



**FEATURES**

- 0.87" Slim Case
- Low Cost
- Class I (2MOPP) & Class II (1MOPP) Models Available
- Low Safety Ground Leakage Current
- Compliant with CEC & Energy Star Level V
- 100% Burn-in Tested

**INPUT SPECIFICATIONS**

Input Voltage Range ..... 90~264 VAC  
 Input Frequency ..... 47~63Hz  
 Input Current ..... 1.5A rms @ 90 VAC  
 Inrush Current ..... 40 A @ 115 VAC or 80 A @ 230 VAC,  
 at 25°C cold start  
 Earth Leakage Current ..... 160µA max. @ 264 VAC, 63Hz  
 (for Class I models only)  
 Touch Current ..... 40µA max. @ 264 VAC, 63Hz  
 (for Class I and Class II models)  
 No Load Power ..... 0.21W typical

**OUTPUT SPECIFICATIONS**

Output Power Ratings ..... See table  
 Tolerance ..... ±5%  
 Ripple and Noise\* ..... 300mV peak to peak max. at full load  
 Overvoltage Protection ..... 36 Vdc max., Latch off  
 Overcurrent Protection ..... 6A max., Auto-recovery  
 Over-Temp. Protection ..... Latch off  
 Short Circuit Protection ..... Auto-recovery  
 Temperature Coefficient ..... ±0.04%/°C max.  
 Turn-On Delay ..... 3 sec. @ 100 VAC, 60Hz  
 Transient Response ..... Max. excursion of 4% or better on  
 all models, recovering to 1% of  
 final value within 500 µs after a  
 25% step load change

\* Measured with 20MHz bandwidth at rated line voltage and output load ranges,  
 with a 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor in  
 parallel across the output.

**GENERAL SPECIFICATIONS**

Power Factor ..... 0.9 typical @ 115 VAC  
 Efficiency ..... 88% minimum at full load  
 Hold-up Time ..... 10 ms min. @ 115 VAC, 60Hz  
 Switching Frequency ..... 75~100KHz  
 Line Regulation ..... ±1% maximum at full load  
 Operating Temperature ..... 0°C to +40°C  
 Derating ..... Derate from 100% at +40°C linearly  
 to 50% at +60°C  
 Storage Temperature ..... -40°C to +85°C  
 Relative Humidity ..... 5% to 90% non-condensing  
 Withstand Voltage ..... 4000 VAC from input to output  
 1500 VAC from input to ground  
 MTBF ..... 100K hours minimum at full load,  
 25°C ambient, calculated per  
 MIL-HDBK-217F



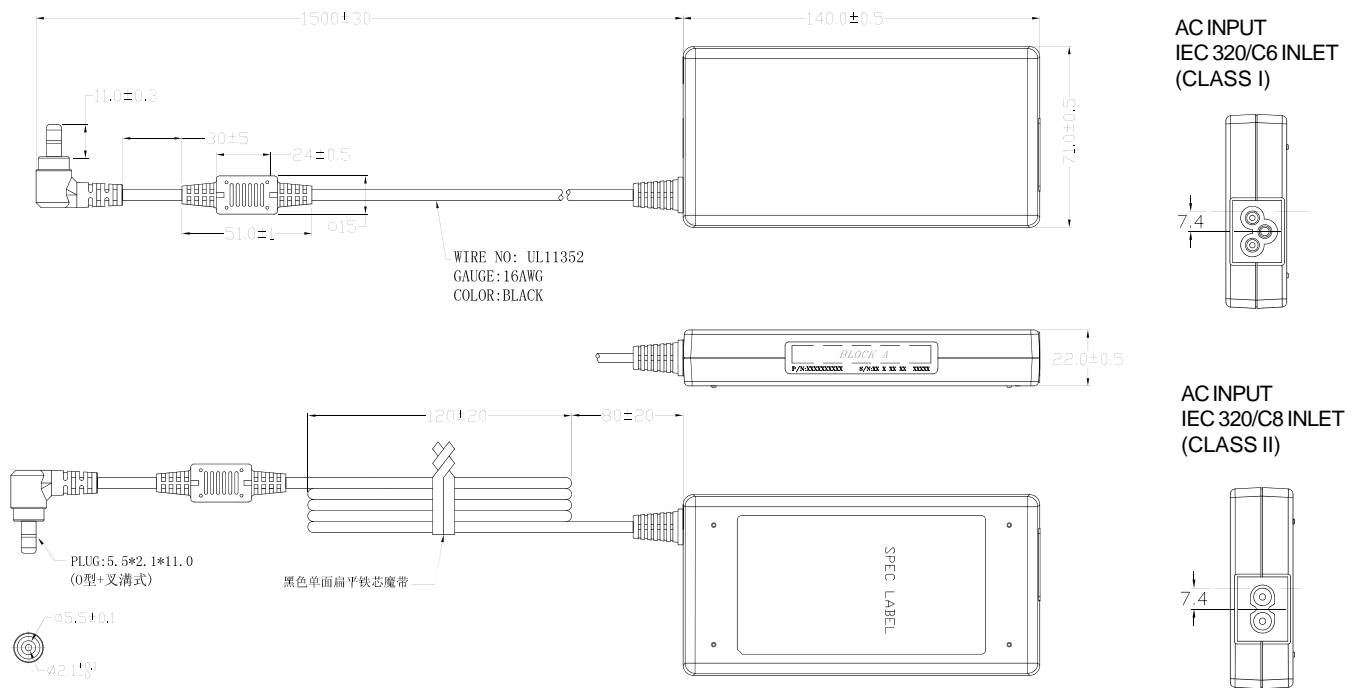
**MODELS LIST**

Product No.	Output Voltage	Maximum Current	Maximum Power
<b>Class I (IEC 320/C6 Inlet)</b>			
<b>TMP92-12</b>	12 V	7.5 A	90 W
<b>TMP92-18</b>	18 V	5 A	90 W
<b>TMP92-19</b>	19 V	4.74 A	90 W
<b>TMP92-24</b>	24 V	3.75 A	90 W
<b>Class II (IEC 320/C8 Inlet)</b>			
<b>TMP92-12-2R</b>	12 V	7.5 A	90 W
<b>TMP92-18-2R</b>	18 V	5 A	90 W
<b>TMP92-19-2R</b>	19 V	4.74 A	90 W
<b>TMP92-24-2R</b>	24 V	3.75 A	90 W

**STANDARDS & COMPLIANCES**

IEC/EN 60601-1-2 ..... EMC & Immunity Performance  
 EN 55011, FCC, VCCI ..... Class B, conducted & radiated  
 EN 61000-3-2 ..... Harmonic distortion, Class A  
 EN 61000-3-3 ..... Line flicker  
 EN 61000-4-2 ..... ESD, ±8 KV air and ±6 KV contact  
 EN 61000-4-3 ..... Radiated immunity, 3 V/m  
 EN 61000-4-4 ..... Fast transient/burst, ±2 KV  
 EN 61000-4-5 ..... Surge, ±1 KV diff., ±2 KV com.  
 EN 61000-4-6 ..... Conducted immunity, 3 Vrms  
 EN 61000-4-8 ..... Magnetic field immunity, 3 A/m  
 EN 61000-4-11 ..... Voltage dip immunity,  
 30% reduction for 500ms,  
 60% reduction for 100ms,  
 >95% reduction for 10ms  
 Safety Standards ..... IEC/EN/UL 60601-1 3rd Edition,  
 ANSI/AAMI ES 60601-1 1st Edition,  
 CSA-C22.2 No. 60601-1 2nd Edition  
 Agency Approvals ..... UL, TUV, CE, CB  
 Other Compliances ..... RoHS, CEC & Energy Star Level V

### MECHANICAL SPECIFICATIONS



Unit: inch [mm]  
Tolerance: 0.02 [0.5] maximum  
Weight:

#### NOTES:

1. The output connector shown is for reference only. Please contact TRUMPower to order the connector that meets your requirements.