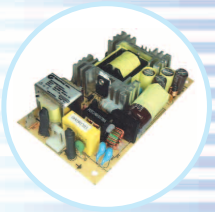
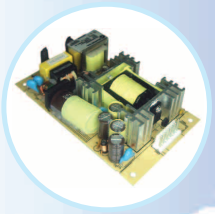
GlobTek

ISO 9001
REGISTERED

Class 2 Power Unit, 100Watt Max, Single Output Family DeskTop,Open - Frame / PCB Mount, N.A. Input, Class I & II

FOR INDOOR USE ONLY





GENERAL SPECIFICATIONS

Electrical Specifications:

Input Voltage/ Line Frequency:
Universal 90VAC to 264VAC, 47Hz-63Hz, for All Models.
Input Current:
Less than 2 Amps

Output Voltage:
Single-Output Units: 3.0V up to 48V in 0.1V increments. Multi-Output Units: Dual, Triple and Triple-Low for 100W Series. See Rating Table.
Rated Output Power:
See Rating Table. Watts rating for informational purposes, only. May or may not be provided on label.
Output Current:
Single-Output Units: No Load to Full Load, No minimum load required; Multi-Output Units: 10% Min. Load required on Main Output to maintain specified regulation. Each output current can vary within its designated range, as long as the rated output power is not exceeded.
Output Ripple & Noise (Peak to Peak):
1% or 100mVmax., whichever is smaller; except for +3.3V out. Models which are 50mVmax; 20MHz measurement bandwidth.
Output Regulation (Line/Load):
Single-Output Units: ±5% (including cord), measured at the end of output connector; Multi-Output Units: ±5% for Main Output, ±5% for Second Output and ±10% for Third Output (including cord) measured at the end of output connector; for selection please refer to Adaptor Output Plug/Cord options.

Remote Sense (Option):
Provides Regulation within ±2% of nominal voltage of Main Output. For 3.3V Single-Output or 3.3V Main of Multi-Output Models, Remote Sensing is required.
Temperature Coefficient:
±0.04%/°C typical.
Turn-On/ Turn-Off Overshoot:
5%max. for All Models.
Transient response:
0.5msec. for 50% load change, typical.

Turn-On Delay:
0.5 seconds maximum for All Models.

Hold-Up Time:
20msec.min. at nominal input line (120VAC) for All Models.

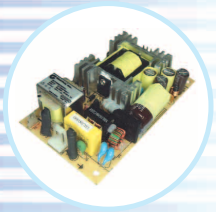
Inrush Current:
Less than 20Amps.peak for North American/Japan Models; Less than 40Amps.peak for Euro./U.K./Australia and Universal Models at Cold Start.

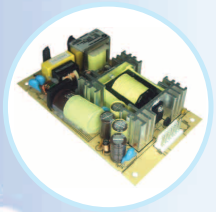
Efficiency:
75% typical at Full Load; 85% typ. for 100 Watts Series.

Topology:
Off-Line Isolated Flyback Converter.

Switching Frequency:
100KHz typical.

Over-Voltage Protection:
Basic Protection limits the Output Voltage below 130% of the nominal voltage. Other Options: A) Shut down without latching. The unit will shut down when over-voltage protection is activated at 130% of the nominal value, and automatically recovers when the fault is removed. B) Shut down and latched. The unit will shut down when over-voltage protection is activated at 130% of the nominal value, and remains shutdown even after fault is removed. The unit can only be reset by cycling the input power.





Class 2 Power Unit, 100Watt Max, Single Output Family
DeskTop,Open - Frame / PCB Mount, N.A. Input, Class I & II

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Over-Current/ Short-Circuit Protection:
Hiccup, Automatic Recovery for All Models.

Other Protections:
Input Fusing, Thermal Shutdown.

Safety Approvals:

Medical Models Class I and Class II:
Recognized (UR) to UL2601-1, C-UR to CSA-C22.2#601,VDE and TUV to EN60601.

ITE Models Basic and Reinforced Insulation:
Listed (UL) to UL60950, C-UL to CSA-C22.2 #950, VDE and TUV to EN60950

Dielectric Withstand:
4000VAC, 5650VDC Input-Output (Class II, Double-Insulated) or 1500VAC, 2150VDC Input-Output (Class I, Grounded Applications); 1500VAC, 2150VDC Input-Ground/ 500VAC, 705VDC Output-Ground (Option).

Spacing:
8mm primary - secondary.

Leakage Current:
Less than 0.100mA.

Line Surge:
EN61000-4-5 Level 4.

EMI:
Complies with EN55022, 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 EN50082-1 including EN61000-4-2, EN61000-3-2 (PFC functional module for 100W series), EN61000-3-3, 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° Ambient Temperature.

Operating Temperature:
0°C to 40°C, 50% Output Power at 70°C ambient, linearly derated.

Humidity:
0% to 95% Relative Humidity, Non-Condensing.

Storage Temperature:
-40°C to 80°C.

Altitude:
0 - 10,000 feet.

Cooling:
Thermal Conduction

Mechanical Specifications:

Enclosure:
Upper/Lower Housing, High Impact Plastic, 94V0 Polycarbonate, Non-Vented, Color Black. For Case Dimensions please refer to Mechanical Configurations.
Note: For Japanese models add "J" after GT-2,4 of the Model Number.

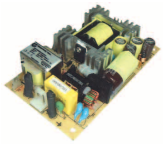
Input Plug Configuration:
Please refer to Catalog Accessories, International Input Configurations.

Class II Models Standard:
Desk-Top Units: EN60 320/C18/2 Pins or EN60 320/C8 (non-polarized shaver) AC Power Receptacle with Male Prongs, Color Black;

Class I Models Standard:
Desk-Top Units: EN60 320/C14/3 Pins AC Power Recepticle with male Prongs, Color Black;
Note: Ground Wire, 18AWG Stranded Green with Yellow Stripe is connected between ground lug and common of Y Safety Capacitors, Internally.

Output Cord and Connector:
Standard, 2 conductors, 18AWG stranded wire, flat UL VW-1 rated SPT-1 cord type, color black, length of cord: 72 ± 2 in. Cord is measured from the housing to the end of overmold of connector.. Cable is to be marked with wire gauge, and all applicable ratings and safety approvals.

Standard Connector:
Straight female barrel 5.5x2.5x11mm with Center Positive. For other output cords please refer to Catalog Accessories, Output Plug/Cord Options. Custom output cords, connectors and shielding are available.



Class 2 Power Unit, 100Watt Max, Single Output Family DeskTop,Open - Frame / PCB Mount, N.A. Input, Class I & II

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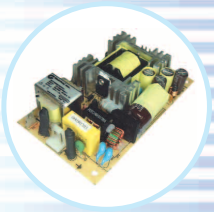
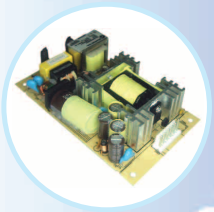
****Universal Input: 90 - 264VAC, 47-63Hz

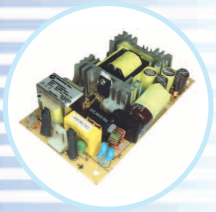
O/P	DESKTOP MODEL NUMBER	OPEN-FRAME/ PCB MOUNT MODEL NUMBER	OUTPUT VOLTAGE	*OUTPUT CURRENT	***RATED OUTPUT POWER
** SINGLE	GT(M)3S100P3.3D-X.X(W)	GT(M)3S100P3.3F(B)-X.X(W)	+3.3 V	0-16 A	53 WATTS
	GT(M)3S100P5D-X.X(W)	GT(M)3S100P5F(B)-X.X(W)	+5 V	0-16 A	80 WATTS
	GT(M)3S100P9D-X.X(W)	GT(M)3S100P9F(B)-X.X(W)	+9 V	0-10 A	90 WATTS
	GT(M)3S100P12D-X.X(W)	GT(M)3S100P12F(B)-X.X(W)	+12 V	0-8.2 A	100 WATTS
	GT(M)3S100P15D-X.X(W)	GT(M)3S100P15F(B)-X.X(W)	+15V	0-6.7 A	100 WATTS
	GT(M)3S100P18D-X.X(W)	GT(M)3S100P18F(B)-X.X(W)	+18 V	0-5.6 A	100 WATTS
	GT(M)3S100P24D-X.X(W)	GT(M)3S100P24F(B)-X.X(W)	+24 V	0-4.2 A	100 WATTS
	GT(M)3S100P48D-X.X(W)	GT(M)3S100P48F(B)-X.X(W)	+48 V	0-2.1 A	100 WATTS
DUAL	GT(M)3D100P21D(W)	GT(M)3D100P21F(B)(W)	+ 5 V +12 V	0-12A 0 - 3A	95 WATTS
	GT(M)3D100P25D(W)	GT(M)3D100P25F(B)(W)	+ 5 V + 12 V	0 -3A 0 -5A	75 WATTS
	GT(M)3D100P23D(W)	GT(M)3D100P23F(B)(W)	+3.3 V +12V	0-12A 0 -3 A	75 WATTS
	GT(M)3D100P26D(W)	GT(M)3D100P26F(B)(W)	+ 3.3 V +12V	0 -3A 0 -5A	70 WATTS
	GT(M)3D100P22D(W)	GT(M)3D100P22F(B)(W)	+ 5V +15V	0-12A 0-2.4A	95 WATTS
	GT(M)3D100P24D(W)	GT(M)3D100P24F(B)(W)	+ 3.3V +15V	0-12A 0-2.4A	75 WATTS
DUAL LOW VOLT.	GT(M)3D100P21LD(W)	GT(M)3D100P21LF(B)(W)	+3.3V +5V	0-10A 0-10A	80 WATTS
TRIPLE	GT(M)3T100P31D(W)	GT(M)3T100P31F(B)(W)	+ 5V + 12V -12V	0 -12A 0-3.0A 0-0.5A	100 WATTS
	GT(M)3T100P32D(W)	GT(M)3T100P32F(B)(W)	+ 5V + 15V - 15V	0 -12A 0-2.4A 0-0.5A	100 WATTS
	GT(M)3T100P33D(W)	GT(M)3T100P33F(B)(W)	+ 3.3V +12V -12V	0 -12A 0-3.0A 0-0.5A	85 WATTS
	GT(M)3T100P34D(W)	GT(M)3T100P34F(B)(W)	+3.3V +15V -15V	0 -12A 0-2.4A 0-0.5A	85 WATTS
TRIPLE LOW VOLT.	GT(M)3T100P31LD(W)	GT(M)3T100P31LF(B)(W)	+3.3V +5V +12V	0 -10A 0 -10A 0-0.5A	85 WATTS
	GT(M)3T100P32LD(W)	GT(M)3T100P32LF(B)(W)	+3.3V +5V -12V	0 -10A 0 -10A 0-0.5A	85 WATTS
	GT(M)3T100P33LD(W)	GT(M)3T100P33F(B)(W)	+3.3V +5V +15V	0 -10A 0 -10A 0-0.5A	85 WATTS
	GT(M)3T100P34LD(W)	GT(M)3T100P34LF(B)(W)	+3.3V +5V -15V	0 -10A 0 -10A 0 - 0.5A	85 WATTS
	GT(M)3T100P35LD(W)	GT(M)3T100P35LF(B)(W)	+3.3V + 5V +12V	0-3A 0-3A 0-5A	85 WATTS

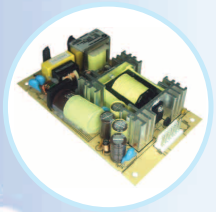




* Each output current can vary within its designated range, as long as the rated output power is not exceeded.
** Single output units are available from 3.3 V up to 48 V in 0.1 V increments.
-X.X: optional for specifying output voltage deviation from standard model, subtracting X.X Volts from standard output voltage.
*** Watts rating for informational purposes, only. May or may not be provided on label.
**** Custom Option: Universal Input Voltage 90-264VAC may be replaced with 36-72VDC Input.

Model Number Code:
GT-3: Internal Code; -: ITE Model or **(M):** Medical Model; **S:** Single Output or **D:** Dual Output or **T:** Triple Output; **100P:** 100W with Power Factor Correction; **3.3 to 48:**
Single Output Voltage or **21 to 26:** Dual Voltage or **21L:** Dual Low Voltage or **31 to 34:** Triple Voltage or **31L to 35L;** Triple Low Voltage; **D:** Desktop or **F:** Open-Frame or
B: PCB Mount; **(W):** Class II Equipment.





Class 2 Power Unit, 100Watt Max, Single Output Family
DeskTop,Open - Frame / PCB Mount, N.A. Input, Class I & II

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Mechanical Configurations:
inch(mm)

I. Enclosed Models:

Upper/Lower Housing, High Impact Plastic, 94VO Polycarbonate, Non-Vented,
Color Black. Unit has non-skid polyurethane pads.

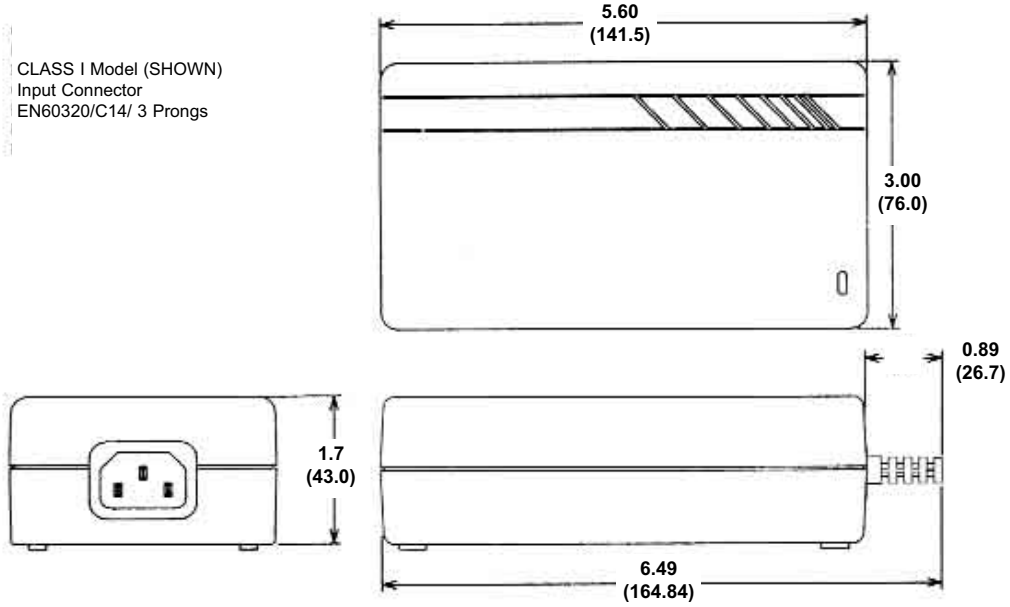
Input Connector:

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).

Class II Models Standard:

Desk-Top Units: EN60 320/C18/2 Pins or EN60 320/C8 (non-polarized shaver) AC Power Receptacle with Male Prongs, Color Black;

CLASS I Model (SHOWN)
Input Connector
EN60320/C14/ 3 Prongs



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Class 2 Power Unit, 100Watt Max, Single Output Family
DeskTop,Open - Frame / PCB Mount, N.A. Input, Class I & II

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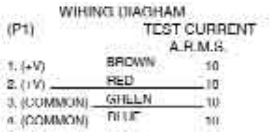
Output Cord and Connector:

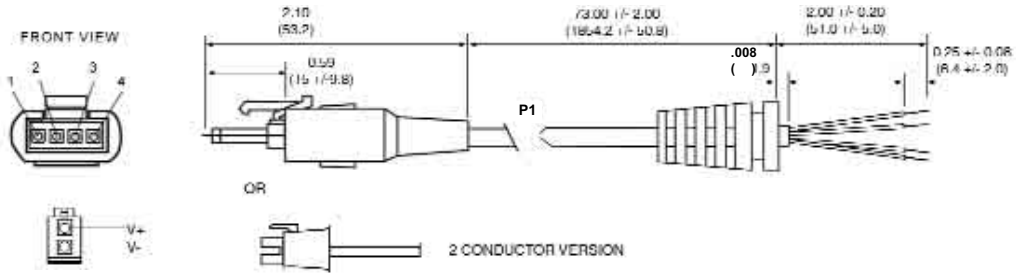
Standard, 2 conductors, 18AWG stranded wire, flat UL VW-1 rated SPT-1 cord type, color black, length of cord: 72 +/- 2 in. Cord is measured from the housing to the end of the overmold of connector. Cable is to be marked with wire gauge, and all applicable ratings and safety approvals.
Standard Connector: Straight female barrel 5.5x2.5x11mm with Center Positive.
For other output cords please refer to Accessories, Output Plug/Cord Options.
Custom output cords, connectors and shielding are available.

eg.:

1) Single High Current Output Models:

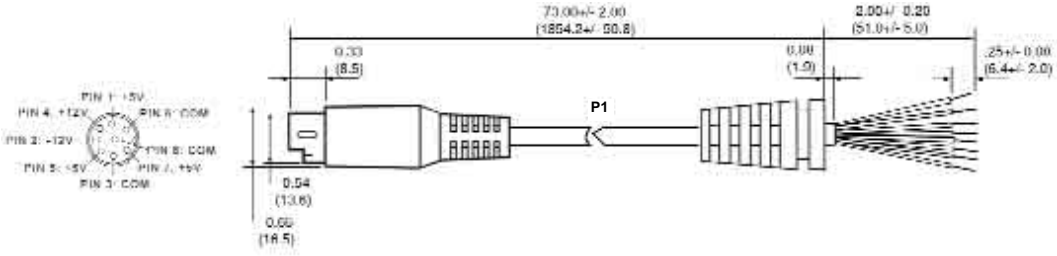
(P1) 4 Conductor Molex Connector, with Locking Latch. Molex P/N 39-01-4041 or Equivalent. Molded with strain relief per standard tooling.
(C1) 4 Conductor 16 AWG Round Cord, UL2464 VW-1, 300 V 80 C Rated, PVC Jacket with strain relief located at stripped end. Lead wires are to be stripped, twisted and tinned to lenght shown. Color of cable assembly is black.

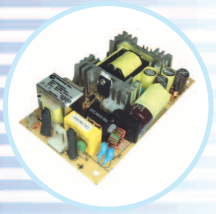


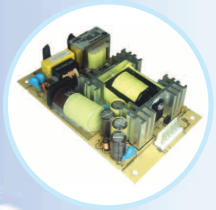


2) Multi-Output Models:

(P1) Standard 8 Pin Din Plug molded per standard tooling.
(C1) 8 Conductor, (7) 18 AWG and (1) 22 AWG Stranded Copper Wire, unshielded, round cord, pvc jacket, UL2464
VW-1 300V 80°C Rated Cord. Must be marked with applicable wire gauge and all approval rating and safety approvals. Lead wires must be securely soldered into the solder cups of the DIN plug. Standard color of cable assembly is black.







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DeskTop,Open - Frame / PCB Mount, N.A. Input, Class I & II

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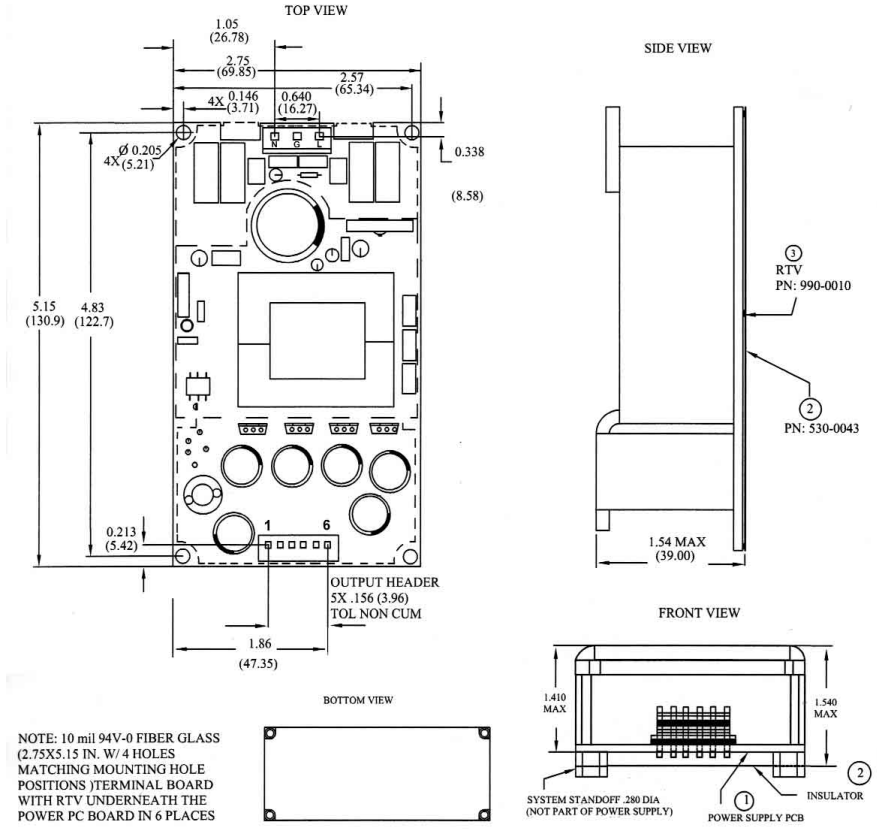
II. Open Frame/PCB Mount Models:

Open frame switching power supply, with mounting holes, positioned as shown below.
Option: PCB Mount, with in/out connectors headers pins on PCB solder side.

Input Connector:

OPEN FRAME CONFIGURATION:
Straight square pin locking header, with .312 (7.92) between conductors, .045 (1.14) square pins, tin plated UL 94V-0 rated nylon housing, Molex no. 09-65-2058 (5 circuits, with 2 pins removed). Header mates with Molex no. 2139 connector or equivalent.
PCB MOUNT CONFIGURATION:
Straight square pin non-locking header, with .312 (7.92) between conductors, .045 (1.14) square pins, tin plated UL 94V-0 rated nylon base, Molex:09-67-4051(5 circuits with 2 pins removed), system board soldered.



OutputConnector:

Open Frame:
6 pin straight square pin friction lock header, Molex No. 26-48- 1065
UL 94V-0 rated nylon housing.
.156 (3.98) between conductors .045 (1.14) square pins, tin plated,
header mates with Molex no. 2139 connectors or equivalents.

OUTPUT WIRING DIAGRAM

TRIPLE: GT-3T100P31F			SINGLE:GT-35100P5F	
PIN 1: +5V	PIN 4:	COM	PIN 1: +5V	PIN 4: COM
PIN 2: +5V	PIN 5:	+12	PIN 2: +5V	PIN 5: +5
PIN 3: COM	PIN 6:	-12	PIN 3: COM	PIN 6: N/C

REMOTE SENSE:
2 Pin straight pin header with locking ramp, with UL 94-0 rated Nylon base, .100 (2.54) pitch between conductors, .025 (.64) square pins, tin plated Molex no. 27-28-0020; header mates with Molex no. 10-11-2023 connector or equivalent.
PCB Mount:
10 Pin straight square pin non-locking header with .156 (3.96) between conductors .045 (1.14) square pins, tin plated, UL 94V-0 rated nylon base, Molex no. 09-67-4061, system board soldered.
REMOTE SENSE:
2 Pin straight square non-locking header with .100 (2.54) pitch between conductors .025 (0.64) . square pins, tin plated UL 94V-0 ratd nylon base, Molex no. 22-28-4020, system board soldered.

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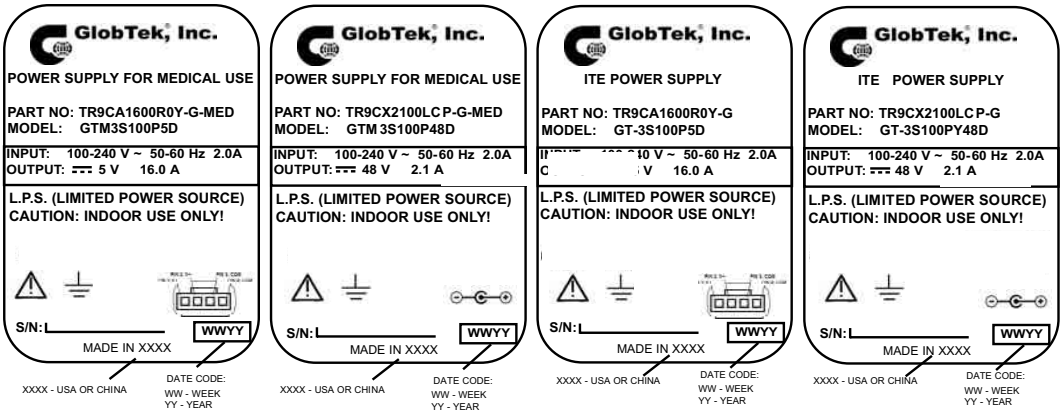
Label:
Material: .007 (0.18) thick flat thermal transfer, imprintable, white or grey polyester sheet, black nomenclature.
Manufacturer: Steven Label, material I.D. No. 3302-33, UL file no. MH12821(N). UL Material Designation File No. GHW332RL.
Optional label material can be substituted, providing material is UL listed and complies with applicable safety requirements.

DeskTop Labels (Shown):

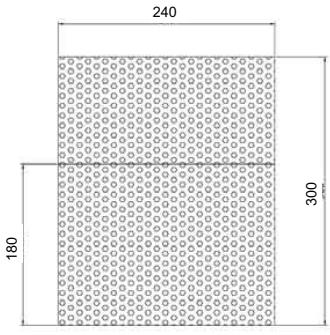


Label Placement:
Enclosed Models: Label is placed on Lower Housing.

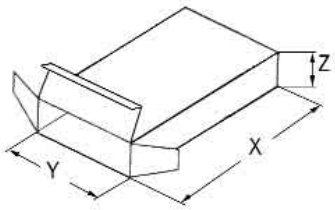
Individual Packaging (Open Frame / PCB Units)
Each power supply shall be contained in a sealed polyester bubble wrap bag, one unit is packed per packing box, each in its own bubble wrap bag.

Individual Packing Box:
Material; Corrugated fiberboard, F-flute, .08 (2.0) thick, double wall construction.
External Finish: White, coated gloss finish (aqueous or varnish). Style: Tuck sides with locking tabs on both sides of box.
Noprinting on outside of box.

ividual Bubble Wrap bag and Packing Box for Open Frame Unit:



Individual Packing Box for Enclosed Models:



X = 205 mm
Y = 130 mm
Z = 60 mm