

## 1.0 INPUT REQUIREMENTS

- 1.1 AC VOLTAGE:  
90Vac TO 264Vac INPUT
- 1.2 FREQUENCY:  
47Hz TO 63Hz
- 1.3 AC CURRENT:  
0.4A MAX.
- 1.4 INRUSH CURRENT:  
40A MAX. AT 115Vac AND FULL LOAD, COLD START, 25 .

## 2.0 OUTPUT REQUIREMENTS

### 2.1 DC OUTOUT REQUIREMENTS:

| OUTPUT<br>VOLTAGE | OUTPUT<br>TOLERANCE | RIPPLE<br>&NOISE | LOAD |       |
|-------------------|---------------------|------------------|------|-------|
|                   |                     |                  | MIN  | MAX   |
| + 12Vdc           | 11.40V~12.60V       | 120mVp-p         | 0.0A | 1.25A |

NOTE:  
MEASURING DONE BY 20MHz BAND WIDTH LIMITED OSCILLOSCOPE AND TERMINATED EACH OUTPUT WITH A 10uF AND A 0.1uF CAPACITOR DOES MEASURING

- 2.2 OVERSHOOT:  
OVERSHOOT SHOULD NOT EXCEED 10% OVER NOMINAL VOLTAGE
- 2.3 RISE TIME:  
50mS MAX.
- 2.4 HOLD-UP TIME:  
MINIMUM 10mS AT 80% MAX LOAD, 115Vac INPUT.

## 3.0 EFFICIENCY

THE SWITCHER SHOULD PROVIDE DC CONVERSION EFFICIENCY MINIMUM 75% AT FULL LOAD, 115Vac INPUT.

## 4.0 PROTECTION REQUIREMENTS

- 4.1 OVER VOLTAGE PROTECTION:  
22.7V MAX. FOR 12V OUTPUT
- 4.2 SHORT CIRCUIT PROTECTION:  
THE SWITCHER SHOULD BE AUTO-RECOVER IN CASE ANY SHORT-CIRCUIT SHOULD OCCUR AT ANY DC OUTPUT

5.0 ENVIRONMENTAL

- 5.1 OPERATING:  
TEMPERATURE 0 TO 40  
RELATIVE HUMIDITY 20% TO 90% RH
- 5.2 STORAGE:  
TEMPERATURE -25 TO 85  
RELATIVE HUMIDITY 0% TO 90% RH

6.0 EMI REQUIREMENT

MEET FCC PART 15 SUBPART J CLASS B.  
MEET CNS 13438 CLASS B  
MEET CISPR CLASS B

7.0 SAFETY REQUIREMENTS

- 7.1 SAFETY REGULATION:  
THE SWITCHER DESIGNED TO MEET BELOW STANDARDS:  
UL 1950  
CSA 22.2 NO.950  
TUV EN60950
- 7.2 DIELECTRIC STRENGTH:  
INPUT AND OUTPUT 3000Vac @ 3 SEC

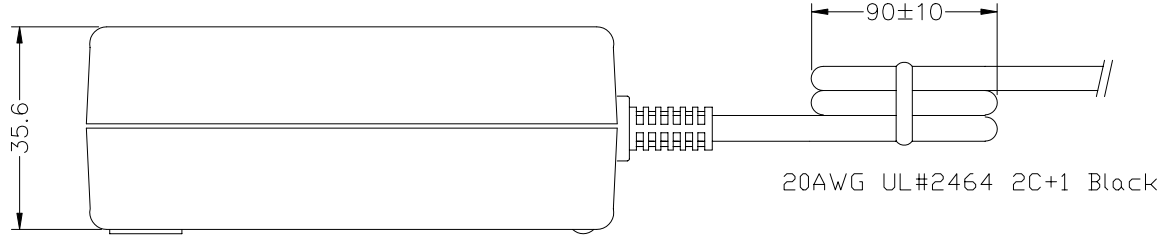
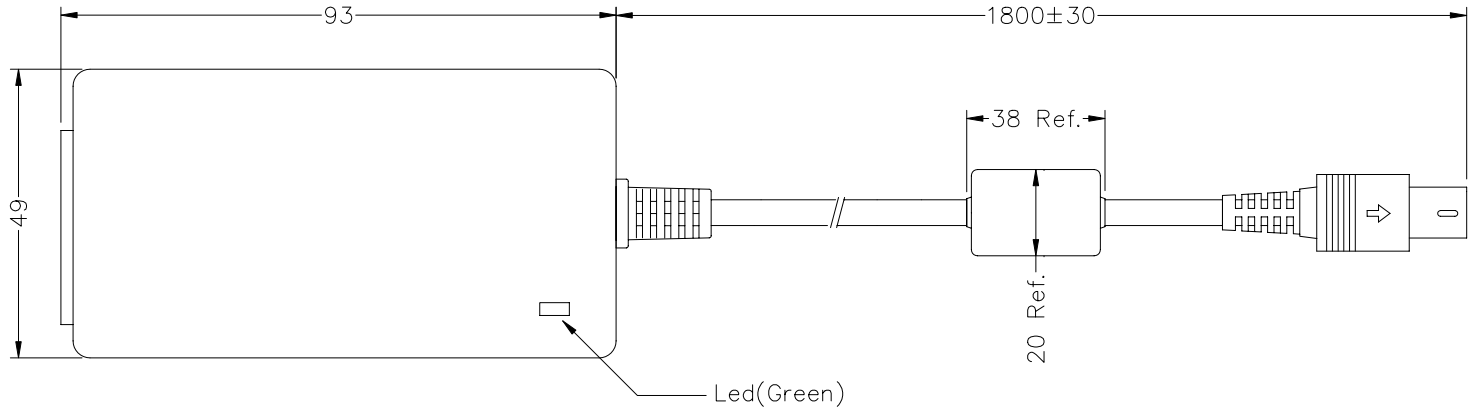
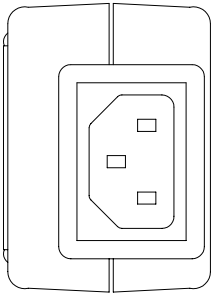
8.0 RELIABILITY

- 8.1 MTBF: 40000 HOURS
- 8.2 B-TEST:  
VIBRATION, SHOCK, ALTITUDE, STATIC COMPRESSION, DROP... ETC. PLEASE REFER  
TO B-TEST PROCEDURE.

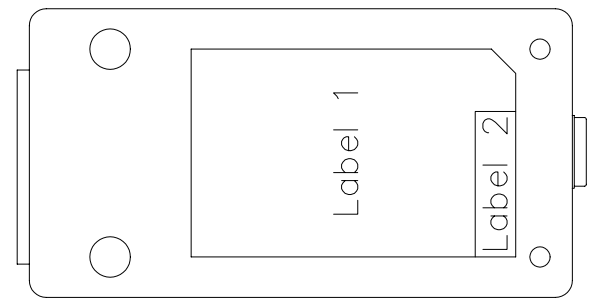
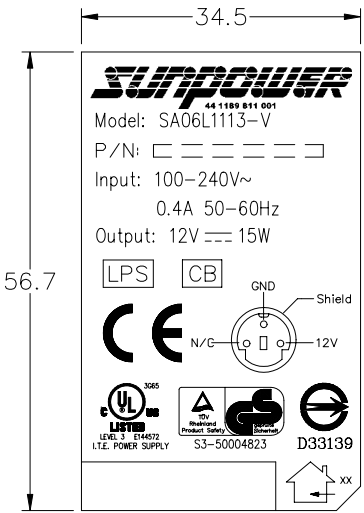
9.0 DIMENSIONS

SEE ASSEMBLY DRAWING

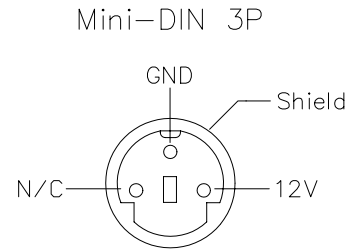
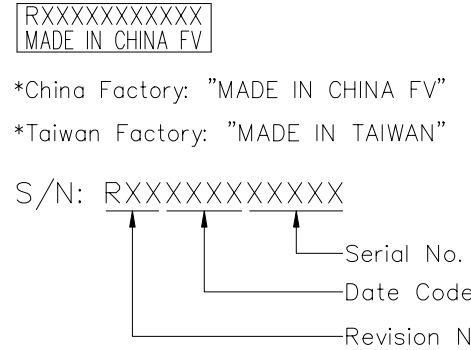
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Label 1:



Label 2:



UNIT : mm

"XX": Manufacturer Code