
120VAC/60Hz for N.A. Models  
230VAC/50Hz for Euro. Models

**Dual Primary:**

120/240VAC, 50-60Hz Models  
\* For 115VAC, 115/230VAC, add an X after Model No.

**Output Voltage Tolerance:**

+/-5% at full load

**Protection (Optional Built-In):**

- .) Thermal Cut-Off or Resettable Thermal
- .) Slow-Blow Fuse
- .) Transient Surge Suppressor, MOV

**Configuration:**

Step Down AC/AC Power Transformer, EI Lamination

**Insulation Systems, UL recognized:**

130°C, Class B Standard,  
Class A, F, H, S: Optional

**Operating Temperature:**

0°C-40°C, Standard

**Temperature Rise:**

45°C typ. at full load

**Humidity:**

0%-95% R.H., non-condensing

**Dielectric Strength:**

2500VAC pri-sec/ pri-core

**Mechanical:**

**Mounting Frame:**

- .) Channel-Frame Options: TCH01/02/03/04
- .) Open-Frame Options: TCH05/06/07/08

**Terminals & Connectors:**

- .) Strip & Tin; Lug; Spade; Faston
- .) Connectors: Plug-In; Screw Mount

For Mechanical Details, please see: Transformer Brackets and Output Terminals/Connectors Options

**Safety:**

**UL Standards:**

UL506, UL1411, UL1585

**CSA Standards:**

C22.2 NO.66, 827B

**VDE Standards:**

0550, 0551

**DIN Standards:**

EN60742, EN61558

**Options:**

- 1) Primary/Secondary Shield ground/ Faraday Shield
- 2) Custom Output terminations, connectors and shielding arrangements
- 3) Other outputs or custom design per customer specifications

**Model Number Code:**

1) **GT-E:** Internal Code

**P,U,T,L:**

**P:** PCB Mount; **U:** Low Profile PCB Mount  
**T:** Quick Connect; **L:** Lead Wire

**01 through 100:** Output Power (VA)

**-1,2,3:**

**-1:** Single Pri 120VAC; **-2:** Dual Pri 120/240VAC

**-3:** Single Pri 240VAC

**-010 through -240:** Dual Sec in Series Output Voltage 10VAC through 240VAC

**-510 through -620:** Center Tap Sec Output Voltage 10VAC through 120VAC

or

2) **GT-SUC:** Internal Code, Dual Pri 115/230VAC

**-010 through -036:** Dual Sec in 10VAC through 36VAC

**025 through 156:** Dual Sec in Series Output Current 0.25ARMS through 1.56ARMS

or

3) **GT-D:** Internal Code

**A,E,042:**

**A:** Single Pri 120VAC; **E:** Single Pri 230VAC

**042:** Dual Pri 120/240VAC

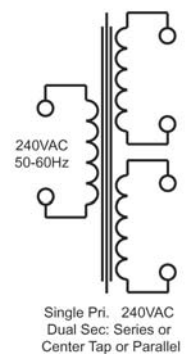
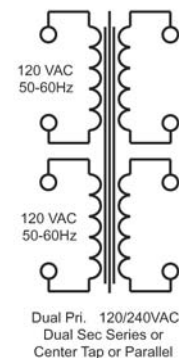
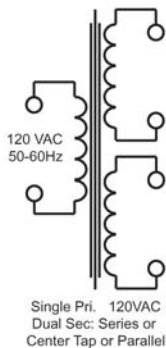
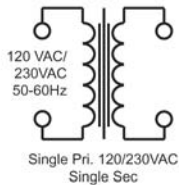
**-06 through -180:** Output Power (VA)

**-06 through -24:** Single Sec Output Voltage 6VAC through 24VAC

**Notes:**

- 1) For Transformer Size, please refer to Mechanical Outline Drawings
- 2) Optional for specifying Output Voltage Deviation from Standard Model add Suffix **-x.x** to Model No.

**Schematic Diagrams:**



\*Note: For 115VAC Single Pri, 115/230VAC Dual Pri; add an X after Model No.

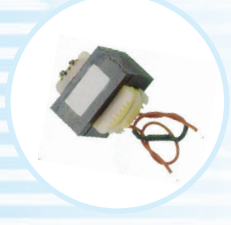
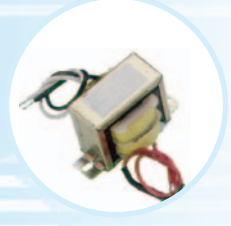


ISO 9001:2000  
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PCB Mount, Low-Profile PCB Mount, Quick Connect, Lead Wire

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

MODEL NUMBER	OUTPUT (VAC)	CURRENT (A)	UNIT SIZE (MM) (LxWxH)	SINGLE PRI N.A.	SINGLE PRI EURO.	DUAL PRI	SINGLE SEC	DUAL SEC	CENTER TAP	PCB MOUNT	PCB MOUNT (LOW PROFILE)	QUICK TERM.	LEAD WIRE
GT-EP01-1(2)-010	(2)5V/(1)10V	0.22A/0.11A	35-29-24	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9010025	(2)5V/(1)10V	0.50A/0.25A	41-33-29	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU02-2-010	(2)5V/(1)10V	0.50A/0.25A	38-48-16	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9010050	(2)5V/(1)10V	1.0A/0.5A	41-33-35	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EP06-1(2)-010	(2)5V/(1)10V	1.20A/0.60A	42-34-34	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU06-2-010	(2)5V/(1)10V	1.20A/0.60A	38-48-21	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9010100	(2)5V/(1)10V	2.0A/1.0A	48-40-35	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EP12-1(2)-010	(2)5V/(1)10V	2.40A/1.20A	48-40-37	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU12-2-010	(2)5V/(1)10V	2.40A/1.20A	51-64-27	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9010200	(2)5V/(1)10V	4.0A/2.0A	57-48-41	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9010300	(2)5V/(1)10V	6.0A/3.0A	67-56-40	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9010560	(2)5V/(1)10V	11.2A/5.6A	76-64-46	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE(042)-06-06	6.0	1.0	45-41-18	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-10-06	6.0	1.6	45-41-34	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-20-06	6.0	3.3	52-48-40	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-36-06	6.0	6.0	57-55-48	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-45-06	6.0	7.5	57-55-48	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-60-06	6.0	10.0	66-65-55	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EP01-1(2)-012	(2)6.3V/(1)12.6V	0.18A/0.09A	35-29-24	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9012020	(2)6.3V/(1)12.6V	0.40A/0.20A	41-33-29	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU02-2-012	(2)6.3V/(1)12.6V	0.40A/0.20A	38-48-16	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9012040	(2)6.3V/(1)12.6V	0.8A/0.4A	41-33-35	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EP06-1(2)-012	(2)6.3V/(1)12.6V	1.00A/0.50A	42-34-34	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU06-2-012	(2)6.3V/(1)12.6V	0.90A/0.45A	38-48-21	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9012080	(2)6.3V/(1)12.6V	1.6A/0.8A	48-40-35	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EP12-1(2)-012	(2)6.3V/(1)12.6V	2.0A/1.0A	48-40-37	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU12-2-012	(2)6.3V/(1)12.6V	1.80A/0.90A	51-64-27	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9012160	(2)6.3V/(1)12.6V	3.20A/1.60A	57-48-41	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9012240	(2)6.3V/(1)12.6V	4.8A/2.4A	67-56-40	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9012440	(2)6.3V/(1)12.6V	8.8A/4.4A	76-64-46	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-D042-7.2-6.6	6.6	1.1	48-40-16	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-06-7.5	7.5	0.8	45-41-18	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-10-7.5	7.5	1.3	45-41-34	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-20-7.5	7.5	2.6	52-48-40	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-36-7.5	7.5	4.8	57-55-48	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-45-7.5	7.5	6.0	57-55-48	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-60-7.5	7.5	8.0	66-65-55	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EP01-1(2)-016	(2)8V/(1)16V	0.14A/0.07A	35-29-24	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9016015	(2)8V/(1)16V	0.30A/0.15A	41-33-29	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU02-2-016	(2)8V/(1)16V	0.30A/0.15A	38-48-16	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪



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ISO 9001:2000  
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POWER TRANSFORMERS, 1VA TO 180VA, FOR NORTH AMERICA, EUROPE

PCB Mount, Low-Profile PCB Mount, Quick Connect, Lead Wire

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

MODEL NUMBER	OUTPUT (VAC)	CURRENT (A)	UNIT SIZE (MM) (LxWxH)	SINGLE PRI N.A.	SINGLE PRI EURO.	DUAL PRI	SINGLE SEC	DUAL SEC	CENTER TAP	PCB MOUNT	PCB MOUNT (LOW PROFILE)	QUICK TERM.	LEAD WIRE
GT-9016031	(2)8V/(1)16V	0.62A/0.31A	41-33-35			■	■	■					
GT-EP06-1(2)-016	(2)8V/(1)16V	0.80A/0.40A	42-34-34	■		■	■	■					
GT-EU06-2-016	(2)8V/(1)16V	0.70A/0.35A	38-48-21			■	■	■				■	
GT-9016062	(2)8V/(1)16V	1.25A/0.62A	48-40-35			■	■	■		■			
GT-EP12-1(2)-016	(2)8V/(1)16V	1.6A/0.8A	48-40-37	■		■	■	■					
GT-EU12-2-016	(2)8V/(1)16V	1.4A/0.7A	51-64-27			■	■	■				■	
GT9016125	(2)8V/(1)16V	2.5A/1.25A	57-48-41			■	■	■		■			
GT-9016190	(2)8V/(1)16V	3.8A/1.9A	67-56-40			■	■	■		■			
GT-9016350	(2)8V/(1)16V	7.0A/3.5A	76-64-46			■	■	■		■			
GT-D042-04-8.4	8.4	0.48	41-38-17			■	■	■					■
GT-DE-06-09	9.0	0.67	45-41-18		■		■	■					■
GT-DE-10-09	9.0	1.1	45-41-34		■		■	■					■
GT-DE-20-09	9.0	2.2	52-48-40		■		■	■					■
GT-DE-36-09	9.0	4.0	57-55-48		■		■	■					■
GT-DE-45-09	9.0	5.0	57-55-48		■		■	■					■
GT-DE-60-09	9.0	6.6	66-65-55		■		■	■					■
GT-DE-105-09	9.0	11.6	86-72-62		■		■	■					■
GT-EP01-1(2)-020	(2)10V/(1)20V	0.11A/0.055A	35-29-24	■		■	■	■		■			
GT-9020012	(2)10V/(1)20V	0.24A/0.12A	41-33-29			■	■	■		■			
GT-EU02-2-020	(2)10V/(1)20V	0.25A/0.125A	38-48-16			■	■	■				■	
GT-9020025	(2)10V/(1)20V	0.5A/0.25A	41-33-35			■	■	■		■			
GT-EP06-1(2)-020	(2)10V/(1)20V	0.60A/0.30A	42-34-34	■		■	■	■		■			
GT-EU06-2-020	(2)10V/(1)20V	0.60A/0.30A	38-48-21			■	■	■				■	
GT-ET06-1(2,3)-510	10VCT	0.6	43-33-35	■	■	■	■	■		■		■	
GT-9020050	(2)10V/(1)20V	1.0A/0.5A	48-40-35			■	■	■		■			
GT-EP12-1(2)-020	(2)10V/(1)20V	1.2A/0.6A	48-40-37	■		■	■	■		■			
GT-EU12-2-020	(2)10V/(1)20V	1.2A/0.6A	51-64-27			■	■	■				■	
GT-ET(L)12-1(2,3)-510	10VCT	1.2	50-39-42	■	■	■	■	■		■		■	■
GT-9020100	(2)10V/(1)20V	2.0A/1.0A	57-48-41			■	■	■		■			
GT-9020150	(2)10V/(1)20V	3.0A/1.5A	67-56-40			■	■	■		■			
GT-ET(L)30-1(2,3)-510	10VCT	3.0	59-45-49	■	■	■	■	■		■		■	■
GT-9020280	(2)10V/(1)20V	5.6A/2.8A	76-64-46			■	■	■		■			
GT-ET(L)56-1(2,3)-510	10VCT	5.6	69-48-57	■	■	■	■	■		■		■	■
GT-ET(L)100-1(2,3)-510	10VCT	10.0	78-57-65	■	■	■	■	■		■		■	■
GT-EP01-1(2)-024	(2)12V/(1)24V	0.09A/0.045A	39-29-24	■		■	■	■		■			
GT-9024010	(2)12V/(1)24V	0.2A/0.1A	41-33-29			■	■	■		■			
GT-EU02-2-024	(2)12V/(1)24V	0.20A/0.10A	38-48-16			■	■	■				■	
GT-9024021	(2)12V/(1)24V	0.42A/0.21A	41-33-35			■	■	■		■			
GT-EP06-1(2)-024	(2)12V/(1)24V	0.50A/0.25A	42-34-34	■		■	■	■		■			
GT-EU06-2-024	(2)12V/(1)24V	0.50A/0.25A	38-48-21			■	■	■				■	

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.

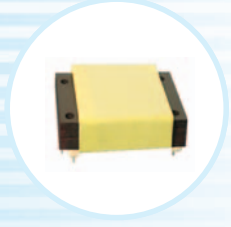
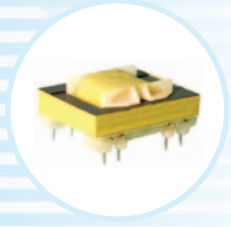
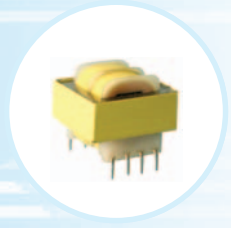
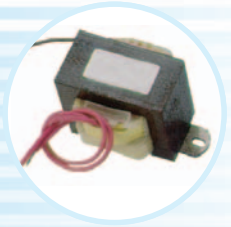


ISO 9001:2000  
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PCB Mount, Low-Profile PCB Mount, Quick Connect, Lead Wire

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

MODEL NUMBER	OUTPUT (VAC)	CURRENT (A)	UNITSIZE (MM) (LxWxH)	SINGLE PRI N.A.	SINGLE PRI EURO.	DUAL PRI	SINGLE SEC	DUAL SEC	CENTER TAP	PCB MOUNT	PCB MOUNT (LOW PROFILE)	QUICK TERM.	LEAD WIRE
GT-DE-06-12	12.0	0.5	45-41-18	▪			▪						▪
GT-DA(E)-10-12	12.0	0.83	45-41-34	▪	▪		▪						▪
GT-9024042	(2)12V/(1)24V	0.84A/0.42A	48-40-35			▪		▪		▪			
GT-EP12-1(2)-024	(2)12V/(1)24V	1.0A/0.5A	48-40-37	▪		▪		▪		▪			
GT-EU12-2-024	(2)12V/(1)24V	1.0A/0.5A	51-64-27			▪		▪			▪		
GT-DA(E)-20-12	12.0	1.6	52-48-40		▪		▪						▪
GT-9024083	(2)12V/(1)24V	1.66A/0.83A	57-48-41			▪		▪		▪			
GT-DA(E)-21-12	12.0	1.8	57-50-48	▪	▪		▪						▪
GT-9024125	(2)12V/(1)24V	2.5A/1.25A	67-56-40			▪		▪		▪			
GT-DA(E)-36-12	12.0	3.0	57-55-48	▪	▪		▪						▪
GT-DE-45-12	12.0	3.75	57-55-48		▪		▪						▪
GT-DA(E)-52-12	10V/12V	3.5A/4.0A	66-65-55	▪	▪			▪					▪
GT-9024233	(2)12V/(1)24V	4.66A/2.33A	76-64-46			▪		▪		▪			
GT-DA(E)-60-12	12.0	5.0	66-65-55	▪	▪		▪						▪
GT-DE-105-12	12.0	8.75	86-72-62		▪		▪						▪
GT-DE-120-12	12.0	10.0	86-72-62		▪		▪						▪
GT-DE-150-12	12.0	12.5	86-74-72		▪		▪						▪
GT-DE-180-12	12.0	15.0	96-86-73		▪		▪						▪
GT-ET06-1(2,3)-512	12.6	0.50	43-33-35	▪	▪	▪			▪			▪	
GT-ET(L)12-1(2,3)-512	12.6	1.0	50-39-42	▪	▪	▪			▪			▪	▪
GT-ET(L)30-1(2,3)-512	12.6	2.50	59-45-49	▪	▪	▪			▪			▪	▪
GT-ET(L)56-1(2,3)-512	12.6	4.45	69-48-57	▪	▪	▪			▪			▪	▪
GT-ET(L)100-1(2,3)-512	12.6	8.0	78-57-65	▪	▪	▪			▪			▪	▪
GT-EP01-1(2)-028	(2)14V/(1)28V	0.08A/0.04A	35-29-24			▪		▪		▪			
GT-9028009	(2)14V/(1)28V	0.18A/0.09A	41-33-29			▪		▪		▪			
GT-9028018	(2)14V/(1)28V	0.36A/0.18A	41-33-35			▪		▪		▪			
GT-EP06-1(2)-028	(2)14V/(1)28V	0.40A/0.20A	42-34-34	▪		▪		▪		▪			
GT-9028036	(2)14V/(1)28V	0.72A/0.36A	48-40-35			▪		▪		▪			
GT-EP12-1(2)-028	(2)14V/(1)28V	0.84A/0.42A	48-40-37	▪		▪		▪		▪			
GT-9028072	(2)14V/(1)28V	1.44A/0.72A	57-48-41			▪		▪		▪			
GT-9028106	(2)14V/(1)28V	2.21A/1.06A	67-56-40			▪		▪		▪			
GT-9028200	(2)14V/(1)28V	4.0A/2.0A	76-64-46			▪		▪		▪			
GT-EU02-2-030	(2)15V/(1)30V	0.17A/0.085A	38-48-16			▪		▪			▪		
GT-EU06-2-030	(2)15V/(1)30V	0.40A/0.20A	38-48-21			▪		▪			▪		
GT-DE-06-15	15.0	0.4	45-41-18		▪		▪						▪
GT-DE-10-15	15.0	0.67	45-41-34		▪		▪						▪
GT-EU12-2-030	(2)15V/(1)30V	0.80A/0.40A	51-64-27			▪		▪			▪		
GT-DE-20-15	15.0	1.3	52-48-40		▪		▪						▪
GT-DE-36-15	15.0	2.4	57-55-48		▪		▪						▪
GT-DE-45-15	15.0	3.0	57-55-48		▪		▪						▪



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



ISO 9001:2000  
REGISTERED

POWER TRANSFORMERS, 1VA TO 180VA, FOR NORTH AMERICA, EUROPE

PCB Mount, Low-Profile PCB Mount, Quick Connect, Lead Wire

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

MODEL NUMBER	OUTPUT (VAC)	CURRENT (A)	UNIT SIZE (MM) (LxWxH)	SINGLE PRI N.A.	SINGLE PRI EURO.	DUAL PRI	SINGLE SEC	DUAL SEC	CENTER TAP	PCB MOUNT	PCB MOUNT (LOW PROFILE)	QUICK TERM.	LEAD WIRE
GT-DE-60-15	15.0	4.0	66-65-55	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-105-15	15.0	7.0	86-72-62	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-ET06-1(2,3)-516	16VCT	0.40	43-33-35	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-ET(L)12-1(2,3)-516	16VCT	0.80	50-39-42	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-ET(L)30-1(2,3)-516	16VCT	2.0	59-45-49	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-ET(L)56-1(2,3)-516	16VCT	3.5	69-48-57	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-ET(L)100-1(2,3)-516	16VCT	6.25	78-57-65	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU02-2-034	(2)17V/(1)34V	0.15A/0.075A	38-48-16	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU06-2-034	(2)17V/(1)34V	0.34A/0.17A	38-48-21	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU12-2-034	(2)17V/(1)34V	0.68A/0.34A	51-64-27	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EP01-1(2)-036	(2)18V/(1)36V	0.06A/0.03A	35-29-24	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9036014	(2)18V/(1)36V	0.14A/0.07A	41-33-29	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-06-18	18.0	0.33	45-41-18	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9036014	(2)18V/(1)36V	0.28A/0.14A	41-33-35	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EP06-1(2)-036	(2)18V/(1)36V	0.34A/0.17A	42-34-34	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-10-18	18.0	0.55	45-41-34	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9036028	(2)18V/(1)36V	0.56A/0.28A	48-40-35	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EP12-1(2)-036	(2)18V/(1)36V	0.70A/0.35A	48-40-37	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9036056	(2)18V/(1)36V	1.12A/0.56A	57-48-41	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-20-18	18.0	1.1	52-48-40	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9036082	(2)18V/(1)36V	1.64A/0.82A	67-56-40	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-36-18	18.0	2.0	57-55-48	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-45-18	18.0	2.5	57-55-48	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-9036156	(2)18V/(1)36V	3.12A/1.56A	76-64-46	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-60-18	18.0	3.3	66-65-55	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-105-18	18.0	5.8	86-72-62	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU02-2-040	(2)20V/(1)40V	0.12A/0.06A	38-48-16	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU06-2-040	(2)20V/(1)40V	0.30A/0.15A	38-48-21	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-06-20	20.0	0.30	45-41-18	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-ET06-1(2,3)-520	20VCT	0.30	43-33-35	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-10-20	20.0	0.50	45-41-34	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-EU12-2-040	(2)20V/(1)40V	0.60A/0.30A	51-64-27	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-ET(L)12-1(2,3)-520	20VCT	0.60	50-39-42	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-20-20	20.0	1.0	52-48-40	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-ET(L)30-1(2,3)-520	20VCT	1.50	59-45-49	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-36-20	20.0	1.80	57-55-48	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-45-20	20.0	2.25	57-55-48	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-ET(L)56-1(2,3)-520	20VCT	2.80	69-48-57	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-DE-60-20	20.0	3.0	66-65-55	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪
GT-ET(L)100-1(2,3)-520	20VCT	5.00	78-57-65	▪	▪	▪	▪	▪	▪	▪	▪	▪	▪

SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



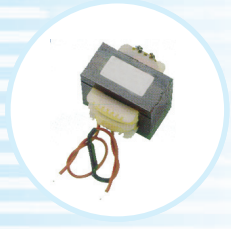
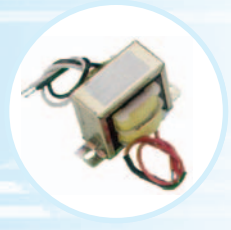


ISO 9001:2000  
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PCB Mount, Low-Profile PCB Mount, Quick Connect, Lead Wire

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

MODEL NUMBER	OUTPUT (VAC)	CURRENT (A)	UNITSIZE (MM) (LxWxH)	SINGLE PRI N.A.	SINGLE PRI EURO.	DUAL PRI	SINGLE SEC	DUAL SEC	CENTER TAP	PCB MOUNT	PCB MOUNT (LOW PROFILE)	QUICK TERM.	LEAD WIRE
GT-DE-105-20	20.0	5.25	86-72-62	▪			▪						▪
GT-DE-06-22	22.0	0.27	45-41-18		▪		▪						▪
GT-DE-10-22	22.0	0.45	45-41-34		▪		▪						▪
GT-DE-20-22	22.0	0.90	52-48-40		▪		▪						▪
GT-DE-36-22	22.0	1.60	57-55-48		▪		▪						▪
GT-DE-45-22	22.0	2.0	57-55-48		▪		▪						▪
GT-DE-60-22	22.0	2.7	66-65-55		▪		▪						▪
GT-DE-105-22	22.0	4.77	86-72-62		▪		▪						▪
GT-EP01-1(2)-048	(2)24V/(1)48V	0.046A/0.023A	35-29-24	▪		▪		▪		▪			
GT-EP02-1(2)-048	(2)24V/(1)48V	0.10A/0.05A	35-29-30	▪		▪		▪		▪			
GT-EP06-1(2)-048	(2)24V/(1)48V	0.25A/0.125A	42-34-34	▪		▪		▪		▪			
GT-ET06-1(2,3)-524	24VCT	0.25	43-33-35	▪	▪	▪			▪				▪
GT-DE-06-24	24.0	0.25	45-41-18		▪		▪						▪
GT-DA(E)-10-24	24.0	0.4	45-41-34	▪	▪		▪						▪
GT-EP12-1(2)-048	(2)24V/(1)48V	0.50A/0.25A	48-40-37	▪		▪		▪		▪			
GT-ET(L)12-1(2,3)-524	24VCT	0.50	50-39-42	▪	▪	▪			▪				▪
GT-EP20-1(2)-048	(2)24V/(1)48V	0.80A/0.40A	58-48-37	▪		▪		▪		▪			
GT-DA(E)-20-24	24.0	0.80	52-48-40	▪	▪		▪						▪
GT-ET(L)30-1(2,3)-524	24VCT	1.25	59-45-49	▪	▪	▪			▪				▪
GT-DA(E)-36-24	24.0	1.50	57-55-48	▪	▪		▪						▪
GT-DE-45-24	24.0	1.80	57-55-48		▪		▪						▪
GT-ET(L)56-1(2,3)-524	24VCT	2.40	69-48-57	▪	▪	▪			▪				▪
GT-DA(E)-60-24	24.0	2.50	66-65-55	▪	▪		▪						▪
GT-ET(L)100-1(2,3)-524	24VCT	4.00	78-57-65	▪	▪	▪			▪				▪
GT-DE-105-24	24.0	4.30	86-72-62		▪		▪						▪
GT-DE-120-24	24.0	5.0	86-72-62		▪		▪						▪
GT-DE-150-24	24.0	6.25	86-74-72		▪		▪						▪
GT-EP01-1(2)-056	(2)28V/(1)56V	0.04A/0.02A	35-29-24	▪		▪		▪		▪			
GT-EP02-1(2)-056	(2)28V/(1)56V	0.09A/0.045A	35-29-30	▪		▪		▪		▪			
GT-EU02-2-056	(2)28V/(1)56V	0.09A/0.045A	38-48-16			▪		▪			▪		
GT-EP06-1(2)-056	(2)28V/(1)56V	0.22A/0.11A	42-34-34	▪		▪		▪		▪			
GT-EU06-2-056	(2)28V/(1)56V	0.20A/0.10A	38-48-21			▪		▪			▪		
GT-ET06-1(2,3)-528	28VCT	0.20	43-33-35	▪	▪	▪			▪				▪
GT-EP12-1(2)-056	(2)28V/(1)56V	0.44A/0.22A	48-40-37	▪		▪		▪		▪			
GT-EU12-2-056	(2)28V/(1)56V	0.40A/0.20A	51-64-27			▪		▪			▪		
GT-ET(L)12-1(2,3)-528	28VCT	0.42	50-39-42	▪	▪	▪			▪				▪
GT-EP20-1(2)-056	(2)28V/(1)56V	0.70A/0.35A	58-48-37	▪		▪		▪		▪			
GT-ET(L)30-1(2,3)-528	28VCT	1.10	59-45-49	▪	▪	▪			▪				▪
GT-ET(L)56-1(2,3)-528	28VCT	2.00	69-48-57	▪	▪	▪			▪				▪
GT-ET(L)100-1(2,3)-528	28VCT	3.60	78-57-65	▪	▪	▪			▪				▪



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



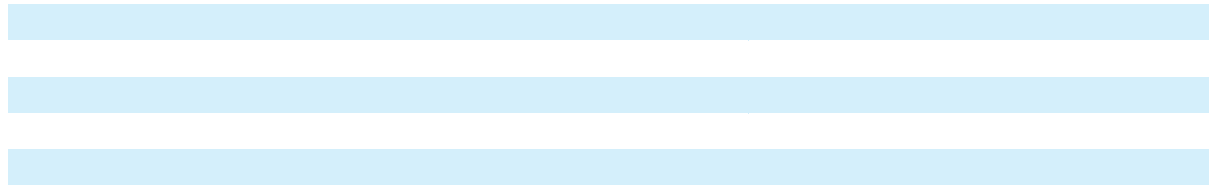
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REGISTERED

POWER TRANSFORMERS, 1VA TO 180VA, FOR NORTH AMERICA, EUROPE

PCB Mount, Low-Profile PCB Mount, Quick Connect, Lead Wire

Part Number Ordering System (See Page 224)  
Output Plug/Cord Options (See Page 189)

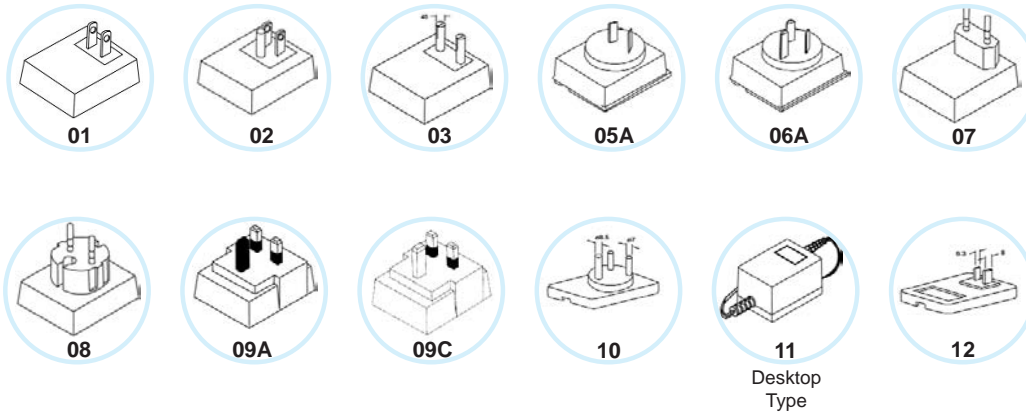
MODEL NUMBER	OUTPUT (VAC)	CURRENT (A)	UNITSIZE (MM) (LxWxH)	SINGLE PRI N.A.	SINGLE PRI EURO.	DUAL PRI	SINGLE SEC	DUAL SEC	CENTER TAP	PCB MOUNT	PCB MOUNT (LOW PROFILE)	QUICK TERM.	LEAD WIRE
GT-ET06-1(2,3)-536	36VCT	0.17	43-33-35	■	■	■			■			■	
GT-ET(L)12-1(2,3)-536	36VCT	0.35	50-39-42	■	■	■			■			■	■
GT-ET(L)30-1(2,3)-536	36VCT	0.85	59-45-49	■	■	■			■			■	■
GT-ET(L)56-1(2,3)-536	36VCT	1.50	69-48-57	■	■	■			■			■	■
GT-ET(L)100-1(2,3)-536	36VCT	2.80	78-57-65	■	■	■			■			■	■
GT-EU02-2-088	(2)44V/(1)88V	0.056A/0.028A	38-48-16			■		■			■		
GT-EU06-2-088	(2)44V/(1)88V	0.13A/0.065A	38-48-21			■		■			■		
GT-EU12-2-088	(2)44V/(1)88V	0.26A/0.13A	51-64-27			■		■			■		
GT-ET06-1(2,3)-548	48VCT	0.125	43-33-35	■	■	■			■			■	
GT-ET(L)12-1(2,3)-548	48VCT	0.25	50-39-42	■	■	■			■			■	■
GT-ET(L)30-1(2,3)-548	48VCT	0.63	59-45-49	■	■	■			■			■	■
GT-ET(L)56-1(2,3)-548	48VCT	1.20	69-48-57	■	■	■			■			■	■
GT-ET(L)100-1(2,3)-548	48VCT	2.00	78-57-65	■	■	■			■			■	■
GT-ET06-1(2,3)-556	56VCT	0.11	43-33-35	■	■	■			■			■	
GT-ET(L)12-1(2,3)-556	56VCT	0.22	50-39-42	■	■	■			■			■	
GT-ET(L)30-1(2,3)-556	56VCT	0.54	59-45-49	■	■	■			■			■	■
GT-ET(L)56-1(2,3)-556	56VCT	1.00	69-48-57	■	■	■			■			■	■
GT-ET(L)100-1(2,3)-556	56VCT	1.80	78-57-65	■	■	■			■			■	■
GT-EP01-1(2)-120	(2)60V/(1)120V	0.02A/0.01A	39-29-24	■		■		■			■		
GT-EP02-1(2)-120	(2)60V/(1)120V	0.04A/0.02A	39-29-30	■		■		■			■		
GT-EU02-2-120	(2)60V/(1)120V	0.04A/0.02A	38-48-16			■		■			■		
GT-EP06-1(2)-120	(2)60V/(1)120V	0.10A/0.05A	42-34-34	■		■		■			■		
GT-EU06-2-120	(2)60V/(1)120V	0.10A/0.05A	38-48-21			■		■			■		
GT-EP12-1(2)-120	(2)60V/(1)120V	0.20A/0.10A	48-40-37	■		■		■			■		
GT-EU12-2-120	(2)60V/(1)120V	0.20A/0.10A	51-64-27			■		■			■		
GT-EP20-1(2)-120	(2)60V/(1)120V	0.32A/0.16A	58-48-37	■		■		■			■		
GT-EU02-2-240	(2)120V/(1)240V	0.02A/0.01A	38-48-16			■		■			■		
GT-EU06-2-240	(2)120V/(1)240V	0.05A/0.025A	38-48-21			■		■			■		
GT-ET06-1(2,3)-620	120VCT	0.05	43-33-35	■	■	■			■			■	
GT-EU12-2-240	(2)120V/(1)240V	0.10A/0.05A	51-64-27			■		■			■		
GT-ET(L)12-1(2,3)-620	120VCT	0.10	50-39-42	■	■	■			■			■	■
GT-ET(L)30-1(2,3)-620	120VCT	0.25	59-45-49	■	■	■			■			■	■
GT-ET(L)56-1(2,3)-620	120VCT	0.50	69-48-57	■	■	■			■			■	■
GT-ET(L)100-1(2,3)-620	120VCT	0.85	78-57-65	■	■	■			■			■	■



SPECIFICATIONS MAY CHANGE WITHOUT PRIOR NOTICE. CONSULT GLOBTEK CUSTOMER SERVICE FOR LATEST SPECIFICATIONS.



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COUNTRY	VOLTAGE	BLADE
Algeria	110/220	07/08
Argentina	220	05A/06A
Australia	240	05A/06A
Austria	220	07/08
Bangladesh	240	09/10
Belgium	220	07/08
Bolivia	115/230	07
Brazil	110/220	02/01/07
Bulgaria	220	07/08
Burma	220	09X/10
Canada	120	01/02
Chile	220	07
China	220	01/06A
Colombia	110/220	01
Costa Rica	110/220	01/02
Denmark	230	07
Dominican Republic	110	01
Egypt	220	07
Finland	230	07/08
France	230	07/08
Greece	127/220	07/08
Germany	230	07/08
Guatemala	110	01/02
Guinea	220	07/08
Holland	220	07/08
Honduras	110/220	01
Hong Kong	220	09X
Hungary	220	07/08
Iceland	220	07/08
India	220	10
Indonesia	220	07/08
Iraq	220	09/10

COUNTRY	VOLTAGE	BLADE
Israel	220	07
Iran	220	03/07
Italy	127/220	07
Japan	100	01
Korea	220	01/02/07
Kuwait	240	09X/10
Laos	110/220	01/02/07
Luxembourg	220	07/08
Malaysia	240	09X
Netherlands	220	07/08
New Zealand	230	05/06A
Norway	220	07/08
Panama	110	01/02
Philippines	115	01/02
Poland	220	07/08
Portugal	220	07/08
Romania	220	07/08
Saudi Arabia	220	03/07/02
Singapore	230	09X
South Africa	220	10
Spain	220	07/08
Sweden	220	07/08
Switzerland	220	07
Taiwan	110	01/02
Thailand	220	01/02/07
Turkey	220	07/08
United Kingdom	240	09X
Uruguay	220	06A
U.S.A.	120	01/02
Russia	110/220	01/02/07
Yugoslavia	220	07/08



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## ADAPTOR CASE STYLES

### GT-3 Family Enclosures



<p>35-01</p>	<p>35-02</p>	<p>35-20</p>
<p>35-21</p>	<p>35-22</p>	<p>35-23</p>
<p>35-23-05A</p>	<p>35-24</p>	<p>35-25-09X</p>
<p>41-01</p>	<p>41-02</p>	<p>41-04</p>
<p>41-03-01</p>	<p>41-06</p>	<p>41-09</p>

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GT-3 Family Enclosures

<p>41-07</p>	<p>41-19</p>	<p>41-20</p>
<p>41-20-11</p>	<p>41-21-02</p>	<p>41-23-05A</p>
<p>41-22-07</p>	<p>41-24</p>	<p>41-25</p>
<p>48-01</p>	<p>48-1A</p>	<p>48-02</p>
<p>48-03</p>	<p>48-10-02</p>	<p>48-18</p>



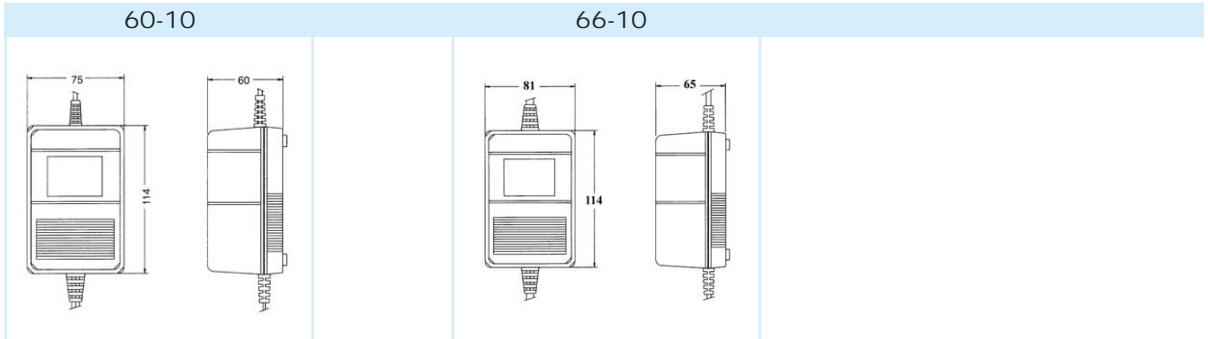
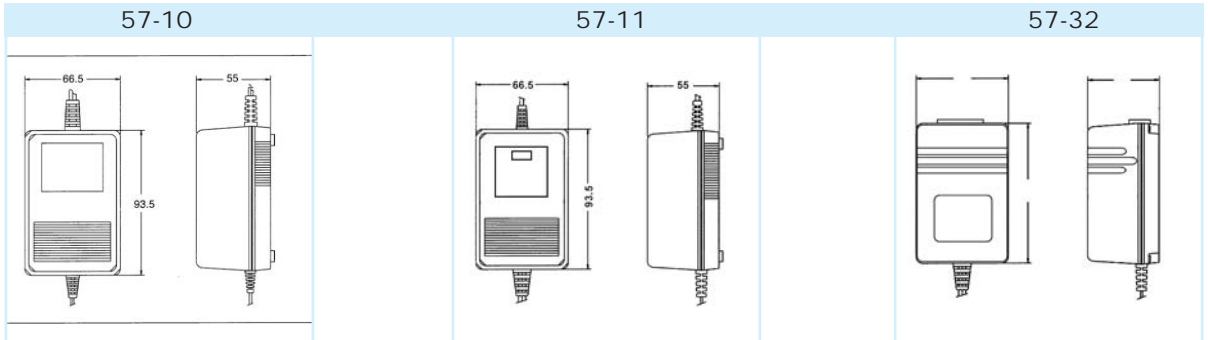
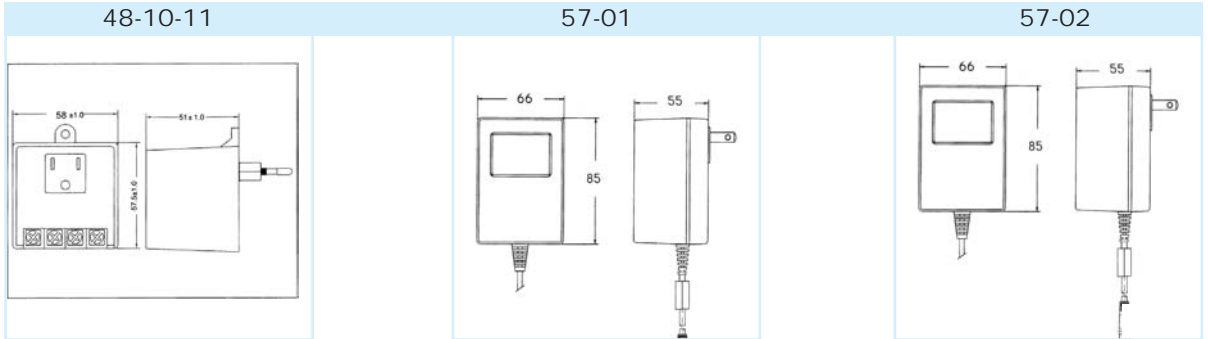
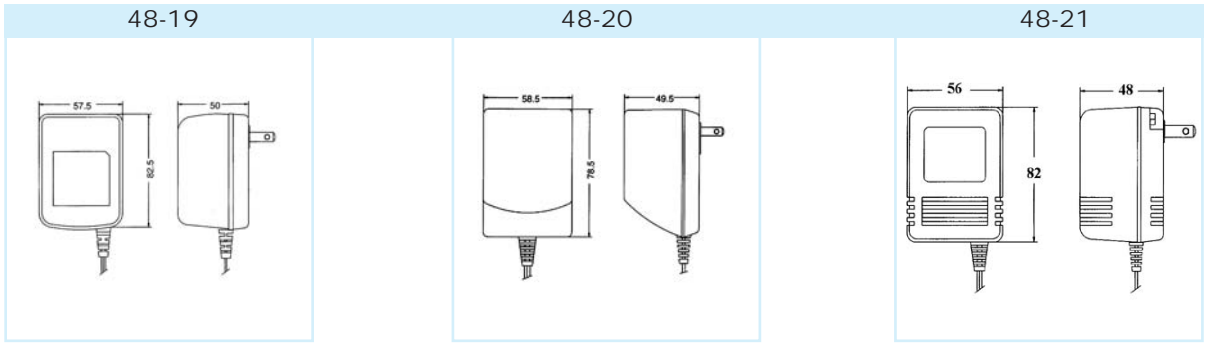
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## ADAPTOR CASE STYLES

### GT-3 Family Enclosures



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GT-7 Family Enclosures

AC/AC Adaptors

A(E,B,S)--AP(L): Example

**A 30A P**

**Input Blade Style:**

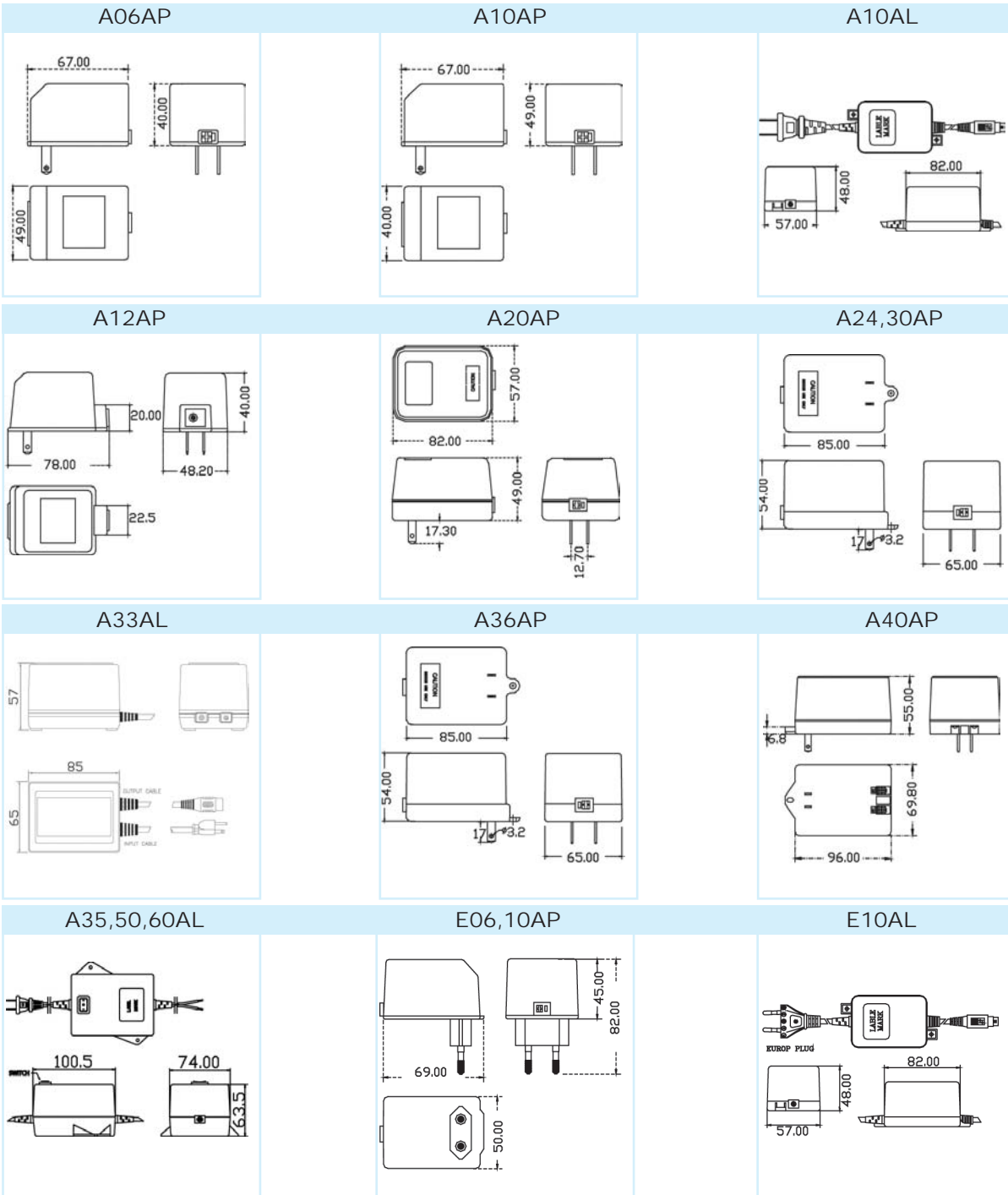
A: N.A.; E: Euro; B: U.K.; S: Australia

**Case Style:**

P: Wall Plug; L: Dual Cord

**Transformer Case Size:**

06A; 6VA; 10A; 10VA; 12A; 12VA; 16A; 16VA; 20A; 20VA; 22A; 22VA; 25A; 25VA; 30A; 30VA; 45A; 45VA; 60A; 60VA; 105A; 105VA; 120A; 120VA; 150A; 150VA; 180A; 180VA; 200A; 200VA



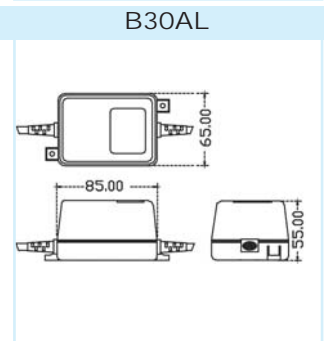
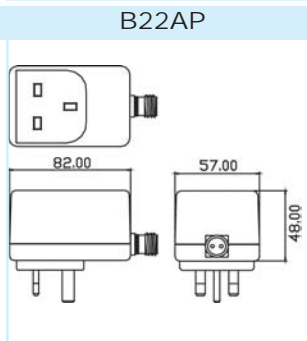
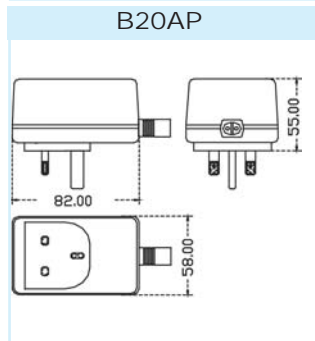
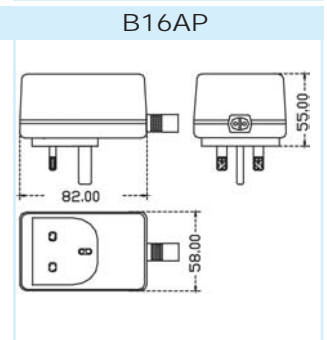
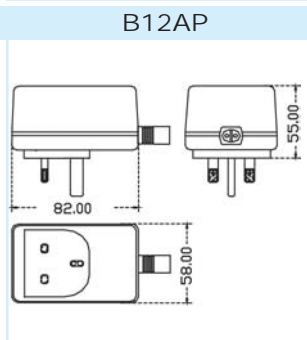
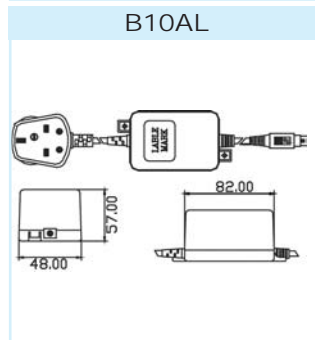
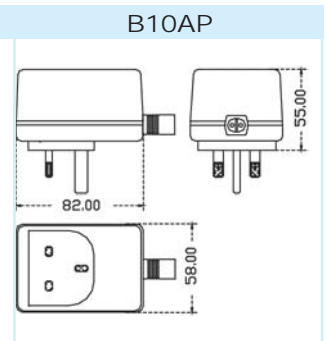
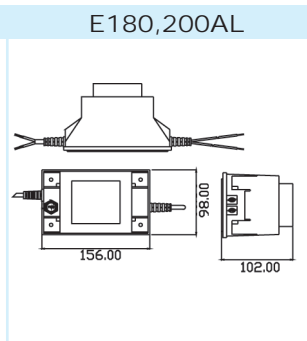
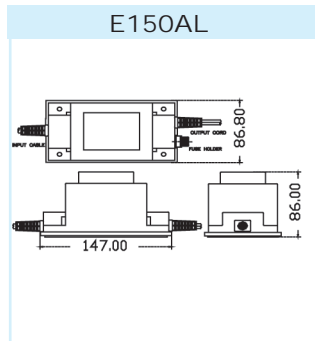
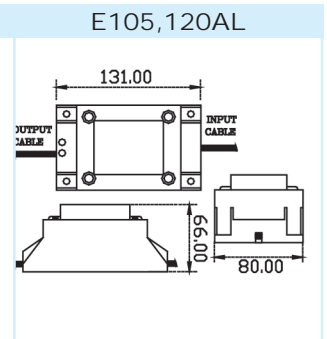
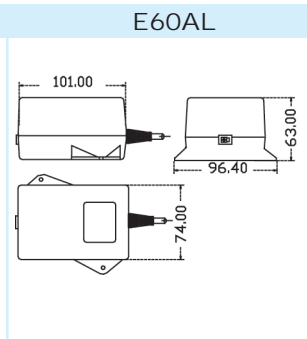
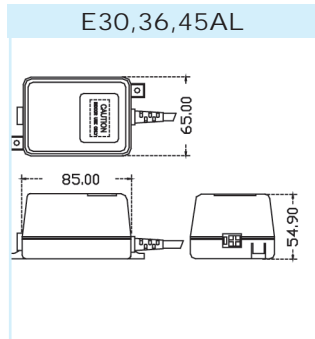
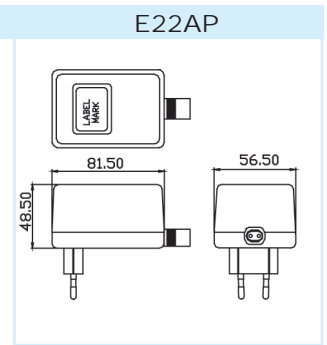
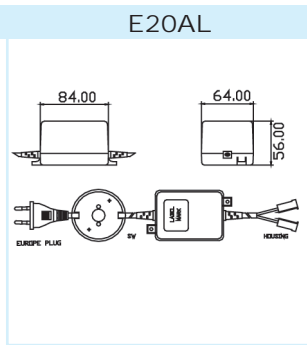
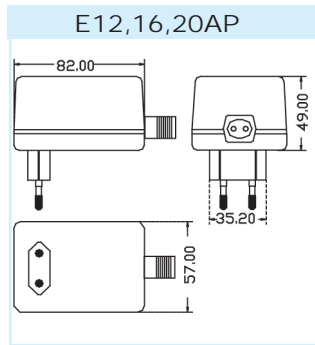
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## ADAPTOR CASE STYLES

### GT-7 Family Enclosures



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GT-7 Family Enclosures

<p><b>B36AL</b></p>	<p><b>B45AL</b></p>	<p><b>B60AL</b></p>
<p><b>B105AL</b></p>	<p><b>B150AL</b></p>	<p><b>S06AP</b></p>
<p><b>S10AP</b></p>	<p><b>S20AP</b></p>	<p><b>S30AL</b></p>
<p><b>S36AL</b></p>	<p><b>S45AL</b></p>	<p><b>S60AL</b></p>
<p><b>S105AL</b></p>	<p><b>S150AL</b></p>	<p><b>S03DP</b></p>



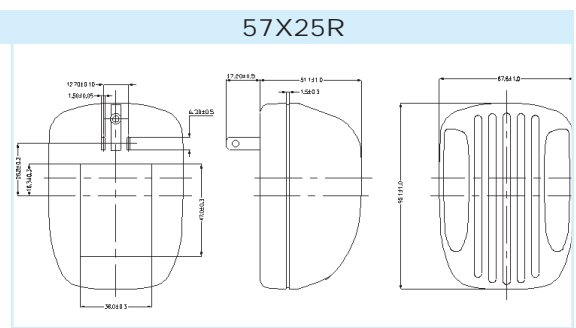
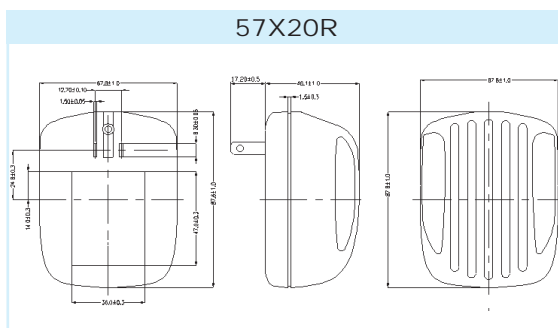
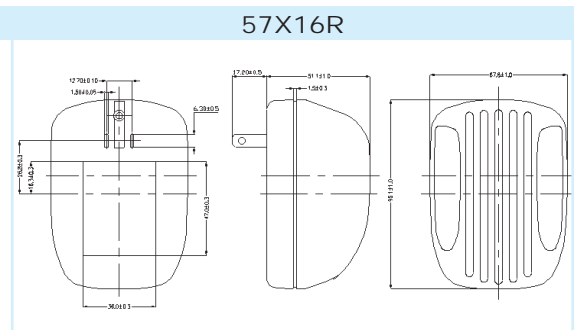
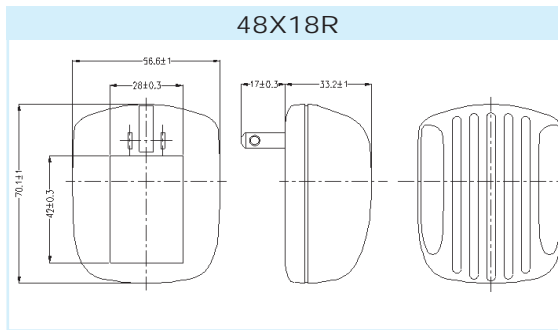
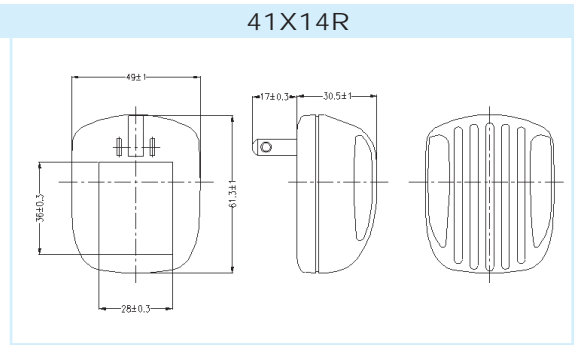
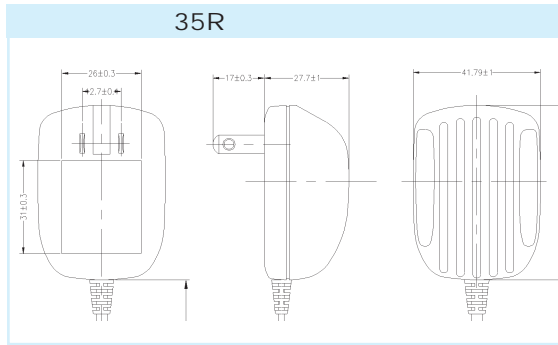
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## ADAPTOR CASE STYLES

### GT-8 Family Enclosures

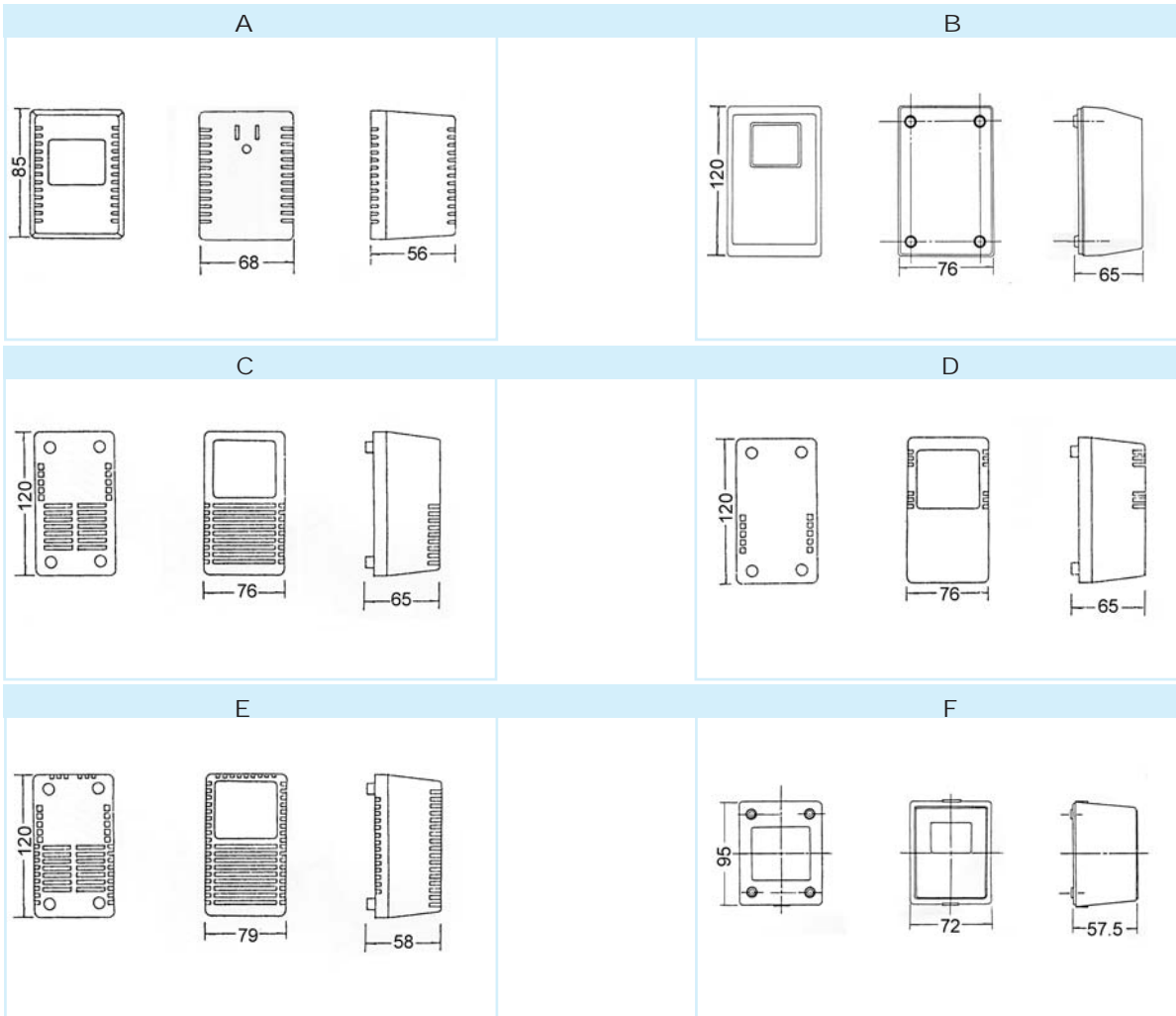


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AC/DC Linear Regulated Adaptors



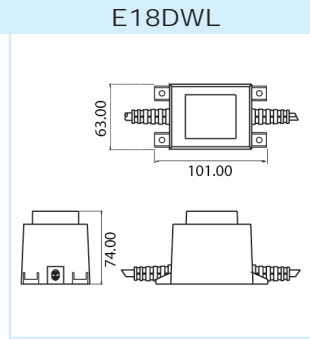
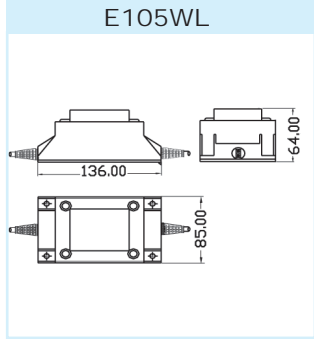
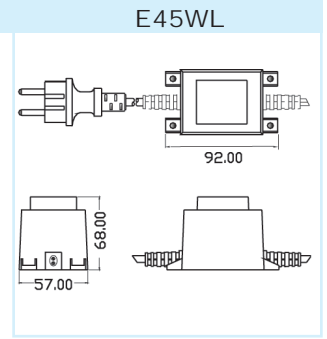
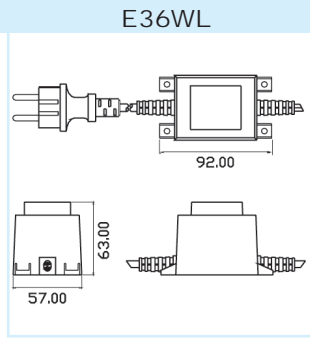
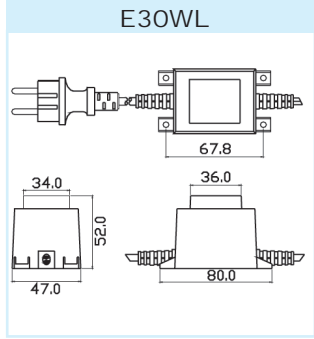
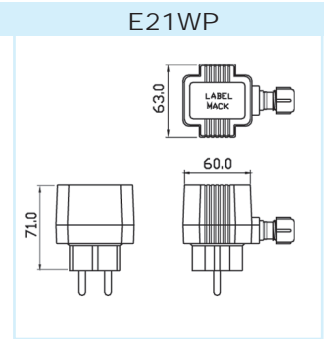
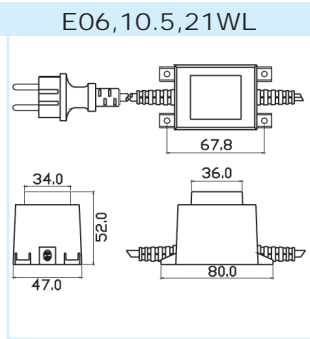
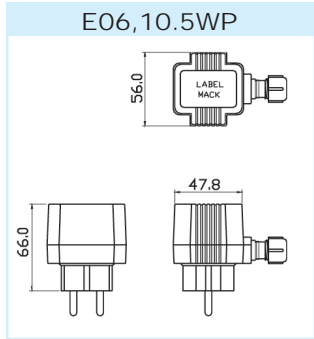
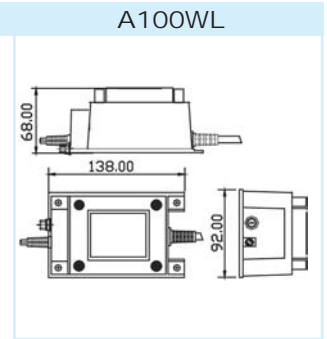
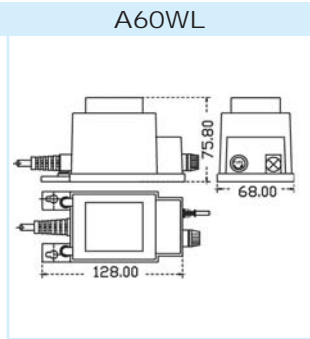
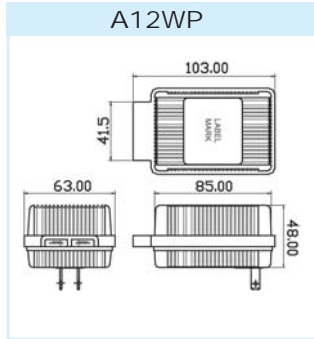
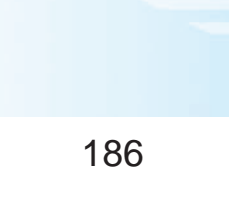
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## ADAPTOR CASE STYLES

### Weatherproof Adaptors



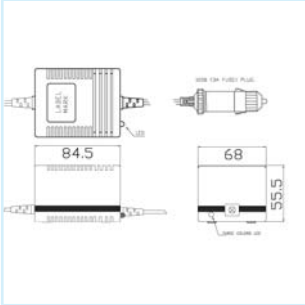
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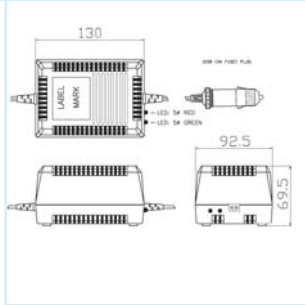
ISO 9001:2000  
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PCB Mount, Low-Profile PCB Mount, Quick Connect, Lead Wire  
Battery Chargers

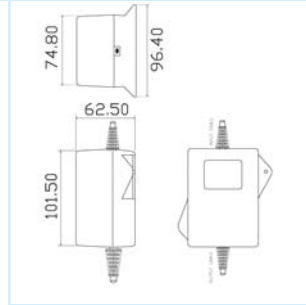
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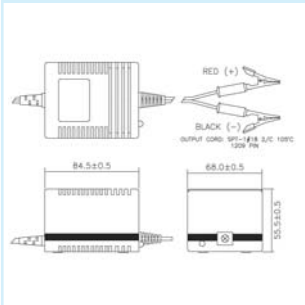
BCA66-12



BCA66-24



BCJ66



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## ACCESSORIES

### Input Cord Options International Configurations

COUNTRY	PART NUMBER	DESCRIPTION
NORTH AMERICAN	3021457F701	3 COND: SVT 18/3, 7', BLACK, UL/CSA NEMA 5-15P-IEC 320/C13
NORTH AMERICAN	3021455F8712	3 COND: SVT 18/3, 5'8", BLACK, UL/CSA NEMA 5-15P-IEC 320/C5
NORTH AMERICAN	4511116F703	2 COND: SPT-2, 18/2, 6', BLACK, UL/CSA NEMA 1-15P-IEC 320/C7
N A HOSPITAL	1191068F0701	3 COND: SJT 18/3, 8 Ft., BLACK, UL/CSA HOSPITAL NEMA 5-15P-IEC 320/C13
N A HOSPITAL	1191068F0712	3 COND: SJT 18/3, 8 Ft., BLACK, HOSPITAL NEMA 5-15P-IEC 320/C5
EUROPEAN	23144272M5701	3 COND: H05VVF, 3x1.00, 2.5M CEE 7/7-IEC 320/C13
EUROPEAN	23144262M0712	3 COND: H05VVF, 3x0.75, 2M, VDE, S, N, D, ect. CEE 7/7-IEC 320/C5
EUROPEAN	2074111M8703	2 COND: H05V VH2F, 2X0.75, 1.8M, VDE, S, N, D, ect. CEE 7/16-IEC 320/C7
AUSTRALIAN	5502022M5701	3 COND: G TSA 3x1.0, 2.5M, SAA AS3112-IEC 320/C13
AUSTRALIAN	5504262M0712	3 COND: H05VVF, 3X0.75, 2M, SAA AS3112-IEC 320/C5
AUSTRALIAN	5014112M703	2 COND: H05V VH2F, 2X0.75, 2M, SAA AS3112-IEC 320/C7
JAPAN	3003068F2701	3 COND: VCTF, 3x 2.0, 2.5M, PSE JIS8303-IEC 320/C13
JAPAN	3003311M8712	3 COND: VCTF, 3x 0.75, 1.8M, PSE JIS8303-IEC 320/C5
JAPAN	451J3401M8703	2 COND: VFF, 2X0.75mm <sup>2</sup> , 1.8M, PSE JIS8303-IEC 320/C7
UK	PZ0800100/2M5BK13	3 COND: H05VVF, 3x1.0, 2.5M, BSI BS1363-IEC 320/C13
UK	6104262M0712	3 COND: H05VVF, 3x0.75, 2M, BSI BS1363-IEC 320/C5
UK	6104112M703	2 COND: H03V VH2F, 2X0.75, 2M, BSI BS1363-IEC 320/C7
SWISS	23214272M5701	3 COND: H05VVF 3x1.0, 2.5M, SEV SEV 1011-IEC 320/C13
SWISS	23214262M0712	3 COND: H05VVF 3x0.75, 2M SEV 1011-IEC 320/C5
SWISS	2074111M8703	2 COND: H03V VH2F, 2X0.75, 1.8M, SEV CEE 7/16-IEC 320/C7
ITALIAN	23024272M5701	3 COND: H05VVF 3x 1.00, 2.5M, IMQ CEI 23-16/VII-IEC 320/C13
ITALIAN	23024262M0712	3 COND: H05VVF 3x0.75, 2M, IMQ CEI 23-16/VII-IEC 320/C5
ITALIAN	2074111M8703	2 COND: H03V VH2F, 2X0.75, 1.8M, IMQ CEE 7/16-IEC 320/C7
DENMARK	G8014262M5701	3 COND: H05V VF 3x 1.00, 2.5M, D AFSNIT 107-2-D1-IEC 320/C13
DENMARK	2134262M0712	3 COND: H05V VF 3x0.75, 2M, D AFSNIT 107-2-D1-IEC 320/C5
DENMARK	2074111M8703	2 COND: H03V VH2F, 2X0.75, 1.8M, D CEE 7/16-IEC 320/C7
INDIA / S. AFRICA	2084272M5701	3 COND: H05VVF 3x1.0, 2.5M BS546-IEC 320/C13
INDIA / S. AFRICA	2084262M0712	3 COND: H05VVF 3x0.75, 2M BS546-IEC 320/C5
INDIA / S. AFRICA	2084111M8703	2 COND: H05VVF 3x0.75, 1.8M BS546-IEC 320/C7
CHINA	6023602M5701	3 COND: RVV, 3X1.0mm <sup>2</sup> , 2.5M, CCC GB2099.1 (1996)-IEC 320/C13
CHINA	6023592M0712	3 COND: RVV, 3X0.75mm <sup>2</sup> , 2M, CCC GB2099.1 (1996)-IEC 320/C5
CHINA	4533501M8703	2 COND: RVV (227IEC52), 2X0.75mm <sup>2</sup> , 1.8M, CCC GB2099.1 (1996)-IEC 320/C7

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Output Plug/Cord Options

NO.	DESCRIPTION/ DIMENSIONS	OUTPUT PLUG	WIRING * DC POWER	MATING CONNECTOR
<b>A</b>	<p><b>Strip&amp;Tin:</b> 2 Conductor, UL VW-1 Rated, Flat Cord, Black PVC Jacket , 6FT.</p>	N/A	+ : CONDUCTOR JACKET MARKED	N/A
<b>LN</b>	<p><b>5.5x2.5x11mm</b> Female Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Blk PVC Jacket, 6Ft.</p>	2.5mm I.D. 5.5mm O.D. 11mm Barrel		2.5mm Pin Dia. DC Power Jack
<b>LSN<sup>o</sup></b>	<p><b>5.5x2.5x11mm</b> Female Plug/ 2 Conductor, UL VW-1 Rated, Shielded-Foil Shield w/Drain Wire, Round Cord, Blk PVC Jacket, 6Ft, Shield connected to earth ground inside unit.</p>	2.5mm I.D. 5.5mm O.D. 11mm Barrel		2.5mm Pin Dia. DC Power Jack
<b>LHN</b>	<p><b>5.5x2.5x11mm</b> High Retention Female Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Blk PVC Jacket, 6Ft.</p>	2.5mm I.D. 5.5mm O.D. 11mm Barrel		2.5mm Pin Dia. DC Power Jack
<b>LRN<sup>o</sup></b>	<p><b>5.5x2.5x11mm</b> Right Angle Female Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Black PVC Jacket, 6Ft.</p>	2.5mm I.D. 5.5mm O.D. 11mm Barrel		2.5mm Pin Dia. DC Power Jack
<b>LLN</b>	<p><b>5.5x2.5x11mm</b> Locking Female Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Black PVC Jacket, 6Ft.</p>	2.5mm I.D. 5.5mm O.D. 11mm Barrel		2.5mm Pin Dia. DC Power Jack
<b>CN<sup>o</sup></b>	<p><b>5.5x2.1x11mm</b> Female Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Blk PVC Jacket, 6Ft.</p>	2.1mm I.D. 5.5mm O.D. 11mm Barrel		2mm Pin Dia. DC Power Jack
<b>CSN</b>	<p><b>5.5x2.1x11mm</b> Female Plug/ 2 Conductor, UL VW-1 Rated, Shielded-Foil Shield w/Drain Wire, Round Cord, Blk PVC Jacket, 6Ft, Shield connected to earth ground inside unit.</p>	2.1mm I.D. 5.5mm O.D. 11mm Barrel		2mm Pin Dia. DC Power Jack
<b>CHN<sup>o</sup></b>	<p><b>5.5x2.1x11mm</b> High Retention Female Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Blk PVC Jacket, 6Ft.</p>	2.1mm I.D. 5.5mm O.D. 11mm Barrel		2mm Pin Dia. DC Power Jack

\*Alternative Polarity and Custom Pinouts Arrangement Available





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### Output Plug/Cord Options

NO.	DESCRIPTION/ DIMENSIONS	OUTPUT PLUG	WIRING * DC POWER	MATING CONNECTOR											
<b>CRN<sup>o</sup></b>	5.5x2.1x11mm Right Angle Female Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Black PVC Jacket, 6Ft. 	<table border="1"> <tr><th>X</th><th>N<sup>o</sup></th></tr> <tr><td>9.5</td><td>9</td></tr> <tr><td>11</td><td>C</td></tr> <tr><td>12</td><td>2</td></tr> <tr><td>14</td><td>3</td></tr> </table>	X	N <sup>o</sup>	9.5	9	11	C	12	2	14	3	2.1mm I.D. 5.5mm O.D. 11mm Barrel		2mm Pin Dia. DC Power Jack
X	N <sup>o</sup>														
9.5	9														
11	C														
12	2														
14	3														
<b>CLN<sup>o</sup></b>	5.5x2.1x11mm Locking Female Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Black PVC Jacket, 6Ft. 	<table border="1"> <tr><th>X</th><th>N<sup>o</sup></th></tr> <tr><td>9.5</td><td>9</td></tr> <tr><td>11</td><td>C</td></tr> <tr><td>12</td><td>2</td></tr> </table>	X	N <sup>o</sup>	9.5	9	11	C	12	2	2.1mm I.D. 5.5mm O.D. 11mm Barrel		2.1mm Pin Dia. DC Power Jack Locking		
X	N <sup>o</sup>														
9.5	9														
11	C														
12	2														
<b>KN<sup>o</sup></b>	3.5 x 1.3 mm Female Plug/2 Conductor, UL VW-1 Rated, Shielded-Foil Shield w/Drain Wire, Round Cord, Blk PVC Jacket, 6Ft, Shield connected to earth ground inside unit. 	<table border="1"> <tr><th>X</th><th>N<sup>o</sup></th></tr> <tr><td>9.5</td><td>9</td></tr> <tr><td>11</td><td>C</td></tr> <tr><td>12</td><td>2</td></tr> </table>	X	N <sup>o</sup>	9.5	9	11	C	12	2	1.3 mm I.D. 3.5 mm O.D. 11mm Barrel		2.5mm Pin Dia. DC Power Jack		
X	N <sup>o</sup>														
9.5	9														
11	C														
12	2														
<b>PN<sup>o</sup></b>	3.5x14.5mm Male Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Black PVC Jacket, 6Ft. 	<table border="1"> <tr><th>X</th><th>N<sup>o</sup></th></tr> <tr><td>9</td><td>9</td></tr> <tr><td>12</td><td>2</td></tr> <tr><td>11</td><td>T</td></tr> </table>	X	N <sup>o</sup>	9	9	12	2	11	T	3.5mm Dia. 14.5mm Barrel		3.5mm Dia. Jack		
X	N <sup>o</sup>														
9	9														
12	2														
11	T														
<b>PRN<sup>o</sup></b>	3.5x14.5mm Right Angle Male Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Black PVC Jacket, 6Ft. 	<table border="1"> <tr><th>X</th><th>N<sup>o</sup></th></tr> <tr><td>9</td><td>9</td></tr> <tr><td>11</td><td>T</td></tr> <tr><td>12</td><td>2</td></tr> <tr><td>14</td><td>3</td></tr> </table>	X	N <sup>o</sup>	9	9	11	T	12	2	14	3	3.5mm Dia. 14.5mm Barrel		3.5mm Dia. Jack
X	N <sup>o</sup>														
9	9														
11	T														
12	2														
14	3														
<b>SN<sup>o</sup></b>	2.5x11.5mm Male Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Black PVC Jacket, 6Ft. 	<table border="1"> <tr><th>X</th><th>N<sup>o</sup></th></tr> <tr><td>9.5</td><td>9</td></tr> <tr><td>11</td><td>T</td></tr> <tr><td>12</td><td>2</td></tr> </table>	X	N <sup>o</sup>	9.5	9	11	T	12	2	2.5mm Dia. 11.5mm Barrel		2.5mm Dia. Jack		
X	N <sup>o</sup>														
9.5	9														
11	T														
12	2														
<b>SRN<sup>o</sup></b>	2.5x11.5mm Right Angle Male Plug/ 2 Conductor, UL VW-1 Rated, Flat Cord, Black PVC Jacket, 6Ft. 	<table border="1"> <tr><th>X</th><th>N<sup>o</sup></th></tr> <tr><td>9</td><td>9</td></tr> <tr><td>11</td><td>T</td></tr> <tr><td>12</td><td>2</td></tr> <tr><td>14</td><td>3</td></tr> </table>	X	N <sup>o</sup>	9	9	11	T	12	2	14	3	2.5mm Dia. 11.5mm Barrel		2.5mm Dia. Jack
X	N <sup>o</sup>														
9	9														
11	T														
12	2														
14	3														

\*Alternative Polarity and Custom Pinouts Arrangement Available

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Output Plug/Cord Options

NO.	DESCRIPTION/ DIMENSIONS	OUTPUT PLUG	WIRING * DC POWER	MATING CONNECTOR
YL3	3 Pin 180° Kycon Locking Plug/ 3 Conductor, UL VW-1 Rated, Round Cord, Black PVC Jacket, 6Ft.  NON-LOCKING TYPE ALSO AVAILABLE	3 Pin 180° Snap and Lock Power Plug	Pin 1 (+) Pin 2 Com Pin 3 Gnd	Kycon KPJ-3S Socket
YLS3	3 Pin 180° Kycon Locking Plug/ 3 Conductor, UL VW-1 Rated, Shielded-Foil Shield w/ Drain Wire, Rnd. Cord, Blk PVC Jacket, 6Ft, Shield connected to shell.  NON-LOCKING TYPE ALSO AVAILABLE	3 Pin 180° Snap and Lock Power Plug	Pin 1 (+) Pin 2 Com Pin 3 Gnd Shell to Shield	Kycon KPJ-3S Socket
YL4	4 Pin 180° Kycon Locking Plug/ 4 Conductor, UL VW-1 Rated, Round Cord, Blk PVC Jacket, 6Ft.  NON-LOCKING TYPE ALSO AVAILABLE	4 Pin 180° Snap and Lock Power Plug	Pin 1 (+) Pin 2 Com Pin 3 (+) Pin 4 Com	Kycon KPJ-4S Socket
YLS4	4 Pin 180° Kycon Locking Plug/ 4 Conductor, UL VW-1 Rated, Shielded-Foil Shield w/Drain Wire, rnd. Cord, Blk. PVC Jacket, 6Ft, Shield connected to shell.  NON-LOCKING TYPE ALSO AVAILABLE	4 Pin 180° Snap and Lock Power Plug	Pin 1 (+) Pin 2 Com Pin 3 (+) Pin 4 Com Shell to Shield	Kycon KPJ-4S Socket
N03	3 Pin 180° DIN Plug/ 3 Conductor, UL VW-1 Rated, Round Cord, Black PVC Jacket, 6Ft.  NON-LOCKING TYPE ALSO AVAILABLE	3 Pin 180° Standard DIN	Pin 1 (+) Pin 2 Com Pin 3 Com	DIN Socket, 3 Contacts
NS3	3 Pin 180° DIN Plug/ 3 Conductor, UL VW-1 Rated, Shielded-Foil Shield w/Drain Wire, Round Cord, Black PVC Jacket, 6Ft, Shield connected to shell.  NON-LOCKING TYPE ALSO AVAILABLE	3 Pin 180° Standard DIN	Pin 1 (+) Pin 2 Com Pin 3 Com Shell to Shield	DIN Socket, 3 Contacts
N04	4 Pin 240° DIN Plug/ 4 Conductor, UL VW-1 Rated, Round Cord, Black PVC Jacket, 6Ft.  NON-LOCKING TYPE ALSO AVAILABLE	4 Pin 240° Standard DIN	Pin 1 (+) Pin 2 (+) Pin 3 Com Pin 4 Com Shell to Shield	DIN Socket, 4 Contacts
NS4	4 Pin 240° DIN Plug/ 4 Conductor, UL VW-1 Rated, Shielded-Foil Shield w/Drain Wire, Round Cord, Blk PVC Jacket, 6Ft, Shield connected to shell.  NON-LOCKING TYPE ALSO AVAILABLE	4 Pin 240° Standard DIN	Pin 1 (+) Pin 2 (+) Pin 3 Com Pin 4 Com Shell to Shield	DIN Socket, 4 Contacts
N05	5 Pin 180° DIN Plug/ 5 Conductor, UL VW-1 Rated, Round Cord, Blk PVC Jacket, 6Ft.  NON-LOCKING TYPE ALSO AVAILABLE	5 Pin 180° Standard DIN	Pin 1 Com Pin 2 Com Pin 3 +5V Pin 4 -12V Pin 5 +12V	DIN Socket, 5 Contacts

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### Output Plug/Cord Options

NO.	DESCRIPTION/ DIMENSIONS	OUTPUT PLUG	WIRING* DC POWER	MATING CONNECTOR
<b>NS5</b>	5 Pin 180° DIN Plug/ 5 Conductor, UL VW-1 Rated, Shielded-Foil Shield w/Drain Wire, Round Cord, Blk PVC Jacket, 6Ft, Shield connected to shell. 	5 Pin 180° Standard DIN	Pin 1 Com Pin 2 Com Pin 3 +5V Pin 4 -12V Pin 5 +12V Shell to Shield	DIN Socket, 5 Contacts
<b>N06</b>	6 Pin 240° DIN Plug/ 6 Conductor, UL VW-1 Rated, Round Cord, Blk PVC Jacket, 6Ft. 	6 Pin 240° Standard DIN	Pin 1 +5V Pin 2 -12V Pin 3 Com Pin 4 +12V Pin 5 +5V Pin 6 Com	DIN Socket, 6 Contacts
<b>NS6</b>	6 Pin 240° DIN Plug/ 6 Conductor, UL VW-1 Rated, Shielded-Foil Shield w/Drain Wire, Round Cord, Blk PVC Jacket, 6Ft, Shield connected to shell. 	6 Pin 240° Standard DIN	Pin 1 +5V Pin 2 12V Pin 3 Com Pin 4 +12V Pin 5 +5V Pin 6 Com Shell to Shield	DIN Socket, 6 Contacts
<b>N08</b>	8 Pin 270° DIN Plug/ 8 Conductor, UL VW-1 Rated, Round Cord, Black PVC Jacket, 6Ft. 	8 Pin 270° Standard DIN	Pin 1 +5V Pin 2 -12V Pin 3 Com Pin 4 +12V Pin 5 +5V Pin 6 Com Pin 7 +5V Pin 8 Com	DIN Socket, 8 Contacts
<b>NS8</b>	6 Pin MINI-DIN Plug/ 6 Conductor, UL VW-1 Rated, Round Cord, Black PVC Jacket, 6Ft. 	6 Pin MINI-DIN	Pin 1 +5V Pin 2 -12V Pin 3 Com	MINI-DIN Jack, 6 Contacts
<b>M05</b>	5 Pin 180° DIN Plug/ 5 Conductor, UL VW-1 Rated, Round Cord, Blk PVC Jacket, 6Ft.  LOCKING TYPE ALSO AVAILABLE	5 Pin 180° Standard DIN	Pin 1 Com Pin 2 Com Pin 3 +5V Pin 4 -12V Pin 5 +12V	DIN Socket, 5 Contacts
<b>MS5</b>	5 Pin 180° DIN Plug/ 5 Conductor, UL VW-1 Rated, Shielded-Foil Shield w/Drain Wire, Round Cord, Blk PVC Jacket, 6Ft, Shield connected to shell.  LOCKING TYPE ALSO AVAILABLE	5 Pin 180° Standard DIN	Pin 1 Com Pin 2 Com Pin 3 +5V Pin 4 -12V Pin 5 +12V Shell to Shield	DIN Socket, 5 Contacts
<b>MS6</b>	6 Pin MINI-DIN Plug/ 6 Conductor, UL VW-1 Rated, Shielded-Foil Shield w/Drain Wire, Round Cord, Black PVC Jacket, 6Ft, Shield connected to shell.  LOCKING TYPE ALSO AVAILABLE	6 Pin MINI-DIN	Pin 1 +5V Pin 2 -12V Pin 3 Com Pin 4 +12V Pin 5 +5V Pin 6 Com Shell to Shield	MINI-DIN Jack, 6 Contacts

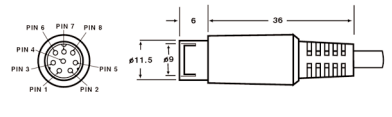
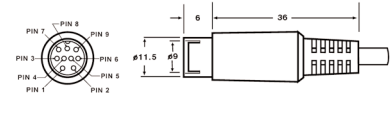
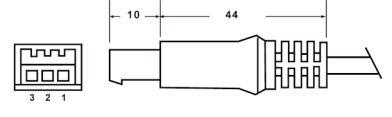
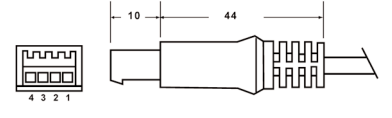
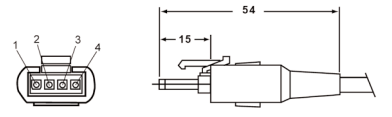
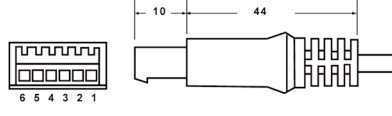
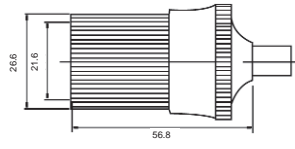
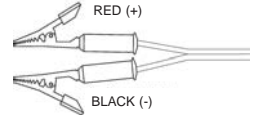
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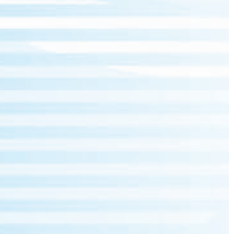


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Output Plug/Cord Options

NO.	DESCRIPTION/ DIMENSIONS	OUTPUT PLUG	WIRING* DC POWER	MATING CONNECTOR
M08	8 Pin MINI-DIN Plug/ 8 Conductor, UL VW-1 Rated, Round Cord, Black PVC Jacket, 6Ft.  LOCKING TYPE ALSO AVAILABLE	8 Pin MINI- DIN	Pin 1 +5V Pin 2 -12V Pin 3 Com Pin 4 +12V Pin 5 +5V Pin 6 Com Pin 7 +5V Pin 8 Com	MINI-DIN Jack, 8 Contacts
M09	9 Pin MINI-DIN Plug/ 9 Conductor, UL VW-1 Rated, Round Cord, Black PVC Jacket, 6Ft.  LOCKING TYPE ALSO AVAILABLE	9 Pin MINI- DIN	Pin 1 +5V Pin 2 -12V Pin 3 Com Pin 4 +12V Pin 5 +5V Pin 6 Com Pin 7 +5V Pin 8 Com Pin 9 Com	MINI-DIN Jack, 9 Contacts
D03	3 Terminal, 5.0A, Locking Molex Type/ 3 Conductor, UL VW-1 Rated, Round Cord, Blk PVC Jacket, 6Ft. 	3 Crimp Term 5.0A, 3.96mm Housing Molex: 2139	Pin 1 (+) Pin 2 Com Pin 3 Com	Molex: 41661
D04	4 Terminal, 5.0A, Locking Molex Type/ 4 Conductor, UL VW-1 Rated, Round Cord, Black PVC Jacket, 6Ft. 	4 Crimp Term 5.0A, 3.96mm Housing Molex: 2139	Pin 1 (+) Pin 2 (+) Pin 3 Com Pin 4 Com	Molex: 41661
R04	4 Terminal, 9.0A, Locking Molex Type/ 4 Conductor 16 AWG, UL VW-1 Rated, Round Cord, Blk. PVC Jacket, 6Ft. 	4 Crimp Term 9.0A, 4.20mm Housing Molex: 5557	Pin 1 (+) Pin 2 (+) Pin 3 Com Pin 4 Com	Molex: 5566
R06	6 Terminal, 5.0A, Locking Molex Type/ 6 Conductor, UL VW-1 Rated, Round Cord, Blk PVC Jacket, 6Ft. 	6 Crimp Term 5.0A, 3.96mm Housing Molex: 2139	Pin 1 +5V Pin 2 -12V Pin 3 Com Pin 4 +12V Pin 5 +5V Pin 6 Com	Molex: 41661
XC	Cigarette Plug w/ 2 Conductor Flat Parallel Cable, ULVW-1, 24 to 16 AWG, Black PVC Jacket, 6Ft. Avail. w/ Optional Fuse and/or LED.	Cigarette Plug	Tip (+) Outside Com	Cigarette Socket
XF	Cigarette Socket w/ 2 Conductor Flat Parallel Cable, ULVW-1, 24 to 16 AWG, Black PVC Jacket, 6Ft. 	Cigarette Socket	Center (+) Outside Com	Cigarette Plug
AC2	Alligator Clip w/ 2 Conductor Flat Para. Cable, ULVW-1, 24 to 16 AWG, Blk PVC Jacket, 6Ft. 	Alligator Clips	Red (+) Black (-)	Posts

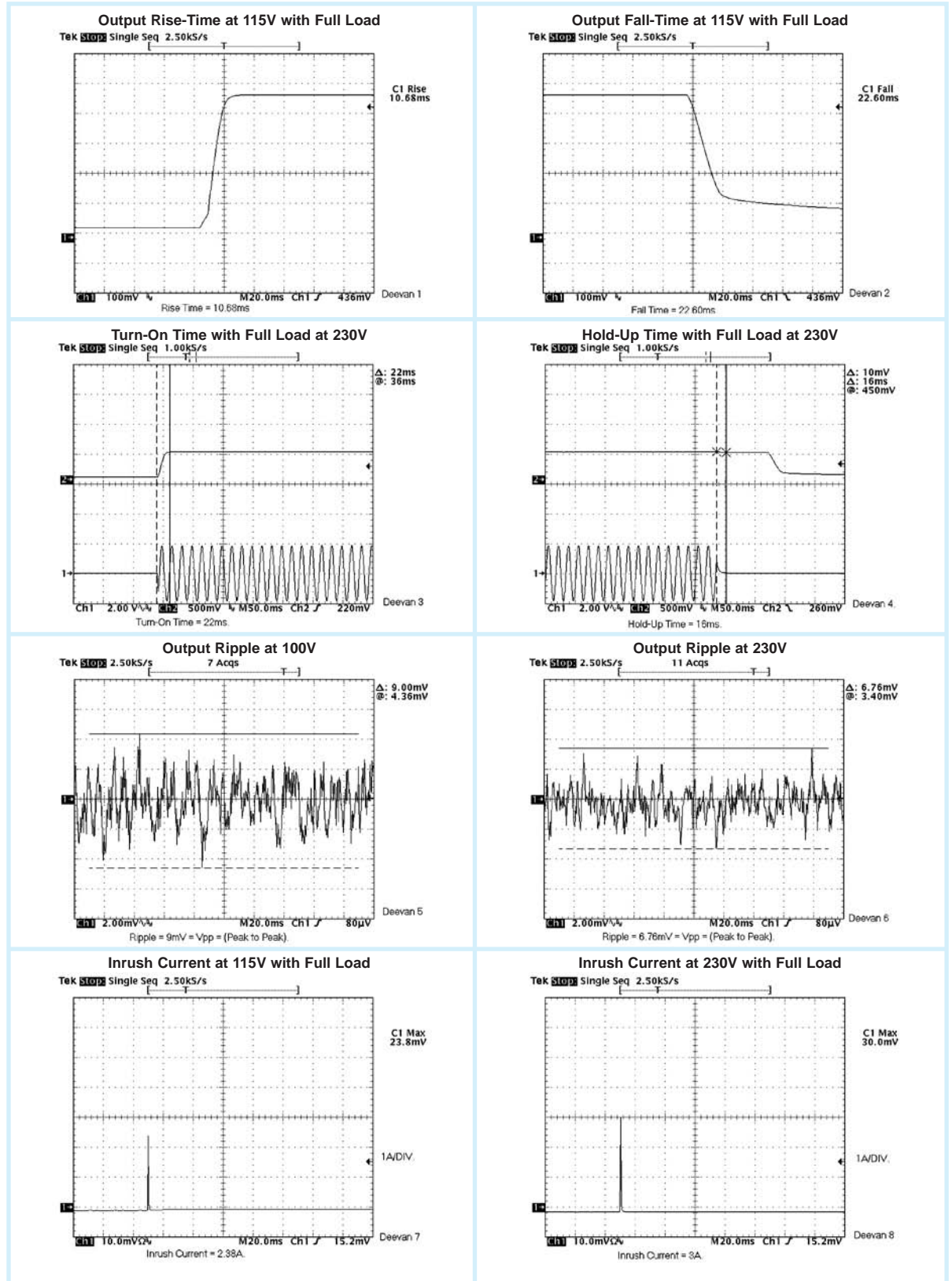
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Electrical Performance Curves

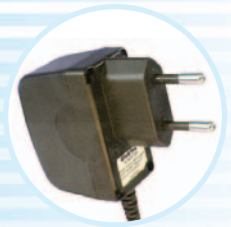


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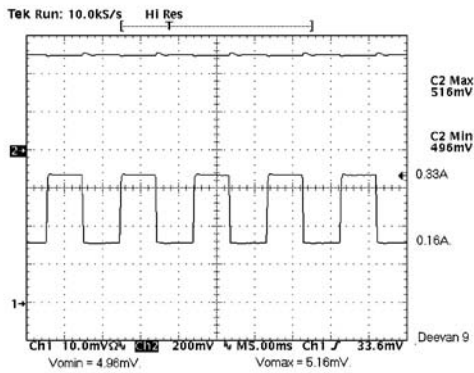


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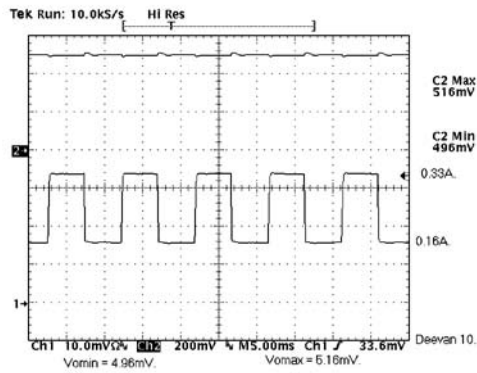
Electrical Performance Curves



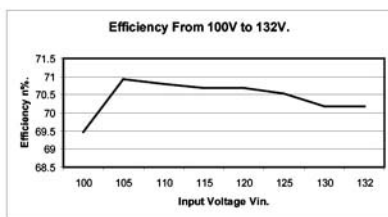
Dynamic Load Response at 115V



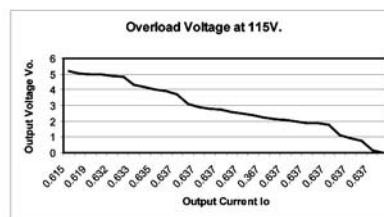
Dynamic Load Response at 230V



Efficiency From 100V to 132V at Full Load



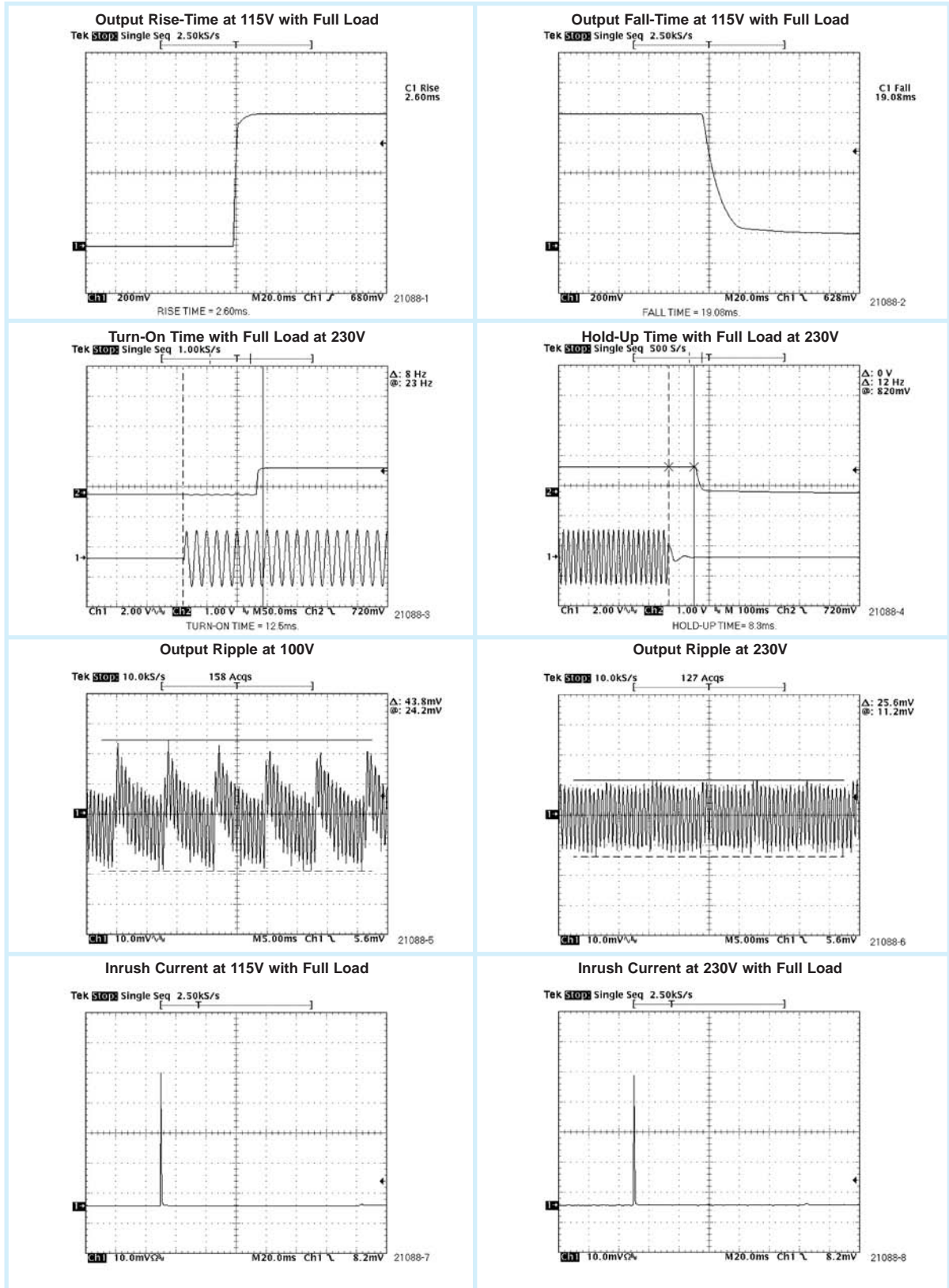
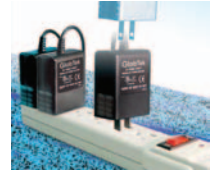
Output Overload at 115V





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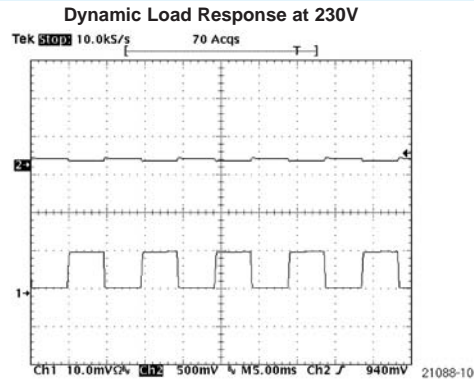
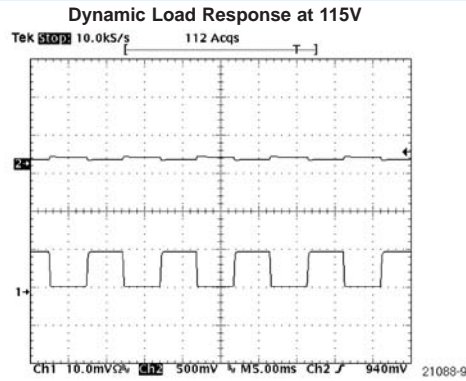
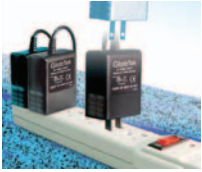


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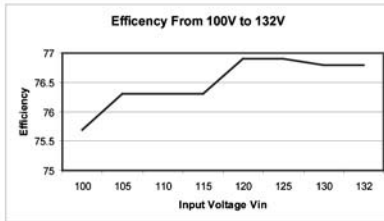


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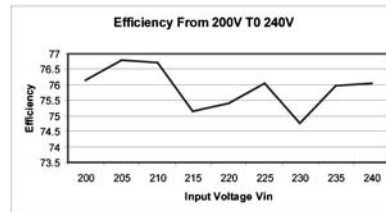
Electrical Performance Curves



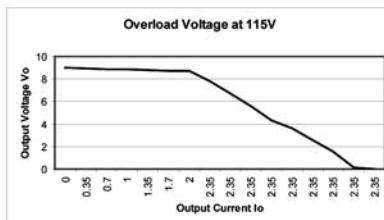
Efficiency From 100V to 132V at Full Load



Efficiency From 200V to 240V at Full Load



Output Overload at 115V



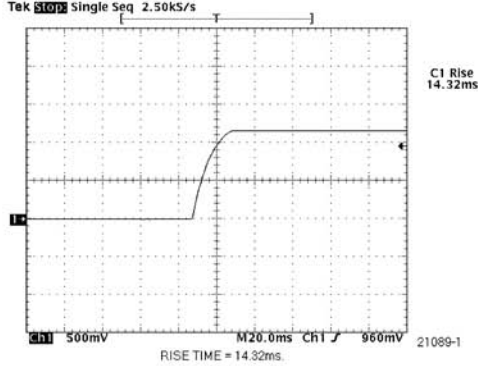


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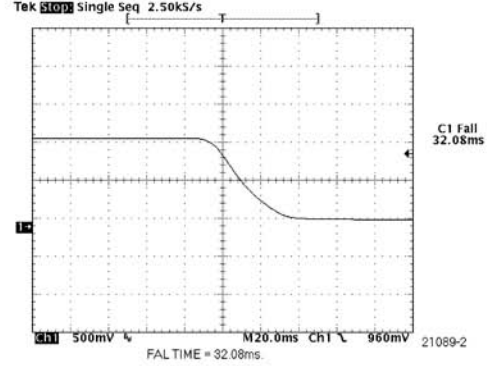
Electrical Performance Curves



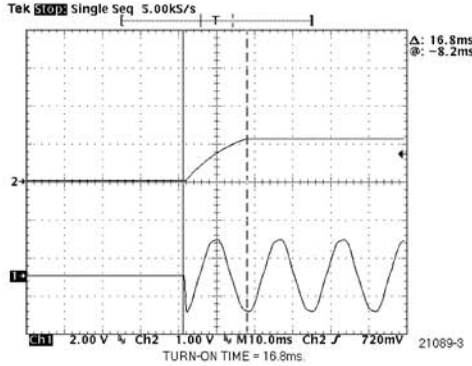
Output Rise-Time at 115V with Full Load



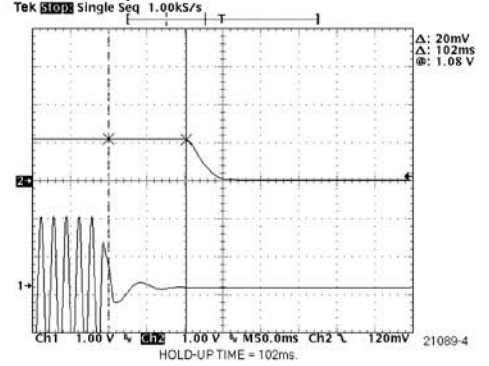
Output Fall-Time at 115V with Full Load



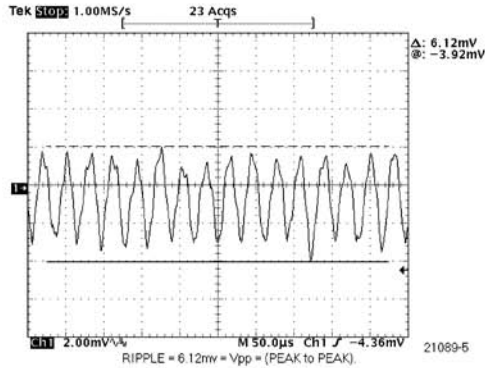
Turn-On Time with Full Load at 230V



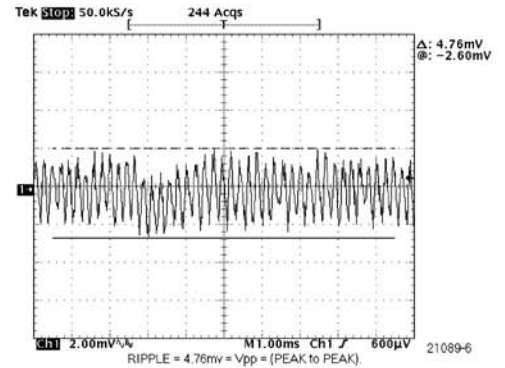
Hold-Up Time with Full Load at 230V



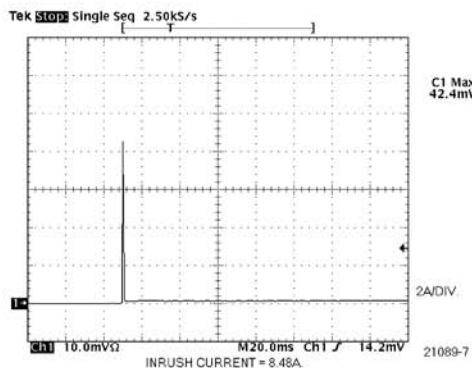
Output Ripple at 100V



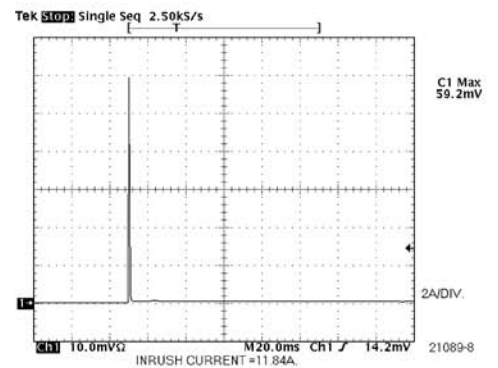
Output Ripple at 230V



Inrush Current at 115V with Full Load



Inrush Current at 230V with Full Load



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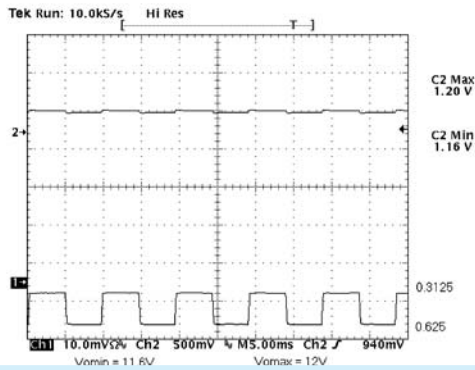


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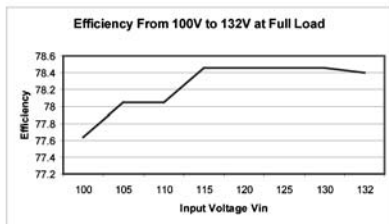
Electrical Performance Curves



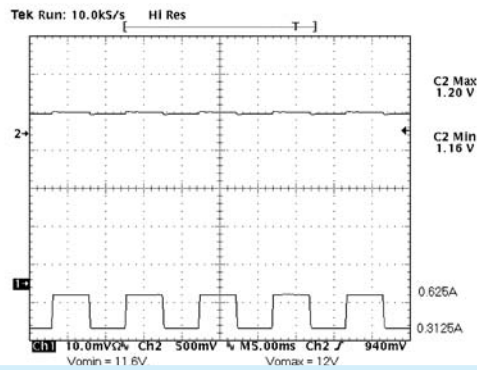
Dynamic Load Response at 115V



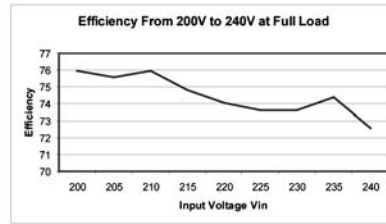
Efficiency From 100V to 132V at Full Load



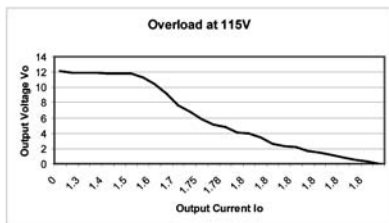
Dynamic Load Response at 230V



Efficiency From 200V to 240V at Full Load



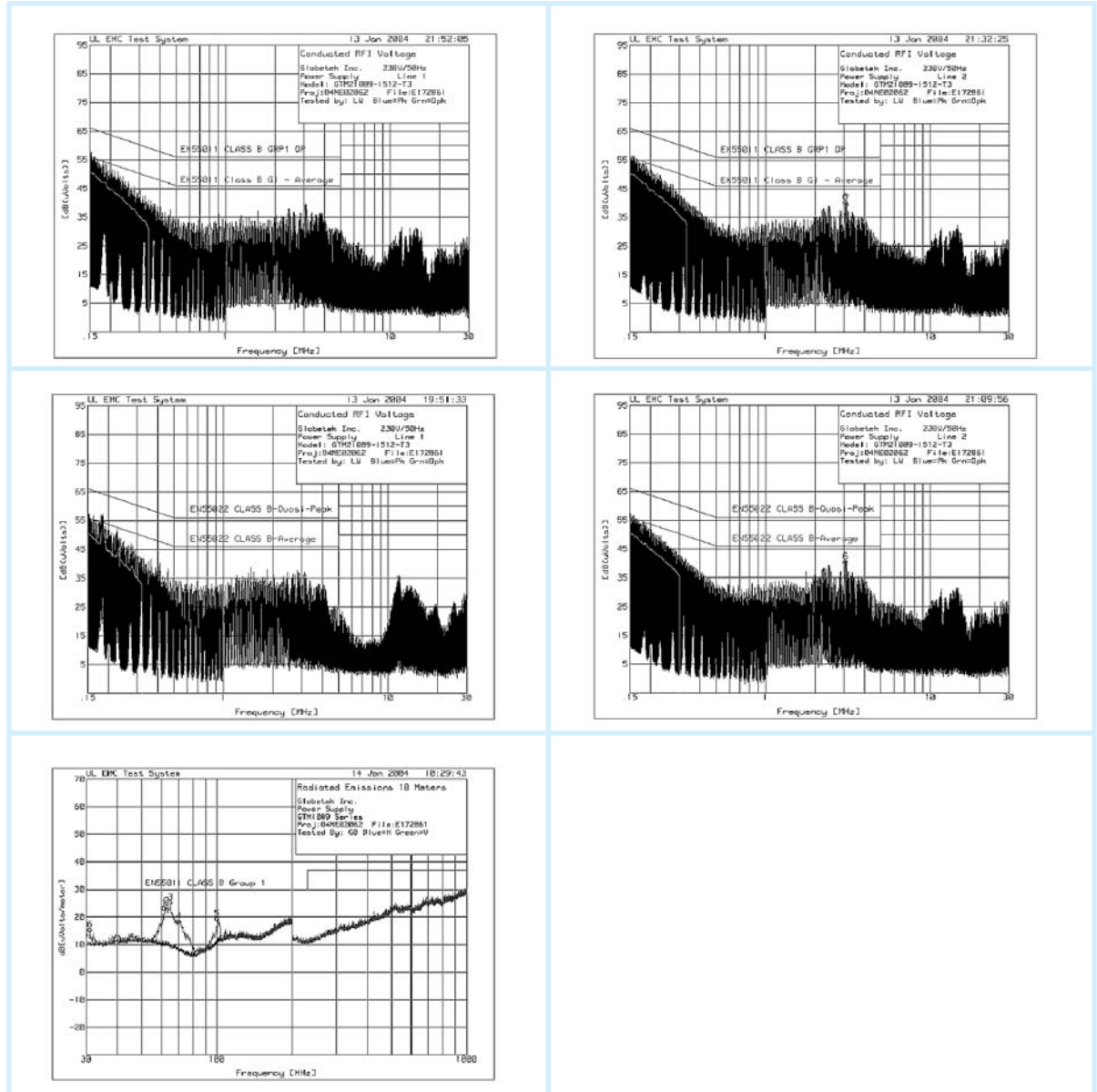
Output Overload at 115V





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Electrical Performance Curves

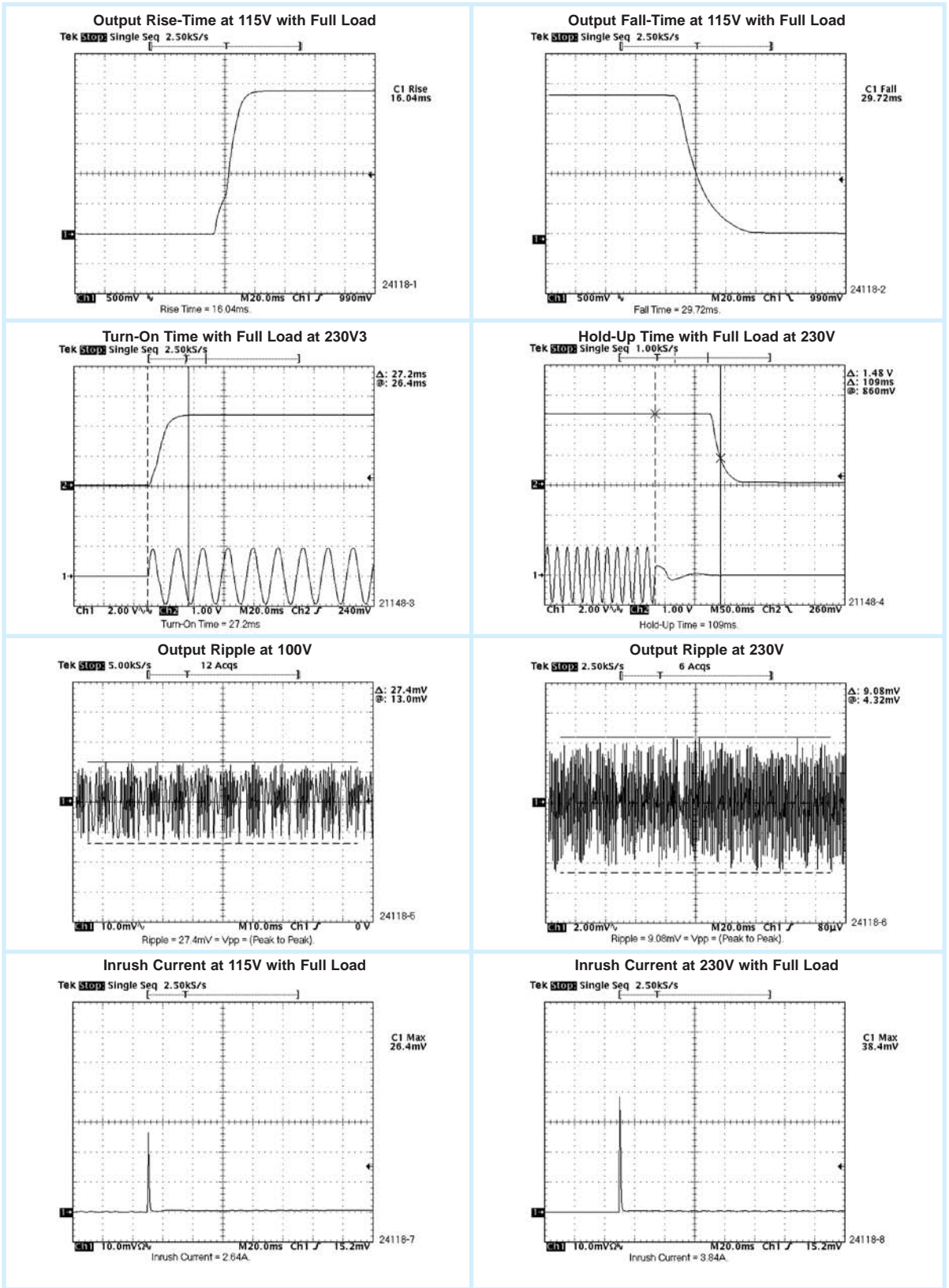


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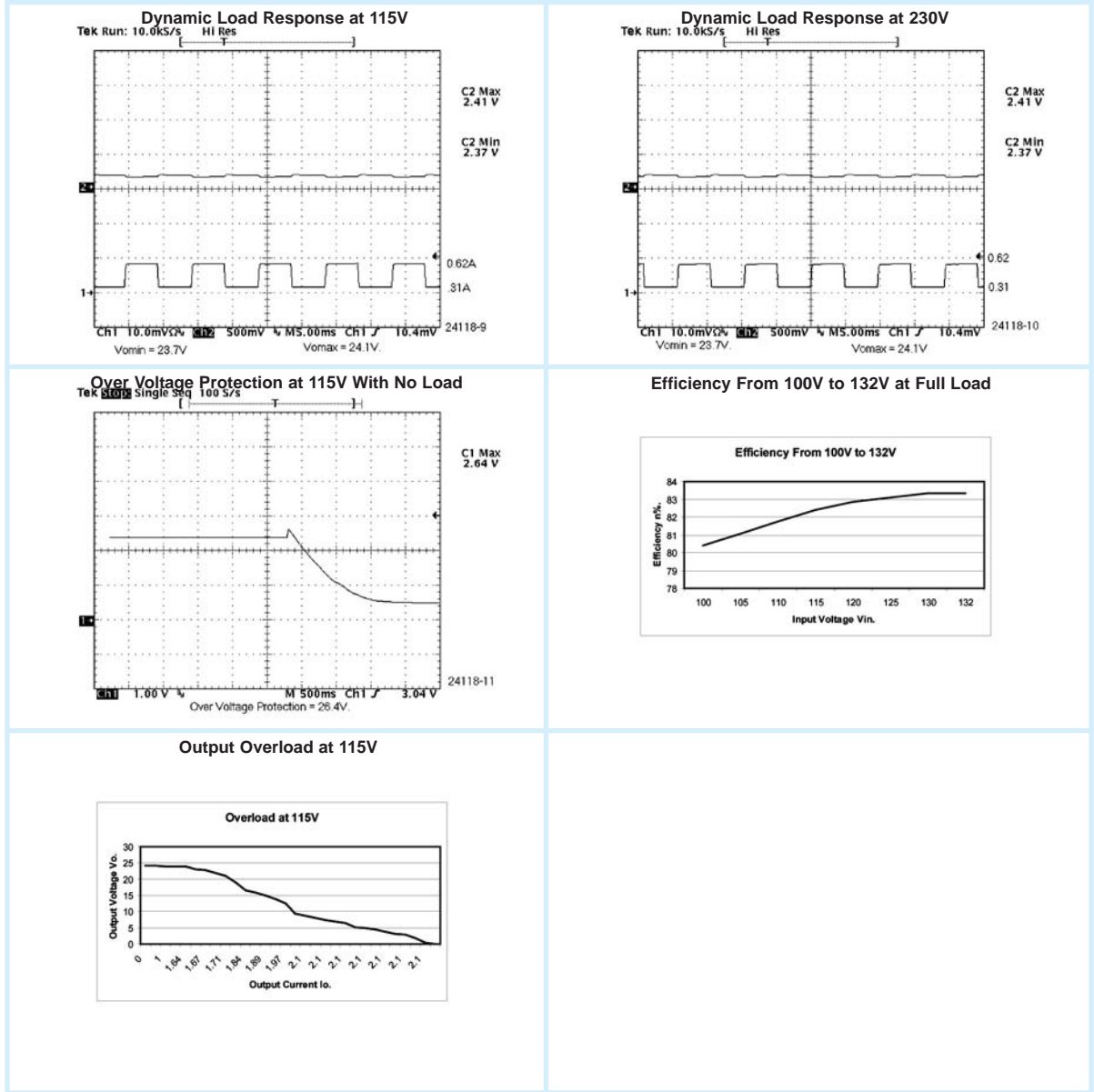


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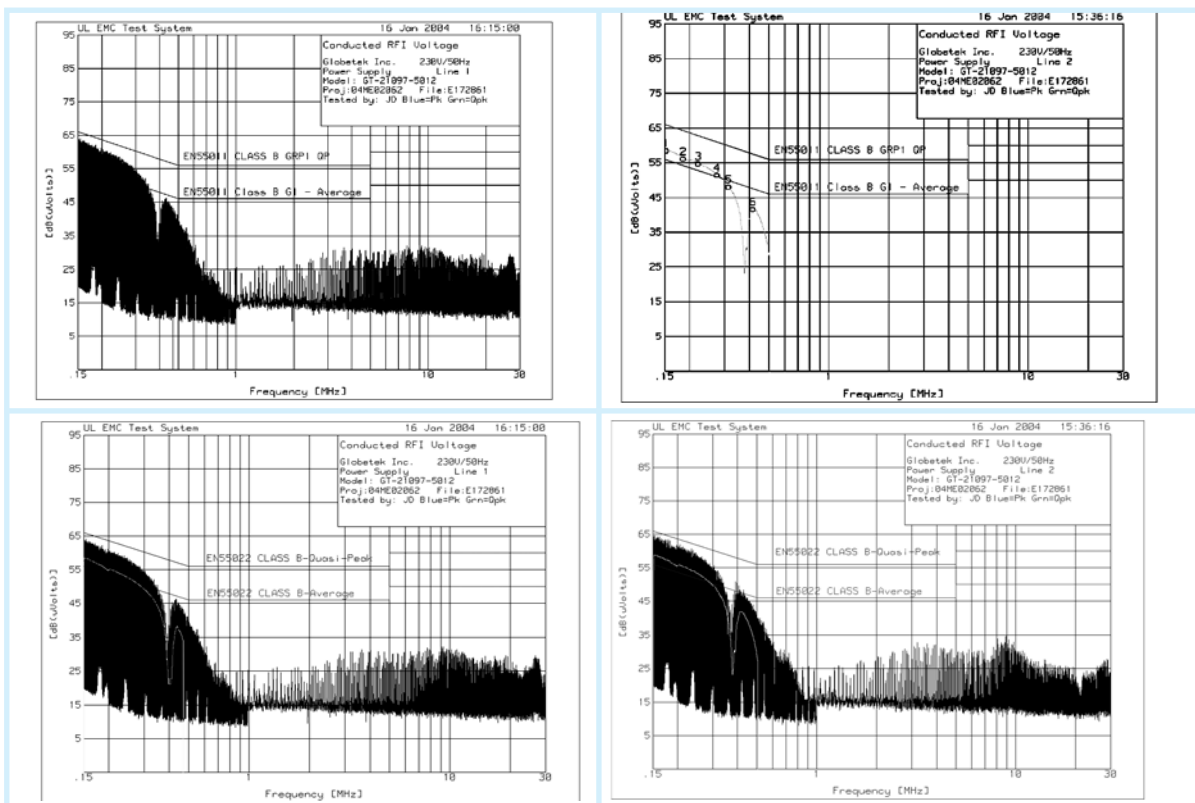
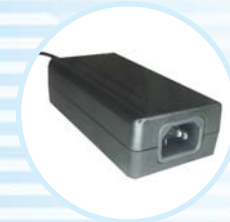
Electrical Performance Curves





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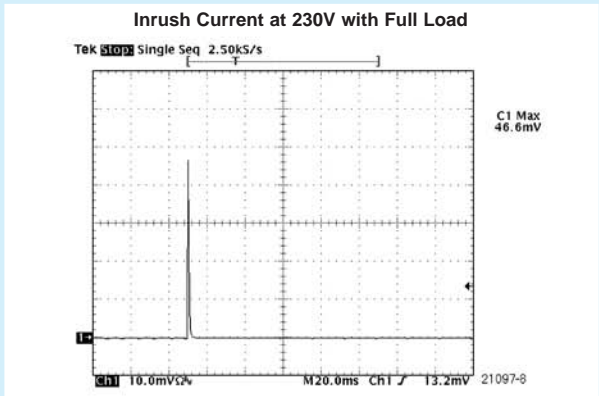
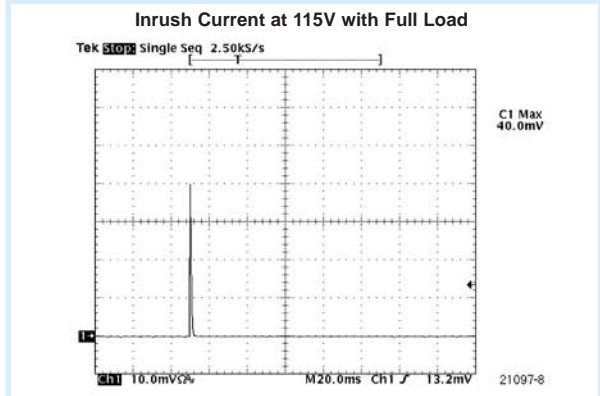
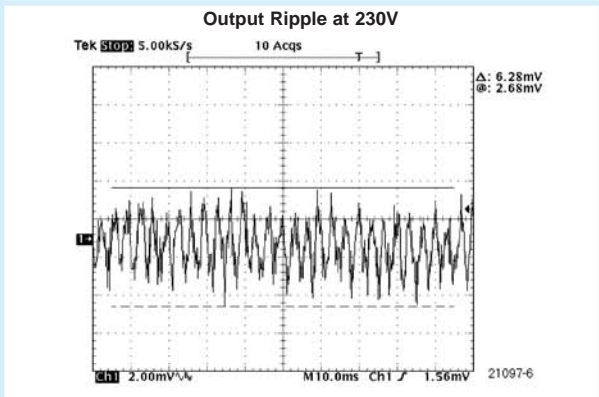
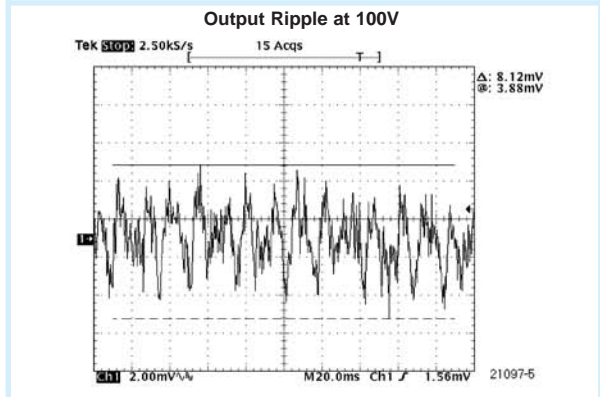
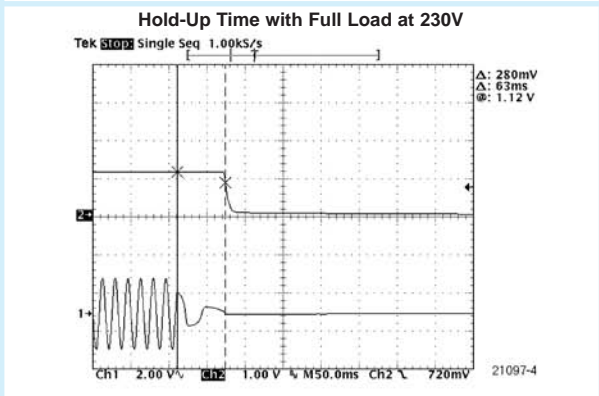
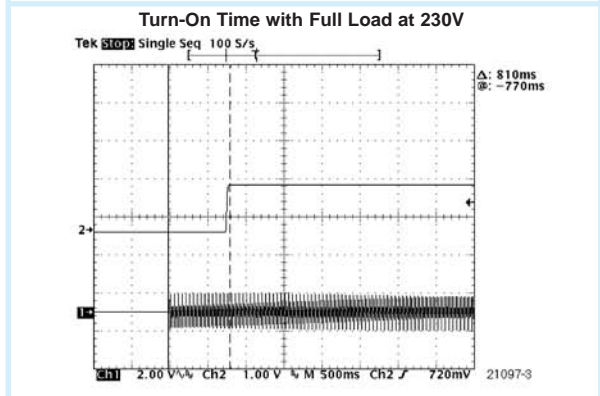
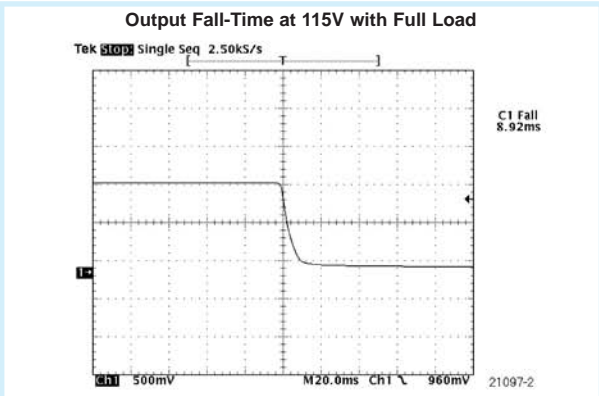
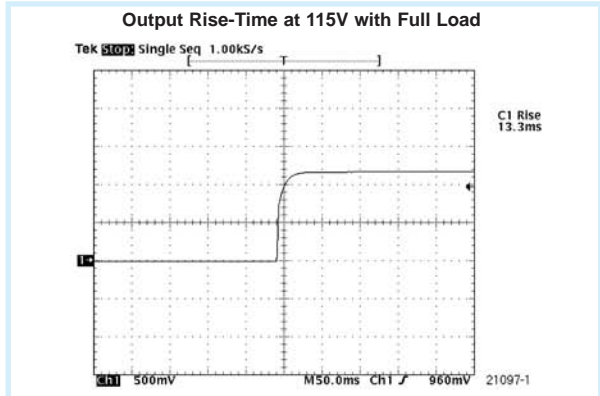


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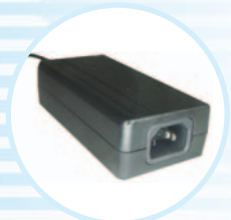


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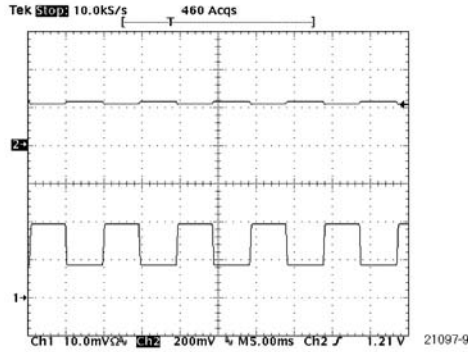


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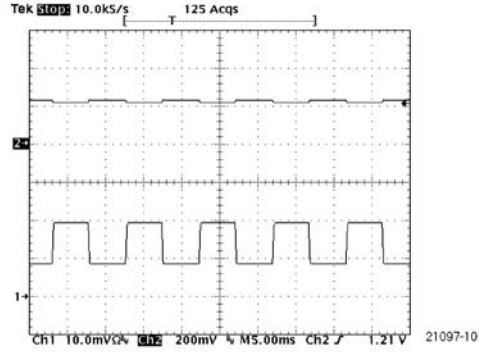
Electrical Performance Curves



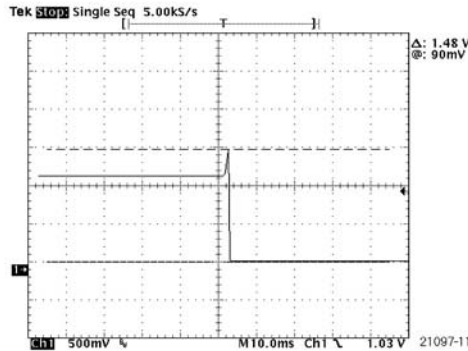
Dynamic Load Response at 115V



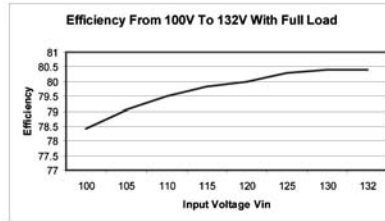
Dynamic Load Response at 230V



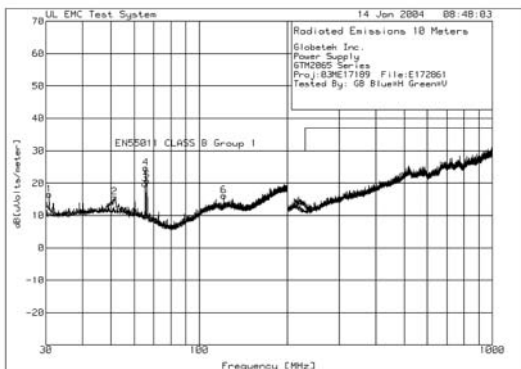
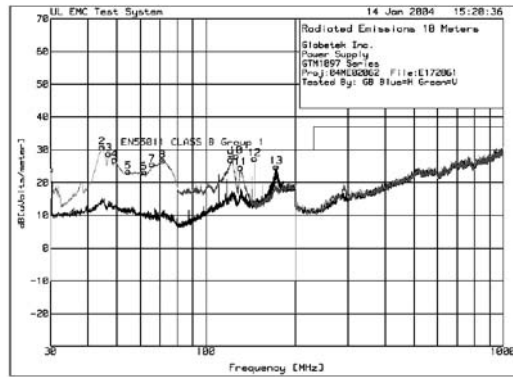
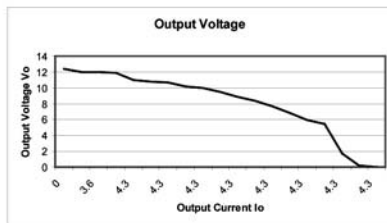
Over Voltage Protection at 115V With No Load



Efficiency From 100V to 132V at Full Load



Output Overload at 115V

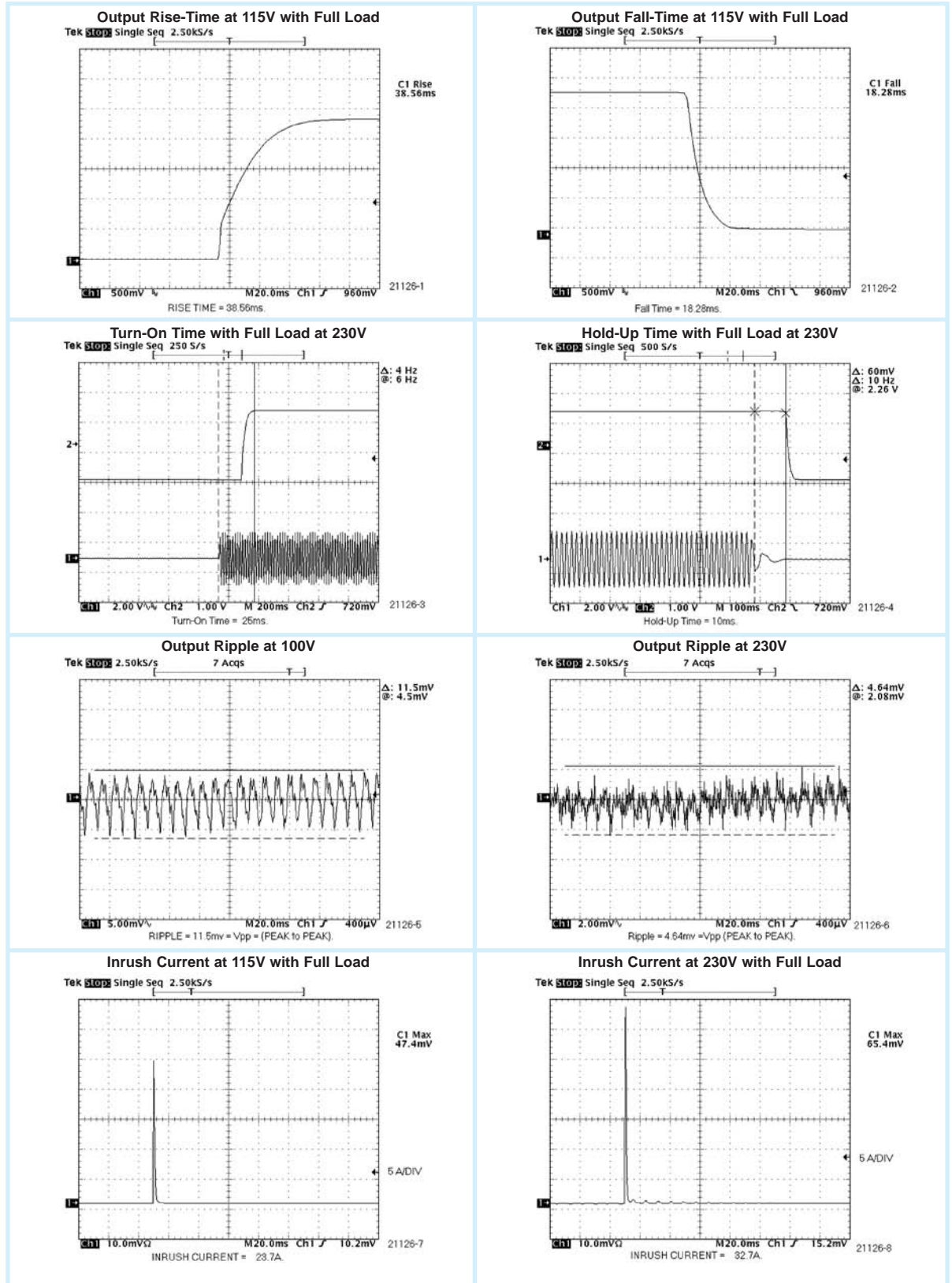


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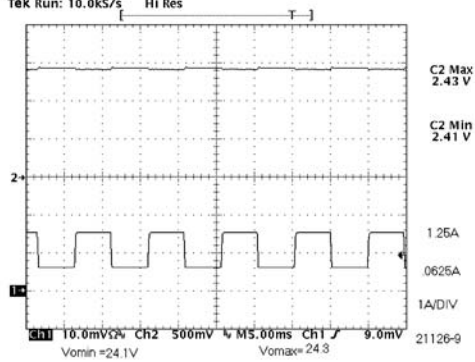


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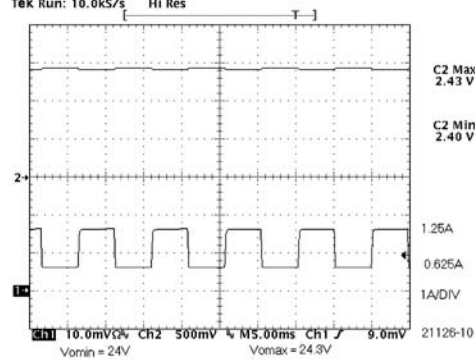
Electrical Performance Curves



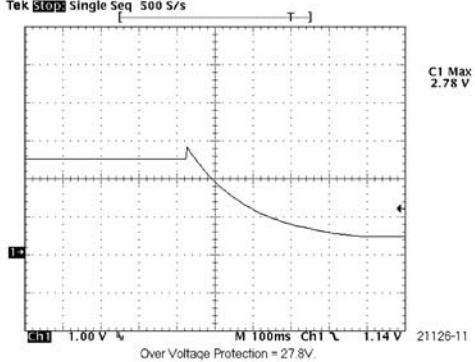
Dynamic Load Response at 115V



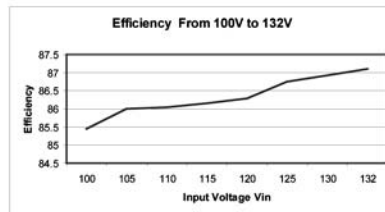
Dynamic Load Response at 230V



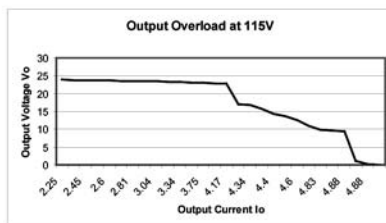
Over Voltage Protection at 115V With No Load



Efficiency From 100V to 132V at Full Load



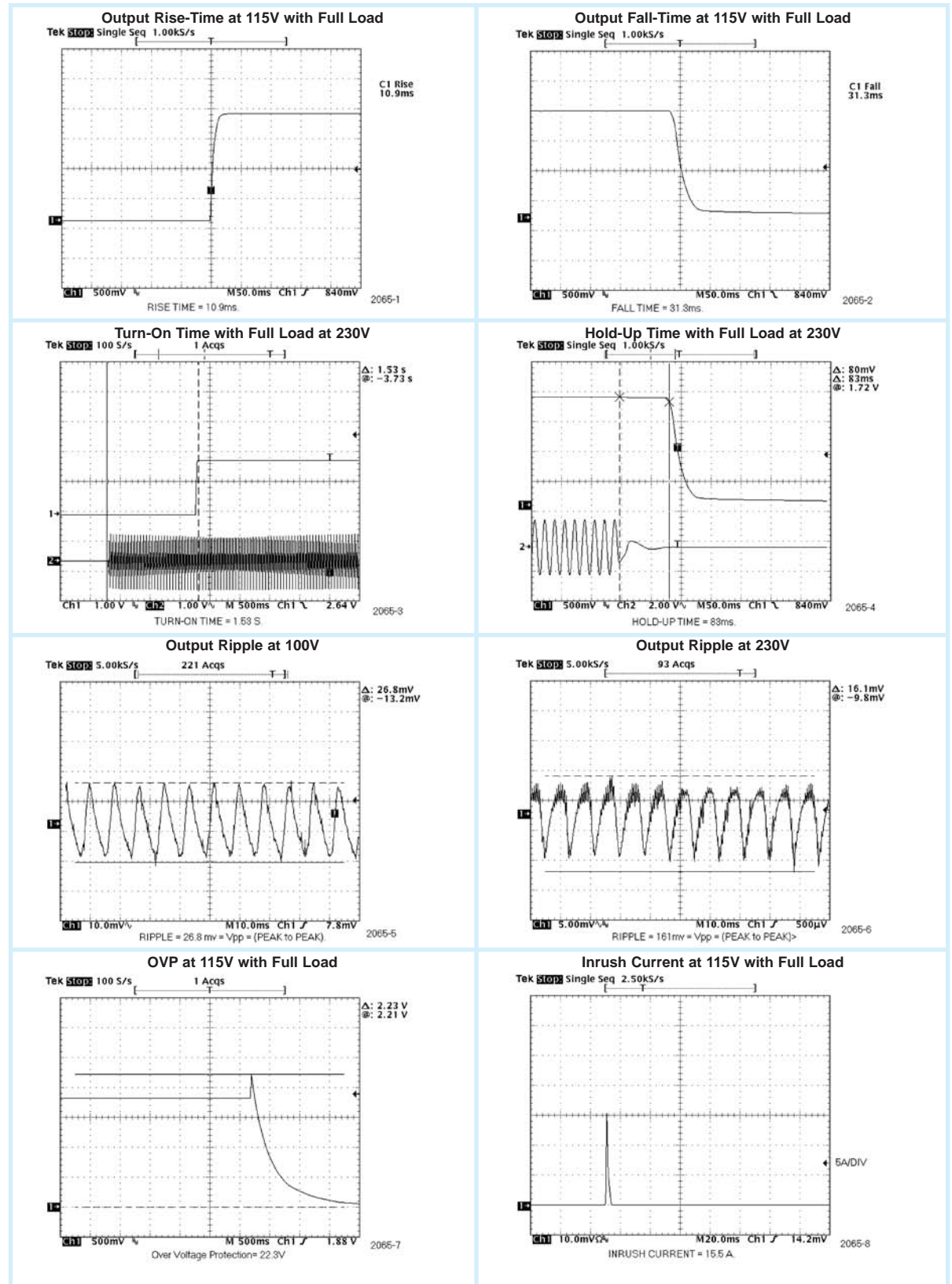
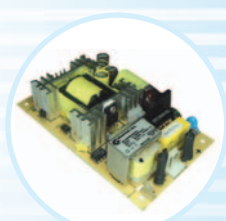
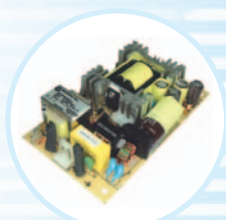
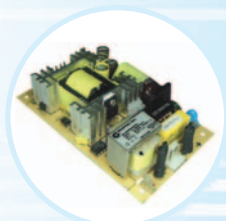
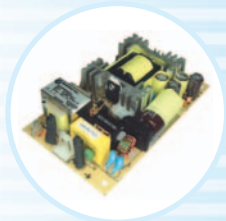
Output Overload at 115V





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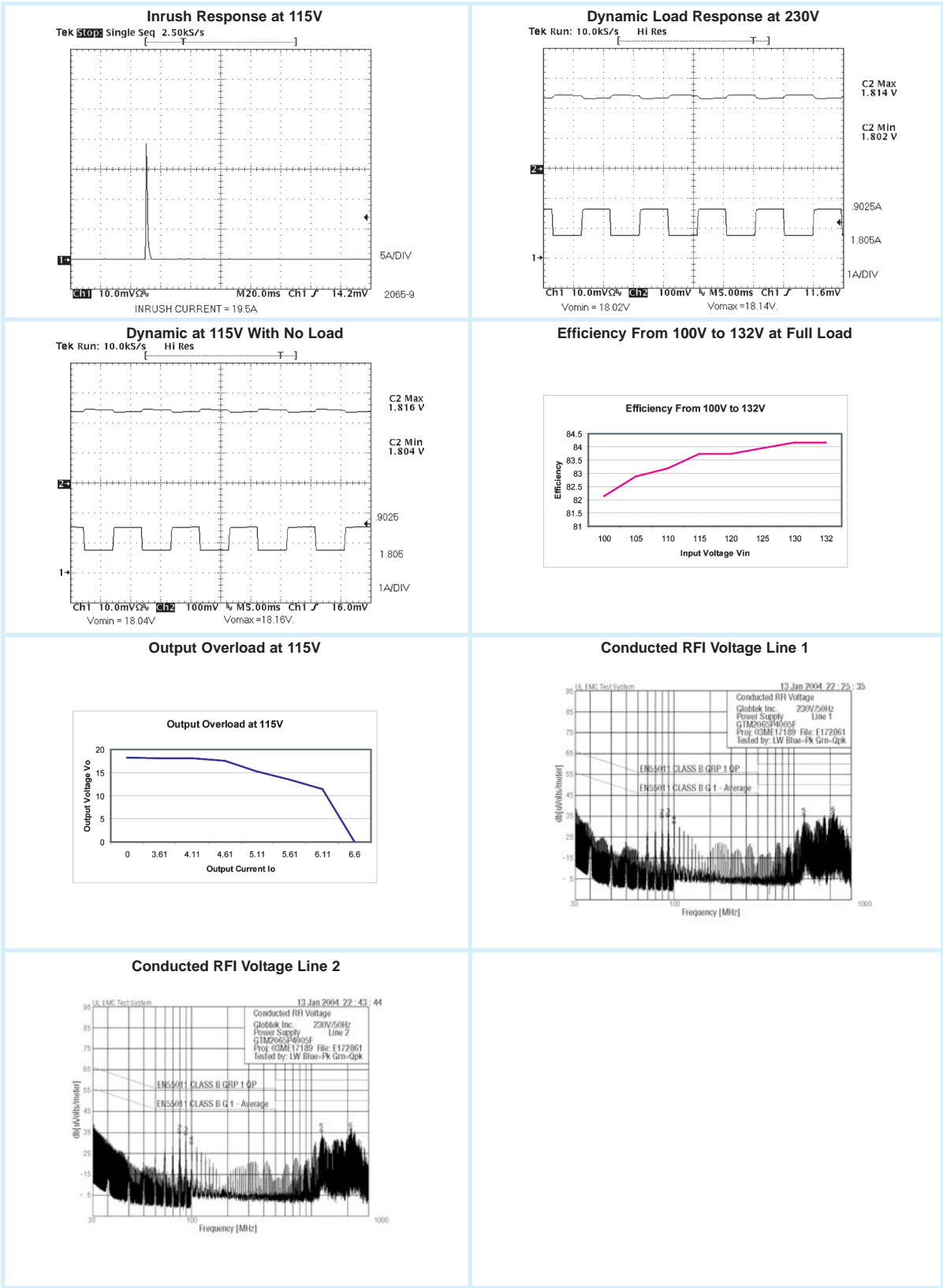
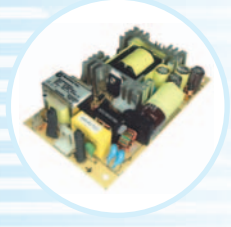
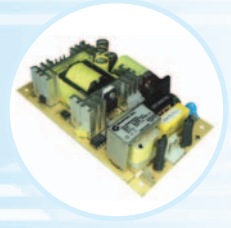
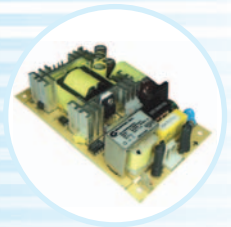


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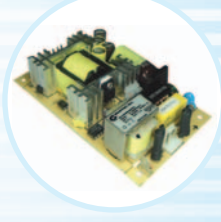
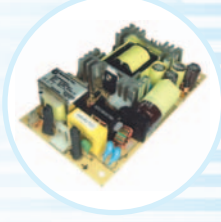
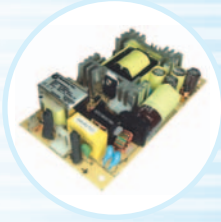
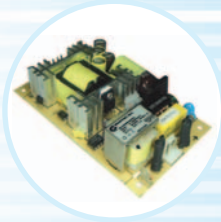
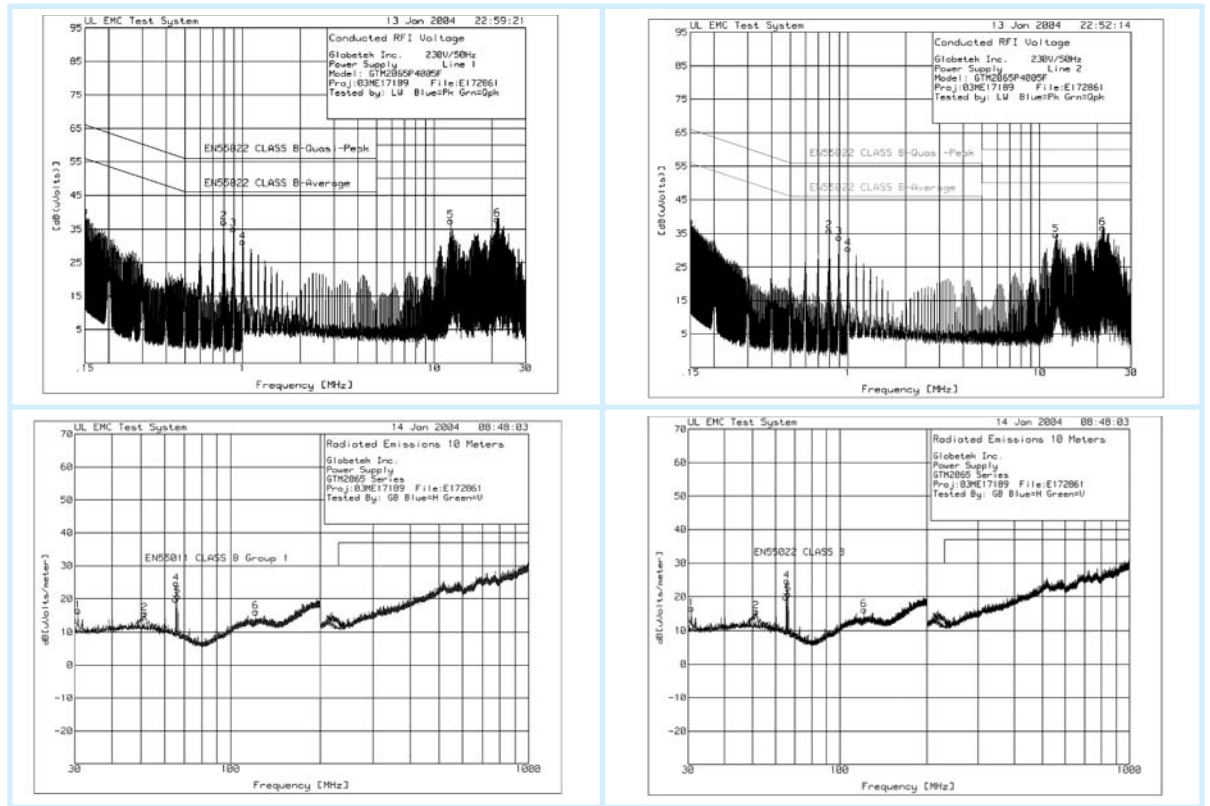


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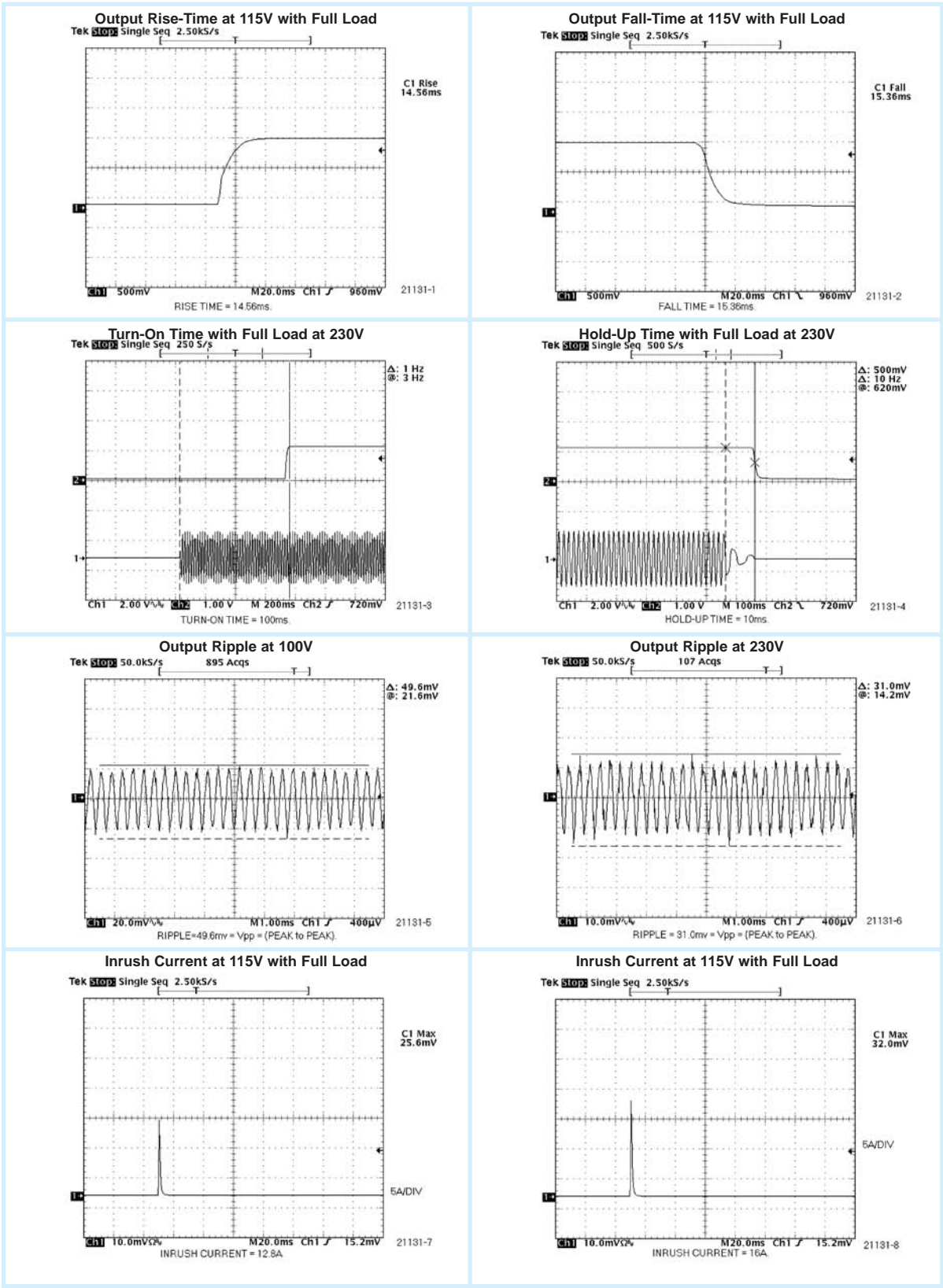
Electrical Performance Curves





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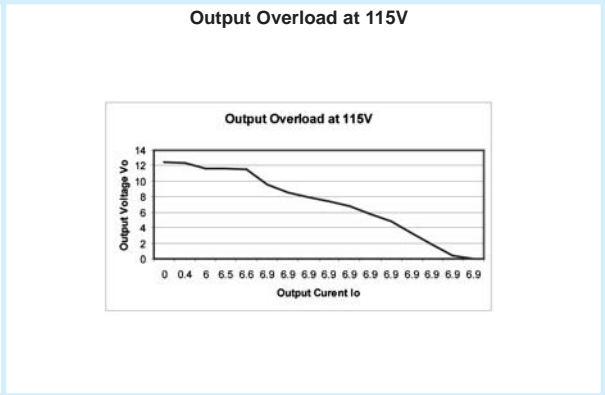
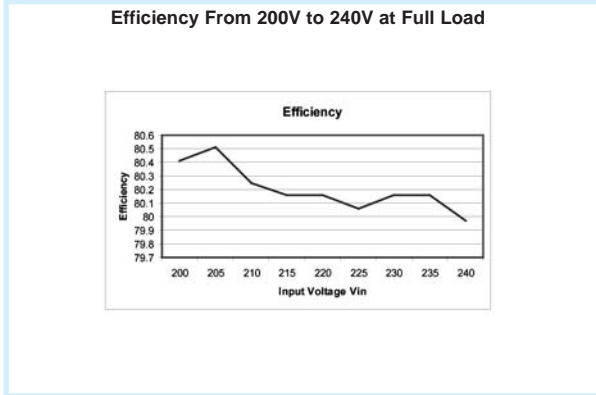
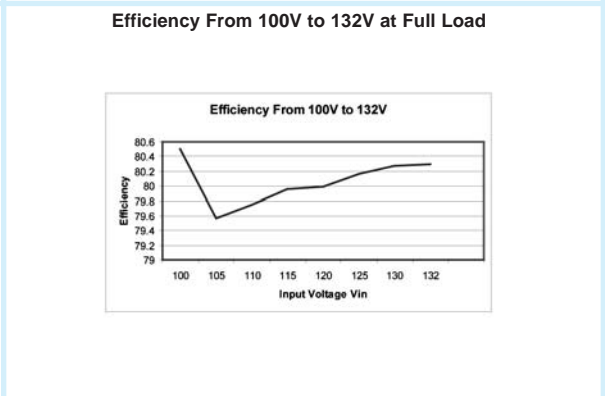
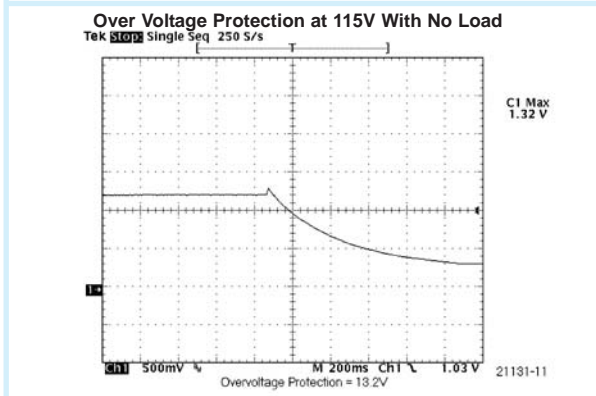
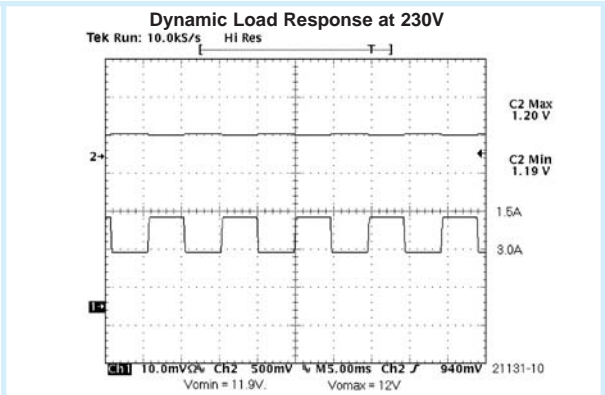
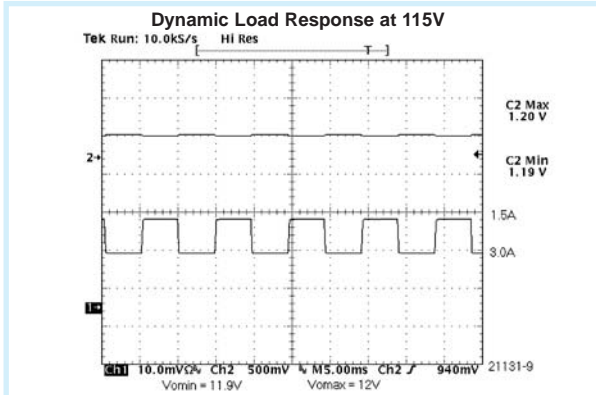


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Electrical Performance Curves





**A**

**Absolute Maximum Ratings** - Specifications that, if exceeded, could cause permanent damage to the converter. These are not continuous ratings, and proper operation is not implied.

**Adaptor** - External Power Supply, desktop or wall plug-in, linear unregulated or regulated.

**Aging** - operating a converter under controlled conditions for a predetermined time in order to screen out failures. Also see Burn-in.

**Ambient Temperature** - The room temperature, or effective temperature of the environment in which the power supply is operating.

**Auto-Parallel or automatic parallel operation** - A parallel connection of the outputs of two or more supplies used for obtaining a current output greater than that obtainable from one supply.

**Auto-Series or automatic series operation** - A series connection of the outputs of two or more power supplies used for obtaining a voltage greater than that obtainable from one supply.

**B**

**Basic Insulation** - According to international safety standards (eg. UL60950, EN60950) basic insulation provides basic protection against electric shock.

**Battery Backup** - Subsystem for electronic equipment that provides power in the event of input power loss.

**Breakdown Voltage** - The maximum AC or DC Voltage which may be applied from input to output and/or chassis of a power supply without causing damage.

**Burn-in** - Operation of manufactured converter for some period of time prior to shipment. The intent is to stabilize the converter and eliminate infant mortality by aging the device.

**C**

**CFM** - Cubic feet per minute, which is a measure of the volume of air flowing in a system.

**Canadian Standards Association (CSA)** - Independent organization that establishes and tests safety standards for electronic components and systems for the Canadian marketplace.

**Case** - See Enclosure.

**Case Temperature** - Temperature of the case when the converter and surrounding system are operating normally. Often used as a specification for converters with extended temperature ranges. Case temperature is at times referred to as Base Plate Temperature.

**Common** - Conductive path used as a return for two or more circuits. The term "common" is often used interchangeably with ground, which is not technically correct unless it is connected to earth. Also see Ground.

**Common Mode Noise** - Noise component that is common to both the converter out-put and return lines with respect to the input ground.

**Conducted EMI** - Also called radio frequency interference (RFI) EMI is unwanted high-frequency energy caused by the power transformers, rectifiers and other switching semiconductors. That portion that is present on the input and output lines is known as Conducted EMI. Most Conducted EMI measurements are done between 150KHz and 30MHz.

**Conduction Cooled** - Cooling a converter via a solid material. Cools a power converter by adding a heat sink or attaching a module to the system chassis or thermally conductive plastic enclosure.

**Constant Current Power Supply** - A regulated power supply which acts to keep its output current constant in spite of changes in load, line, or temperature. Thus, for a change in load resistance, the output current remains constant to a first approximation, while the output voltage changes by whatever amount necessary to accomplish this.

**Constant Voltage Power Supply** - A regulated power supply which acts to keep its output voltage constant in spite of changes in load, line, or temperature. Thus, for a change in load resistance, the output voltage of this type of supply remains constant to a first approximation, while the output current changes by whatever amount necessary to accomplish this.

**Constant Voltage/Constant Current (CV/CC) with automatic crossover** - A power supply which acts as a constant voltage source for comparatively large values of load resistance and as a constant current source for comparatively small values of load resistance. The automatic crossover or transition between these two modes of operation occurs at a "critical" or "crossover" value of load resistance.

**Constant Voltage/Current Limiting (CV/CL) with automatic crossover** - The same as CV/CC operation except for a slightly poorer regulation characteristic for low values of load resistance, i.e., in the "constant current" region of operation.

**Convection Cooled** - Cooling of the converter via the movement of air over the surface of its heat dissipating components. "Free-air convection" means that the natural movement of air (unassisted by fan or blower) is sufficient to maintain a converter within specified operating limits.

**Cross Regulation** - For a multiple output converter, the change in voltage on one output (expressed as a percent) caused by a load change on another output.

**Crowbar** - Circuit that crowbars or rapidly shuts down a converters output if a preset voltage level is exceeded. The circuit places a low resistant shunt across the output when an overvoltage condition exists.

**Current Limiting** - Feature that protects the converter (or load) from damage under overload conditions. The maximum converter output current is automatically limited to a predetermined, safe value. If the converter is specified for auto restart, normal operation is automatically restored when overload condition is removed.

**Current Limit Knee** - On a plot of output voltage vs current, the point at which current begins to limit (or foldback).

**D**

**Derating** - The specified reduction in an operating parameter to improve reliability. Generally for power supplies, it is the reduction in output power at elevated temperatures.

**Dielectric** - Material used to prevent two points in an electrical circuit from becoming conductively connected. Sometimes called a dielectric barrier.

**Dielectric Withstand Voltage** - Maximum voltage an insulating material can withstand before breaking down (suffering punch through or arcing). Also see Break Down Voltage and High Potential Test.

**Differential Mode Noise** - Noise component measured between two points with respect to a common point (minus common mode noise).

**Drift** - Change in the output voltage of a converter over a specified period of time. All other operating parameters (load, line, etc.) are assumed to be held constant. Often specified as starting after a warm-up period.

**Dynamic Load** - Output Load that changes Rapidly. Normally Specified as both a load change value and a rate of change.

**Dynamic Response** - Output overshoot that occurs when the converter output load is turned on/off or abruptly changed. This overshoot gives the high frequency output impedance of the converter. Also see Output impedance.

**E**

**Efficiency** - Ratio of total output to input power expressed as a percentage. Efficiency is normally measured at full rated output power and nominal input line conditions.



**Electromagnetic Interference (EMI)** - Noise generated by a converter (typically by the noise generators action of the adaptor.) Usually specified as meeting agency limits for conducted EMI (noise reflected back at the power bus) or radiated EMI (noise emitted into the area surrounding a converter).

**Electrostatic Discharge (ESD)** - Current produced by two objects having a static charge when they are brought close enough to produce an arc or discharge.

**Electrostatic Shield** - See Faraday Shield

**EMI Filter** - Filter placed at the input to a converter that minimizes the effect of EMI on the converter and the associated system.

**Enclosure** - Case or container used to package in small plastic or metal cases that protect the internal components from the outside environment and also improve thermal and noise performance.

**Equivalent Series Inductance (ESL)** - Inductance in series with an "ideal" capacitor. Sources include leads, terminals, electrodes etc.

**Equivalent Series Resistance (ESR)** - Resistance in series with an "ideal" capacitor. Sources include lead resistance, terminal losses, etc. An important specification for high frequency applications

## F

**Failure Mode** - Reason for which a converter either does not meet or stops meeting its specified parameters.

**Faraday Shield** - Electrostatic shield that reduces coupling capacitance in transformers. The shield, which effectively reduces output common mode noise, is placed between the primary and secondary windings of a transformer.

**Fault Mode Current** - Input Current drawn by a converter when the output is shorted.

**Federal Communications Commission (FCC)** - US government agency that sets standards for, and governs the testing of conducted and radiated emissions. These are system level standards, but they are typically used in specifying converters.

**Floating Output** - Converter output that is ungrounded and not referenced to another output. Typically, floating outputs are fully isolated and may be referenced positive or negative by the user. Outputs that are not floating share a common return and as such, are referenced to one another.

**Foldback Current Limiting** - Converter Protection Technique. The circuit is protected under overload conditions by reducing the output current as the load approaches short circuit. This minimizes internal power dissipation under short circuit conditions.

**Forced Air Cooling** - Use of a fan (or other air moving equipment) within a (sub) system to move air across heat producing components in order to reduce ambient temperature. Also called forced convection.

**Free Convection** - Operating environment where the natural movement of air (assisted by fans or blowers) maintains the power module within its operating limits. Also called natural convection.

**Front End** - A particular type of AC DC Converter (usually high power) used in Distributed Power Architecture (DPA) systems that provide the DC voltage that is bussed around the system. The bussed voltage is usually +24 VDC or 48 VDC.

**Full Load** - Maximum value of output load specified for converter under continuous operating conditions.

## G

**Ground** - Electrical connection that is made to earth (or to some conductor that is connected to earth). A converter common is not usually ground unless it is also connected to earth. Also see common

**Ground Loop** - Condition Caused when two or more ground system components share a common electrical ground line. A feedback loop is unintentionally induces, causing unwanted voltage levels.

## H

**Heat Sink** - Metal Plate, extrusion, case, etc. used to transfer heat away from sensitive components and or circuits.

**High Line** - Maximum value of input line voltage specified for normal converter operation.

**Hi-Pot Test** - High Potential Test. A test to determine if the breakdown voltage of a transformer or power supply exceeds the minimum requirement. It is performed by applying a high voltage between the two isolated test points.

**Hold-Up Time** - The time during which a power supplies output voltage remains within specification following the loss of input power.

**Hot Plug-In** - A common requirement in distributed power systems wherein the power board must be capable of being connected/disconnected from the power bus without damage. Power board components must be protected against the resultant high inrush currents.

## I

**Input Current** - Current drawn from the input power bus by a converter when operating under nominal conditions.

**Input Line Filter** - Low-pass or Band-reject filter on the converter input (internal or external) that attenuates noise introduced into the converter from the power bus.

**Input Transient** - Spike or step change in the input to the converter. Input transient protection circuits are used to shield sensitive components (such as the semiconductor switch) from possible damage due to transients.

**Input Voltage Range** - Minimum and maximum input voltage limits within which a converter operates to specifications.

**Inrush Current** - Maximum, instantaneous input current drawn by a converter during turn on. Also called input Surge Current.

**Inrush Current Limiting** - Protection circuit that limits the current a converter draws at turn on.

**Insulation** - Non-conductive material used to protect and separate electronic components or circuits.

**Insulation Resistance** - Resistance offered by an insulating material to current flow.

**International Power Dissipation** - Power dissipated (as heat) within the converter during normal operations. Primarily a function of the power handling capability and efficiency of the converter. Internal power dissipation is normally given as a maximum specification that cannot be exceeded without risking damage to the converter.

**International Electrotechnical Commission (IEC)** - Organization based in Switzerland that sets standards for electronic products and components. IEC does not conduct any testing; however, their standards have been adopted by many of the national safety/standards agencies.

**Isolation** - Electrical separation between the input and output of a converter. Normally determined by transformer characteristics and component spacing.

**Isolation Voltage** - Maximum voltage (AC or DC) that can be continuously applied between isolated circuits without a breakdown occurring. On converters, this is normally specified as input-output or input-case isolation. Minimum isolation voltage levels must be maintained to meet most safety regulations.

## L

**Leakage Current** - Current flowing from input to output or input to the enclosure of an isolated converter at a specified voltage level.

**Life Test** - Reliability test in which a converter is operated (typically under accelerated conditions) over some period of time in order to approximate its life expectancy.





**Line Regulation of a constant current power supply** - The change in the static value of DC output current resulting from a change in AC input voltage from low line to high line or from high line to low line.

**Line Regulation of a constant voltage power supply** - The change in the static value of DC output voltage resulting from a change in AC input voltage from low line to high line or from high line to low line.

**Linear Regulation** - Power supply regulation technique in which the regulating device (typically a transistor) is placed in series or parallel with the load. Voltage variations across the load are controlled by changing the effective resistance of the regulating device to dissipate unused power.

**Load** - Electronic components/circuits connected to the output pins of a converter. The characteristics (resistance, reactance, etc.) of the load determine the amount of power drawn from the converter.

**Load Decoupling** - Placement of filter components (typically uF capacitors) at the power terminals of the load in order to reduce noise.

**Load Regulation of a Constant Voltage Power Supply** - The change in the static value of DC output voltage resulting from a change in load resistance from short circuit to a value which yields maximum rated output current.

**Local Sensing** - Using the output terminals of the converter to provide feedback to voltage regulation circuits.

**Logic Inhibit/Enable** - Signal (typically TTL/CMOS compatible) used to turn a power supply output on/off. Also called Remote On/Off.

**Long Term Stability** - Change in output voltage of a converter over time with all other factors (line, load, temp., etc.) remaining constant. Expressed as a percent, the output change is primarily due to component aging.

**Low Line** - Minimum value of input line voltage specified for normal converter operation.

## M

**Master/Slave Operation** - Connection of two or more converters so one (master) controls the operation of the others (slaves). Master/slave configurations are used to provide higher output power, wider input voltage ranges, synchronized operation. Also see Auto - Parallel and Auto-Series Operations.

**Maximum Load** - Highest amount of output load allowable under the continuous operating specifications of a converter.

**Mean Time Between Failure (MTBF)** - Unit of measure, expressed in hours, that gives the relative reliability of a converter. MTBF data is based upon actual operating data (demonstrated) or derived per the conditions of MILHDBK-217F(calculated).

**Minimum Load** - Minimum amount of output load required on a converter in order to maintain normal continuous operating specifications.

**Minimum Operating Temperature** - Minimum ambient temperature at which a converter will start and operate within specifications.

## N

**N+1 Redundancy** - A paralleled power system configuration used in distributed power systems. Requires that at least one more current sharing converter module than is necessary be used to power a load. If one module fails the remaining will still supply the load current without interruption.

**No Load Voltage** - Voltage Level present at the output pins of a converter when 0% load is applied.

**Noise** - Unwanted variations in the converter output, normally called "Ripple and Noise" and given as a peak-to-peak value with a specified band width.

**Nominal Value** - Ideal value that is used as a reference point. Typically, it is not the same as the value actually measured.

## O

**Open-Circuit Voltage** - See No Load Voltage.

**Open Frame** - A type of power supply which is not encased in a metal or plastic shell or frame and subsequently is not covered with a potting compound. Open Frame converters are easily identified as their component parts are visible.

**Operating Temperature Range** - Range of temperatures over which a converter can be operated safely within specified limits. Normally specified as ambient, however, at times case or base plate temperature are also used.

**OTP: Over Temperature Protection** - A protection system for converters where the converter shuts down if the ambient temperature exceeds the converters ratings. OTP is intended to save the converter and any downstream equipment in the event of a catastrophic failure of a fan or such. OTP usually measures the hottest item on board the converter rather than ambient temperature.

**Output Current Limiting** - An output protection feature which limits the output current to a predetermined value in order to prevent damage to power supply or the load under overload conditions. The supply is automatically restored to normal operation following removal of the overload.

**Output Impedance of a power supply** - At any given frequency of load change,  $E_{OUT}/I_{OUT}$ . Strictly speaking the definition applies only for a sinusoidal load disturbance, unless, the measurement is made at zero frequency (DC). The output impedance of an ideal constant voltage power supply would be zero at all frequencies, while the output impedance for an ideal constant current power supply would be infinite at all frequencies.

**Output Voltage** - Value of DC voltage measured at the output terminal of a converter.

**Output Voltage Accuracy** - Maximum allowable deviation of the DC output of a converter from its ideal or nominal value. Expressed as a percentage of output value. Often called output voltage tolerance.

**Output Voltage Range** - Minimum and maximum output voltage limits within which a converter meets its operating specifications.

**Overload Protection** - An output protection feature which limits the output current of a power supply under overload conditions so that it will not be damaged.

**Overshoot** - Transient change in output voltage that exceeds specified accuracy limits. Typically occurs on converter turn on/off or with a step change in output load or input line.

**Overvoltage Protection (OVP)** - Output monitoring circuit activated if a preset voltage level is exceeded. Depending on the type of circuit used, the OVP shuts the converter down, "crowbars" the faulty output or switches the converter to a different operating mode.

## P

**Parallel Operation** - Operating mode in which two or more power supplies are connected in parallel. The output currents are summed together in a single load, providing a higher level of output power than that available from a single unit. Parallel operation requires models specifically designed to share loads. Also see Master-Slave Operation.

**Periodic and Random Deviation (PARD)** - Noise and ripple voltage superimposed on a converter's DC output. Typically specified at full load, it is expressed in peak-to-peak or RMS volts over a given bandwidth.

**Pi Filter** - Input filter consisting of two capacitors connected in parallel with a series inductance. Often used in converters to reduce input reflected ripple current.

**Polarity** - Ability of a converter to produce an output that is positive or negative referenced to ground. Also see Floating Output.

**Post Regulation** - Output circuit that uses linear regulator to improve line/load regulation and reduce ripple and noise. Post regulation adds expense and degrades converter supply efficiency.



**Power Density** - Ratio of converter output power to converter volume.

**Power Factor Correction** - Design technique usually applied to the input of converters that improves the converter's power factor and minimizes harmonics generated by the converter onto the AC power line.

**Power Good** - Signal (typically a visible LED) that indicates the DC output of the primary channel of a converter is still present.

**Power Rating** - Specified power available at the converter output pins.

**Pre-Regulation** - The regulation at the front end of a power supply, generally by a type of switching regulator. This is followed by output regulation, usually by a linear type regulator.

**Primary Circuit** - Input side of an isolated converter. See secondary circuit.

**Programmable power Supply** - A power supply with an output controlled by an external resistor, voltage or digital code.

## R

**Radiated EMI** - Also called radio frequency interference (RFI), EMI is unwanted high frequency energy caused by the noise generators of the adaptors. That portion that is radiated through space is known as radiated EMI. Most radiated EMI measurements are done between 30MHz and 300MHz.

**Rated Output Current** - Maximum output current that can be continuously drawn from a converter under specified conditions.

**Redundant Operation** - Parallel configuration of converters used in distributed power system to increase system reliability. Converters may be used in a "N+1" architecture.

**Reference** - The stable voltage, generally a Zener diode, from which the output voltage of a regulated supply is controlled.

**Regulation** - Ability of a converter to maintain an output voltage to within specified limits under varying conditions of input line and output load. Also see Linear Regulation.

**Remote Error Sensing or Remote Sensing** - A feature found on power supplies, which, by means of two extra wires between the supply and the load, permits the power supply to achieve its optimum regulation at the load terminals rather than at the power supply output terminals, thus compensating for the IR drop present in the current carrying leads connecting the load to its power supply. The current through the sensing leads is so small that in spite of the resistance of these leads, their voltage drop is negligible.

**Remote Programming** - A feature of some power supplies which permits control of the regulated output current or voltage by means of a remotely varied resistance or voltage.

**Remote Programming Speed** - The time (in microseconds) required for the output voltage to change from zero volts to within "X" millivolts of the maximum rated output or from the maximum rated output to within "X" millivolts of zero. "X" is specified separately for each model, generally of the same order as the load regulation specification.

**Remote Shutdown** - See Logic Inhibit/ Enable

**Resolution** - For an adjustable supply, the smallest change in output voltage that can be realized by the adjustment.

**Return** - The name for the common terminal of the output of a power supply; it carries the return current for the outputs.

**Reverse Voltage Protection** - Converter feature that prevents damage to internal components if a reverse voltage is inadvertently applied to the input or output terminals.

**Ripple and Noise** - The residual AC component which is superimposed on the DC output of a power supply. Ripple and noise may be specified in terms of its RMS or (preferably) peak-to-peak value. When the peak-to-peak value is specified, it should be accompanied by the maximum bandwidth of the measuring instrument, typically DC to 20 MHz. Measuring ripple and noise with an instrument that has insufficient bandwidth may conceal high frequency spikes detrimental to the load.

## S

**Secondary Circuit** - Output side of an isolated DC-DC converter. Also see primary circuit.

**Sense Line** - Output line used in a remote sensing connection to route the output voltage (at the load) back to the control feedback loop. Also the Remote Sensing.

**Series Operation** - Master-slave configuration in which two or more isolated converters are connected to obtain a higher output voltage level (converter inputs connected in parallel) or wider input voltage range (converter inputs connected in series) than that obtainable from one module. Also see Master-Slave Operation.

**Series Regulator** - Linear regulator (internal or external to the converter) placed in series with the load to achieve a constant voltage across the load. This is the most popular method of linear regulation. Also see Linear Regulation, Post Regulation and Shunt Regulator.

**Short Circuit Protection** - See Current Limit and Foldback Current Limit.

**Shunt Regulator** - Linear regulator (internal or external to the converter) placed in parallel with the load to achieve a constant voltage across the load. Also see Linear Regulation, Post Regulation and Series Regulator.

**Six-Sided Shielding** - Converter packaging technique in which the unit is placed into a metal case. The metal shielding minimizes any noise radiation from the converter components. A continuous shielded case has the base (or header) welded on, further reducing potential noise leakage.

**Soft Start** - Converter input circuit that limits the inrush current at turn on.

**Split Bobbin Winding** - The method of winding a transformer whereby the primary and secondary are wound side-by-side on a bobbin with an insulation barrier between the two windings.

**Stability** - This term refers to the instability in power supply output which occurs in the presence of constant load, constant line and constant ambient temperature for a stated period of time (usually 8 hrs.) following warm-up. This small output variation which is related in part to the internal temperature rise of the power supply, is the zero frequency component of noise which must be present in any DC amplifier or regulator, even though all input, output, environmental and control parameters are held constant.

**Standby Current** - Current drawn by a converter when it has no load and has been shut down by a logic inhibit signal.

**Step Change** - Sudden change in a converter parameter. Typically used in referring to changes in output load or input line during converter testing.

**Storage Temperature Range** - Range of ambient temperatures over which a converter can be safely stored.

## T

**Technischer Überwachungs-Verein (TUV)** - Organization approved for testing products to VDE standards. US-based companies often use TUV in place of VDE because they have established facilities in the US.

**Temperature Coefficient** - For a power supply operated at a constant load and under conditions of constant input AC line voltage, the change in output voltage (for a constant voltage supply) for each degree change in the ambient temperature.

**Temperature Range** - See Operating Temperature Range and Storage Temperature Range.

**Thermal Conductivity** - Given materials ability to conduct heat, this is the time rate for heat transfer (via conduction) across a unit material thickness of 1 meter and when the temperature differential of the two opposite faces is 1 deg. K.

**Thermal Gasket** - Flexible pad or wafer with a very low thermal resistance that is put between a power module base plate and heat sink to ensure the high thermal conductivity across the junction.



**Thermal Joint Compound** - A fluid or paste spread between the mating surfaces of a power device baseplate and a heat sink or system chassis.

**Thermal Protection** - Feature that shuts the converter down if the internal temperature exceeds the preset limits. Also called thermal shutdown.

**Thermal Resistance** - Measure of a given materials opposition to the flow of heat.

**Thermal Resistivity** - Measure of a materials ability to impede the flow of heat. Typically given in °C T/W, where T is the material thickness and W is the power flowing through the material in watts.

**Three-Terminal Regulator** - Regulator packaged in a standard 3-terminal transistor package. These devices can be a switching type or a linear shunt or series regulator.

**Topology** - This refers to the way in which the power handling part of a power supply is configured. Choice of topology influences many of the basic characteristics of a converter.

**Tracking** - For a multiple output converter the parameter that gives the change in one output voltage caused by a change in the voltage level or load on another output.

**Transient** - Spike or step change in converter parameter. Commonly used in describing input line and output load characteristics.

**Transient Recovery Time** - Sometimes referred to as recovery time, transient response time or response time. Loosely speaking, the time required for the output voltage of a power supply to come back to within a level approximating the normal DC output following a sudden change in load current. More exactly, Transient recovery time is the time "X" required for output voltage recovery to within "Y" millivolts of the nominal output voltage following a "Z" amp step change in load current where:1) "Y" is specified separately for each model but is generally of the same order as the load regulation specification.2) The nominal output voltage is defined as the DC level halfway between the static output voltage before and after the imposed load change.3) "Z" is the specified load current change, normally equal to the full load current rating of the supply.

## U

**Underwriters Laboratories (UL)** - Independent Organization that conducts safety testing of products to established standards.

**Undershoot** - Transient change in a converter output voltage that does not meet the lower limit of the voltage accuracy specification. Typically occurs at converter turn on/off or with some step change in output load or input line. Also see Voltage Accuracy.

**Uninterruptible Power Supply (UPS)** - Power supply that will continue to operate after the loss of AC input power.

**UVLO-Under Voltage Lock Out** - A protection system for power converters where the converter is deliberately shut down if the input voltage drops below a pre-defined level. Some hysteresis is usually present to prevent the converter from oscillating on and off. UVLO is usually needed with battery systems where the voltage decreases gradually with time rather than snaps off quickly.

## V

**Verband Deutscher Elektrotechniker (VDE)** - German organization that sets standards for product safety and noise emissions and tests and certifies products to those standards.

**Voltage Balance** - For multiple output converter, the percentage difference in voltage level of two outputs with opposite polarities and equal nominal values.

## W

**Warmup Drift** - See Drift.

**Warmup Time** - Time Required for a converter to operate within specifications after turn-on. This time normally precedes a long-term drift specification.

**Withstand Voltage** - Maximum voltage level that can be applied between circuits or components without causing a breakdown. Also see Breakdown Voltage and Isolation.

















ISO 9001:2000  
REGISTERED

## PART NUMBER ORDERING SYSTEM

- 1) CATALOG CONTAINS "MODEL NUMBER" WHICH REPRESENTS THE BASE "DESIGN" AND SHOULD BE USED FOR AGENCY SUBMITTALS.  
2) PART NUMBER IS INCLUSIVE OF ALL PARAMETERS INCLUDING MODEL, COLOR, LABELING AND PACKAGING.

				<b>T</b> Table <b>W</b> Wall <b>P</b> PCB <b>D</b> DC/DC	<b>A-Type</b>	<input type="checkbox"/>	<b>W</b>			
				<b>A</b> AC <b>D</b> DC <b>R</b> Regulated	<b>B- Output</b>	<input type="checkbox"/>	<b>D</b>			
- 120V 60 Hz <b>1</b> 220V 50 Hz <b>2</b> 230V 50 Hz <b>3</b> 240V 50 Hz <b>4</b> 100V 50/60 Hz <b>5</b> 100/120V 50/60 Hz <b>6</b> 12V DC <b>7</b> 220/240 50 Hz <b>8</b> 115/230V 50/60 Hz <b>9</b> 100/240V 50/60 Hz <b>I</b> 24 VDC <b>X</b> 48 VDC	<b>1</b> Nema 1-15P (N American Class II) <b>2</b> Nema 5-15P (N American Class I) <b>3</b> Europlug (Euro Class II) <b>4</b> Schuko Plug (Euro Class I) <b>5</b> British (Class I or II) <b>6</b> S.Africa (Class I or II) <b>7</b> Australia 2 Pin (Class II) <b>8</b> Australia 3 Pin (Class I) <b>9</b> Japan 2 Pin (Class II) <b>A</b> Japan 3 Pin (Class I)	<b>B</b> Israel 3 Pin (Class I) <b>C</b> IEC320 C14 (Class I) <b>D</b> US Cable (Class I or II) <b>E</b> Euro Cable (Class I or II) <b>F</b> Med 5-15P (Class I) <b>G</b> Header <b>J</b> Cigarette Lighter Plug <b>K</b> IEC320 C8 (Class II) <b>L</b> IEC320 C6 (Class I) <b>T</b> Terminal (DC) <b>S</b> Strip+TIN (Class I or II)	<b>P</b> 1 V <b>L</b> 2 V <b>Q</b> 3 V <b>A</b> 5 V <b>B</b> 6 V <b>C</b> 7 V <b>K</b> 8 V <b>D</b> 9 V <b>U</b> 10 V <b>F</b> 11 V <b>E</b> 12 V <b>N</b> 13 V <b>J</b> 13.8 V	<b>G</b> 15 V <b>T</b> 16 V <b>H</b> 18 V <b>Z</b> 20 V <b>I</b> 24 V <b>R</b> 28 V <b>Y</b> 36 V <b>X</b> 48 V <b>M</b> 5, 12 V <b>V</b> 5, +12, -12 V <b>W</b> 5, +15, -15 V	<b>C- Input Voltage (optional)</b>	<input type="checkbox"/>	<b>1</b>			
					<b>D- I/P Connector</b>	<input type="checkbox"/>	<b>3</b>			
					<b>E- O/P Voltage</b>	<input type="checkbox"/>	<b>D</b>			
					<b>F- O/P Current in mA</b>	<input type="checkbox"/>	<b>1</b>			
					<b>G- O/P Current in mA</b>	<input type="checkbox"/>	<b>0</b>			
					<b>H- O/P Current in mA</b>	<input type="checkbox"/>	<b>0</b>			
					<b>I- O/P Current in mA</b>	<input type="checkbox"/>	<b>0</b>			
					<b>J- O/P Connector</b>	<input type="checkbox"/>	<b>L</b>			
				<b>A</b> Strip & Tin <b>B</b> FB 5.0x2.5x11 <b>C</b> FB 5.5x2.1x11 <b>D</b> Molex <b>E</b> FB 5.0x2.1x11 <b>F</b> F-Type Male <b>G</b> DIN Female <b>J</b> Screw Term <b>K</b> FB 3.5x1.3x11	<b>L</b> FB 5.5x2.5x11 <b>N</b> DIN Male <b>P</b> Plug 3.5x14 <b>S</b> Plug 2.5x11 <b>X</b> Cig Lighter <b>M</b> Mini Din <b>R</b> Molex Mini Fit <b>Y</b> Kycon Type	<b>A to Z</b> Diff <b>C</b> Center <b>0 to 9</b> Diff <b>L</b> Locking <b>R</b> Right Angle <b>H</b> High Retention <b>S</b> Shielded <b>F</b> Ferite	<b>P</b> Positive <b>N</b> Negative	<b>K- Differentiator</b>	<input type="checkbox"/>	<b>C</b>
					<b>L- Polarity/ Diff</b>	<input type="checkbox"/>	<b>P</b>			
					<b>-</b>	<input type="checkbox"/>	<b>-</b>			
					<b>M- Internal Code</b>	<input type="checkbox"/>	<b>X</b>			
				<b>Custom Code</b>	<b>N-</b>	<input type="checkbox"/>	<b>M</b>			
				<b>MED</b> Med Approved	<b>O-</b>	<input type="checkbox"/>	<b>E</b>			
				<b>CC</b> Constant Current Charger	<b>P-</b>	<input type="checkbox"/>	<b>D</b>			



Thank you for your interest in our products. We look forward to speaking with you personally.  
 We can be reached by e-mail at sales@globtek.com, by phone at +1.201.784.1000 or by fax +1.201.784.0111.  
 Please complete as many fields of information as possible.

Name:

Company Name:

Address:

City:  State:  Zip:

Telephone:  Fax:  Email:

**PART NUMBER:**

Please describe as much as possible.

**PACKAGE:**  wall-mount  desk-top  open frame  pcb  metal enclosure

**INPUT VOLTAGE:**  120VAC 60Hz  220-240VAC 50Hz  90-130VAC 47-63Hz  90-264VAC 47-63Hz

**INPUT CONNECTION:**  US/Canada Japan  Europe Turret  Europe Shucko  U.K.  Australia

IEC 320 (C14) 3 conductor  IEC 320 (C8) 2 conductor

**GROUND REQUIRED:**  yes  no

**OUTPUT VOLTAGE:**  AC  DC  linear  switchmode

Complete as many options as necessary

#1 Output Voltage	<input type="text"/>	#1 Output Current	<input type="text"/>	(A)
#2 Output Voltage	<input type="text"/>	#2 Output Current	<input type="text"/>	(A)
#3 Output Voltage	<input type="text"/>	#3 Output Current	<input type="text"/>	(A)
#4 Output Voltage	<input type="text"/>	#4 Output Current	<input type="text"/>	(A)

**SAFETY APPROVALS:**  UL  CSA or cUL  TUV/GS  JIS (T-Mark)  CE Mark

other, specify

**OUTPUT CONNECTOR:** (See plug options):

**QUANTITY:** Select the production quantities you would like quoted.

1,000  5,000  10,000  25,000  50,000  100,000

OTHER:

**SAMPLES:** Will samples be required for test production?

YES  NO WHEN? (i.e. MM/DD/YY)  QUANTITY?

**PRODUCTION:** When would you take first delivery? (i.e. MM/DD/YY)

**QUOTE QTY'S:**  **TARGET \$**

**APPLICATION:** Complete as many options as possible

USE: In what market will the finished product be used?

computer hardware  CAD/CAM  office/business  machines  communication

industrial/manufacturing-equipment  medical  avionics space/military  automotive  consumer electronics/appliances

OTHER MARKET:

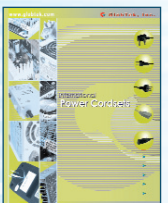
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