



ISO 9001
REGISTERED



**SWITCHING POWER SUPPLY, 500 WATT,
ENCLOSED, UNIVERSAL INPUT**



FOR INDOOR USE ONLY



1. NOTES:

DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE.

2. ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE: 85 VAC TO 264 VAC
 INPUT CURRENT: < 8A RMS AT 85 VAC INPUT
 INPUT FREQUENCY: 47 HZ - 63 HZ
 OUTPUT VOLTAGE / CURRENT: PART NO MODEL NO OUTPUT

GTP-500-12	SP-500-12	+12 VDC @ 40A
GTP-500-13.5	SP-500-13.5	+ 13.5 @ 36A
GTP-500-15	SP-500-15	+ 15 VDC @ 32A
GTP-500-24	SP-500-24	+ 24 VDC @ 20A
GTP-500-27	SP-500-27	+ 27 VDC @ 18 A
GTP-500-48	SP-500-48	+ 48 VDC @ 10 A

OUTPUT CURRENT : NO LOAD TO FULL LOAD,NO MINIMUM LOAD REQUIRED
 OUTPUT POWER (RATED): 500 WATTS MAX
 OUTPUT RIPPLE (PEAK TO PEAK): ≤ 240 mV
 OUTPUT REGULATION (LINE/LOAD): ± 1 % FOR MAIN OUTPUT, MEASURED AT O/P CONNECTOR
 LINE REGULATION: ± 0.5 % MAX AT FULL LOAD
 ADJUSTABILITY: ± 10%
 REMOTE ON/OFF CONTROL: TTL-H SIGNAL, DC ISOLATED, INHIBITS PWM@PFC CONTROLLERS - OPTIONAL

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: 84-87 % TYPICAL , VOLTAGE DEPENDANT
 POWER FACTOR: ACTIVE POWER FACTOR CORRECTION FRONT STAGE;
 PFC: 0.98 @115VAC; 0.95 @ 230VAC

SWITCHING FREQUENCY: 67 KHZ TYPICAL MAIN CONVERTER & PFC
 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



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

OPERATING TEMPERATURE: -10°C TO 50° C, DERATE LINEARY TO 80% OUTPUT POWER AT 70°C FORCED CONVECTION COOLING; INTEGRAL FAN WITH SPEED CONTROL

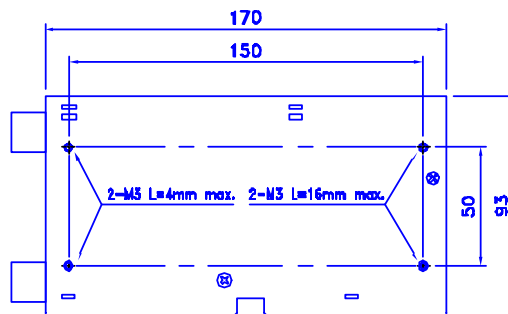
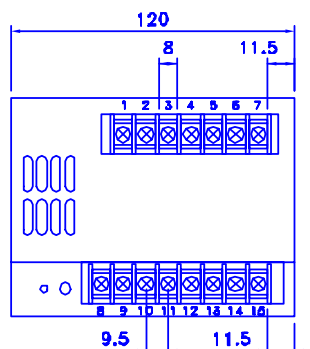
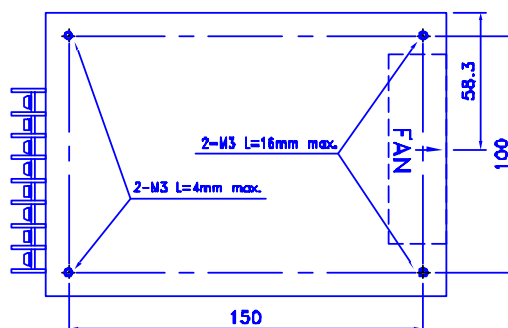
STORAGE TEMPERATURE: -40°C TO 80° C

HUMIDITY: 0% TO 90% RELATIVE HUMIDITY

WEIGHT: 1.8 kgs REF.

3. MECHANICAL: MM

3.1. CONFIGURATION: ENCLOSED SWITCHING POWER SUPPLY, AL. ALLOY 3003 OR EQUIVALENT, CHEM. TREATED FINISH,, CHASSIS: "U" CHANNEL, WITH (8) MOUNTING METRIC INSERTS AS SHOWN BELOW:
 BOTTOM: (4) - M3 (L_{MAX} = 3 mm)
 RIGHT SIDE: (4) - M3 (L_{MAX} = 3 mm)



3.2. INPUT / OUTPUT CONNECTOR: FRONT PANEL(2) MOUNT BARRIER STRIP, 7 AND 8 POSITIONS, 9.5 MM PITCH FOR LUG/TERMINALS INPUT/OUTPUT HARNESS CONNECTIONS



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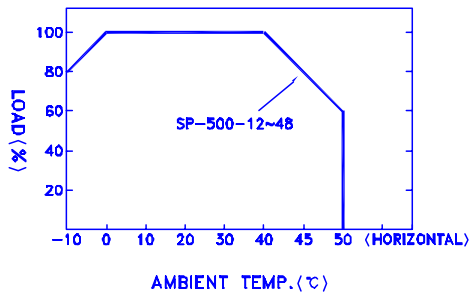


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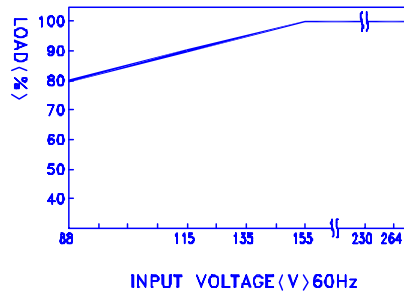


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OUTPUT DERATING VS T_a



OUTPUT DERATING VS INPUT VOLTAGE



3.3. WIRING DIAGRAM:

TERMINAL PIN NO ASSIGNMENT

- PIN 1,2 : AC INPUT
- PIN 3 : FG
- PIN 4,5 : N/C
- PIN 6 : R.C. G
- PIN 7 : R.C.
- PIN 8 : + S
- PIN 9,10,11 : DC OUTPUT +V
- PIN 12,13,14 : DC OUTPUT -V
- PIN 15 : - S





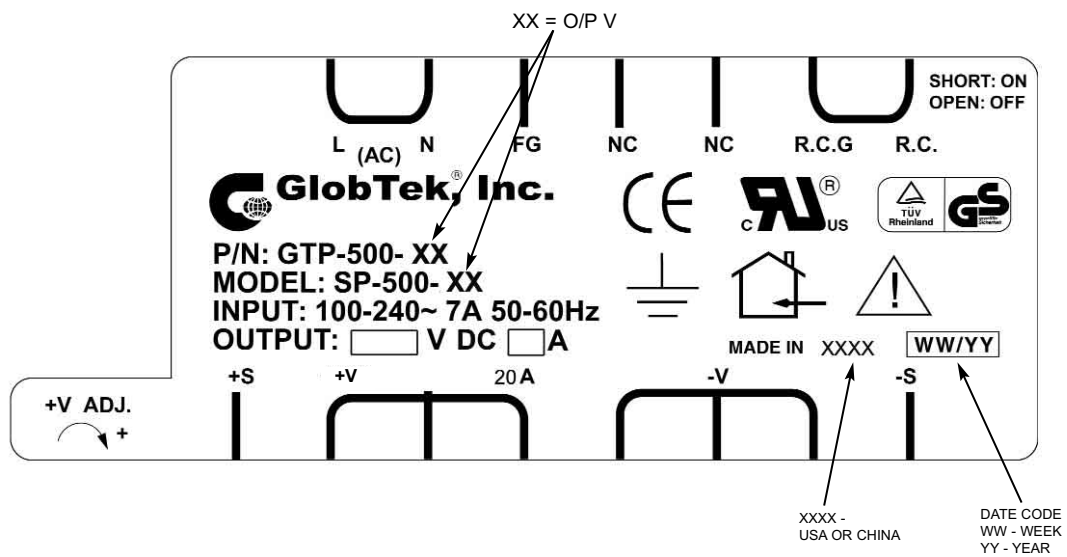
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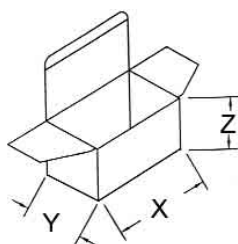


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4. LABEL:



5. INDIVIDUAL PACKING BOX:



X = 210 mm
Y = 123 mm
Z = 95 mm

