



**SWITCHING POWER SUPPLY, 300 WATT,  
ENCLOSED, UNIVERSAL INPUT, ACTIVE PFC**

**ISO 9001  
REGISTERED**



 FOR INDOOR USE ONLY

#### 1. NOTES:

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

#### 2. ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE: 90 VAC TO 264 VAC  
INPUT CURRENT: < 6A RMS AT 90 VAC INPUT  
INPUT FREQUENCY: 47 HZ - 63 HZ

OUTPUT VOLTAGE / CURRENT:	PART NO	MODEL NO	OUTPUT
	GTP-300-5	SP-300-5	+ 5 VDC @ 50A
	GTP-300-7.5	SP-300-7.5	+ 7.5 @ 34A
	GTP-300-12	SP-300-12	+ 12 VDC @ 24A
	GTP-300-13.5	SP-300-13.5	+ 13.5 VDC @ 21A
	GTP-300-15	SP-300-15	+ 15 VDC @ 19 A
	GTP-300-24	SP-300-24	+ 24 VDC @ 12.5 A
	GTP-300-27	SP-300-27	+ 27 VDC @ 11 A
	GTP-300-48	SP-300-48	+ 48 VDC @ 6.25 A

OUTPUT CURRENT : NO LOAD TO FULL LOAD, NO MINIMUM LOAD REQUIRED  
OUTPUT POWER (RATED): 300 WATTS MAX  
OUTPUT RIPPLE (PEAK TO PEAK):  $\leq 200$  mV  
OUTPUT REGULATION (LINE/LOAD):  $\pm 1$  % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR  
LINE REGULATION:  $\pm 0.5$  % MAX AT FULL LOAD  
ADJUSTABILITY:  $\pm 10\%$   
TURN ON/ TURN OFF OVERSHOOT: 4% MAX 500uS 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 (PENDING): 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:  $\leq 3.5$  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



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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:  
OPERATING TEMPERATURE:

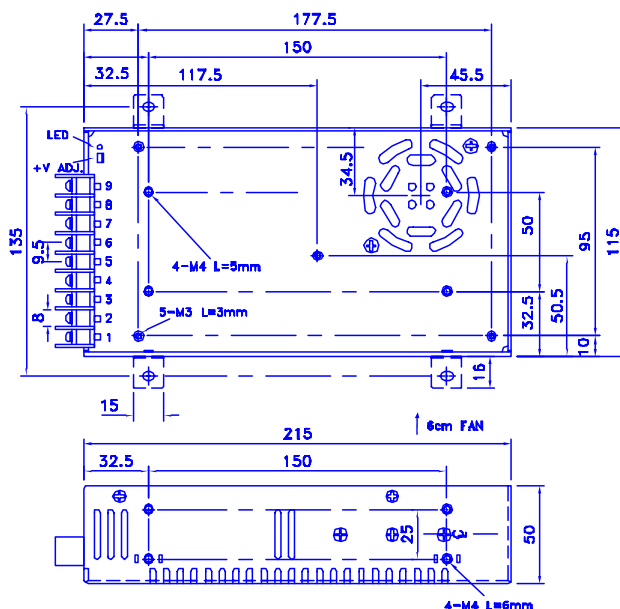
GREATER THAN 50,000 HOURS AT 25°C AMBIENT TEMPERATURE  
0°C TO 40°C, DERATE LINEARY TO 50% OUTPUT POWER AT 70°C  
FORCED CONVECTION COOLING; INTEGRAL FAN WITH SPEED  
CONTROL

STORAGE TEMPERATURE:  
HUMIDITY:

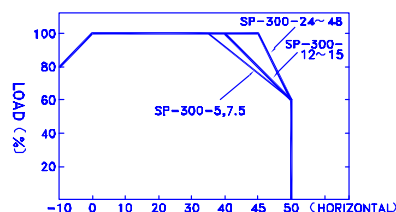
-40°C TO 80°C  
0% TO 90% RELATIVE HUMIDITY

### 3. MECHANICAL: MM

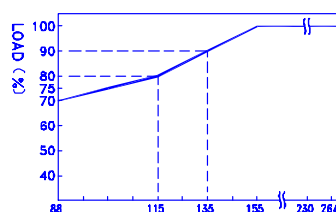
**3.1. CONFIGURATION:** ENCLOSED SWITCHING POWER SUPPLY, AL. ALLOY 3003 OR EQUIVALENT, CHEM. TREATED FINISH, CHASSIS: "U" CHANNEL, WITH (5) MOUNTING METRIC INSERT M4, AS SHOWN BELOW: (4) BOTTOM; (4) RIGHT SIDE, (2) LEFT SIDE. COVER: "L" SHAPE WITH HOLES SCREENED PATTERN FOR FORCED CONVECTION COOLING THERMAL TRANSFER, EXHAUST TOP.



OUTPUT DERATING VS  $T_a$



OUTPUT DERATING VS INPUT VOLTAGE



**3.2. INPUT / OUTPUT CONNECTOR:** STRAIGHT MOUNT BARRIER STRIP, 9 POSITIONS, 9.5 MM PITCH FOR LUG/TERMINALS INPUT/OUTPUT HARNESS CONNECTIONS

### 3.3. WIRING DIAGRAM:

#### ☒ TERMINAL PIN NO. ASSIGNMENT

- ☒ PIN 1,2 : AC INPUT
- ☒ PIN 3 : FG  $\oplus$
- ☒ PIN 4,5,6: DC OUTPUT -V
- ☒ PIN 7,8,9: DC OUTPUT +V



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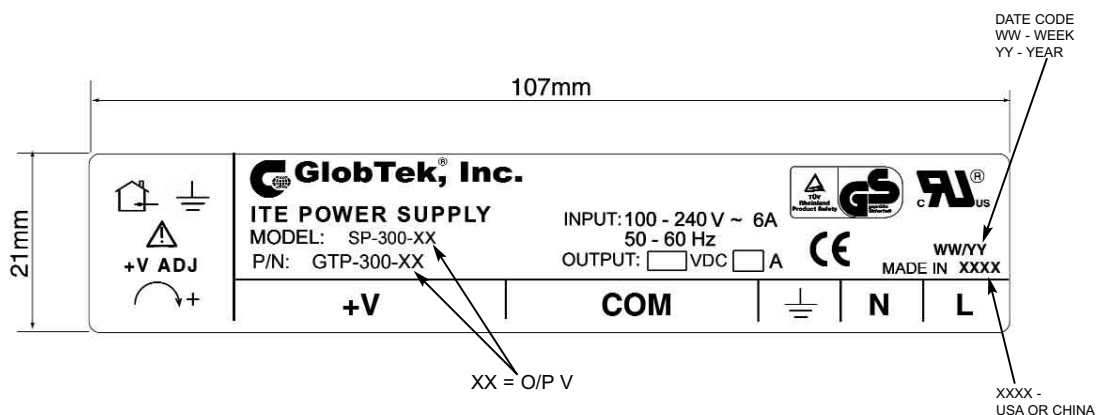


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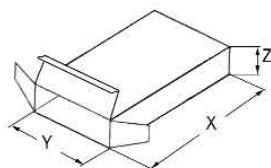


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LABEL:



#### 5. INDIVIDUAL PACKING BOX:



X = 230 mm  
Y = 120 mm  
Z = 52 mm

