



FEATURES

- C14, C6 & C8 Inlets
- Class I & Class II, 2 MOPP
- LED Power Indicator
- Factory Preset 5V to 36V Output Voltages
- Safety Approved to IEC/EN/UL 60601-1 Edition 3.1
- Compliant with IEC/EN 60601-1-2:2014 Medical EMC 4.0



INPUT SPECIFICATIONS

Input Voltage Range 90-275 VAC
 Input Frequency 47-63 Hz
 Input Current 0.32A rms max. @ 100 VAC,
 0.19A rms max. @ 240 VAC
 Inrush Current 23A @ 100 VAC or 55A
 @ 240 VAC, at 25°C cold start
 No Load Power Consumption... 0.3W max.
 Earth Leakage Current 100µA max. @ 240 VAC, 60 Hz

OUTPUT SPECIFICATIONS

Output Power Ratings See models list
 Line Regulation ±1% max. @ full load
 Load Regulation See models list
 Ripple & Noise See models list
 Overload Protection Set at 110-150% of its nominal
 output voltage; Auto recovery
 Overvoltage Protection Set at 112-132% of its nominal
 output voltage
 Temperature Coefficient ±0.04%/°C max.
 Transient Response 4ms @ 110 VAC, full load

GENERAL SPECIFICATIONS

Efficiency See models list
 Hold-up Time 10ms min. @ 100 VAC, full load
 Start-up Time 2 seconds max. @ full load
 Operating Temperature -10°C to +70°C
 Derating Derate from 100% at +50°C
 linearly to 50% at +70°C
 Storage Temperature -40°C to +85°C

MODELS LIST

Product No.*	Output Voltage*	Max. Output Current	Max. Output Power	Ripple & Noise (Vp-p Max.)	Total Regulation	Efficiency (Typ.)
TSM15-05-X	5V	2.6A	13W	50mV	±5%	75%
TSM15-09-X	9V	1.67A	15W	80mV	±5%	81%
TSM15-12-X	12V	1.25A	15W	100mV	±5%	81%
TSM15-15-X	15V	1A	15W	100mV	±5%	81%
TSM15-24-X	24V	0.625A	15W	100mV	±3%	82%
TSM15-30-X	30V	0.5A	15W	100mV	±3%	84%
TSM15-36-X	36V	0.417A	15W	100mV	±3%	85%

*X=4 for units with C14 inlet, X=6 for units with C6 inlet, X=8 for units with C8 inlet. Specify the output voltage, within 5V to 36V, when ordering special output, e.g. TSM15-7.5-4 for 7.5V output with C14 inlet.

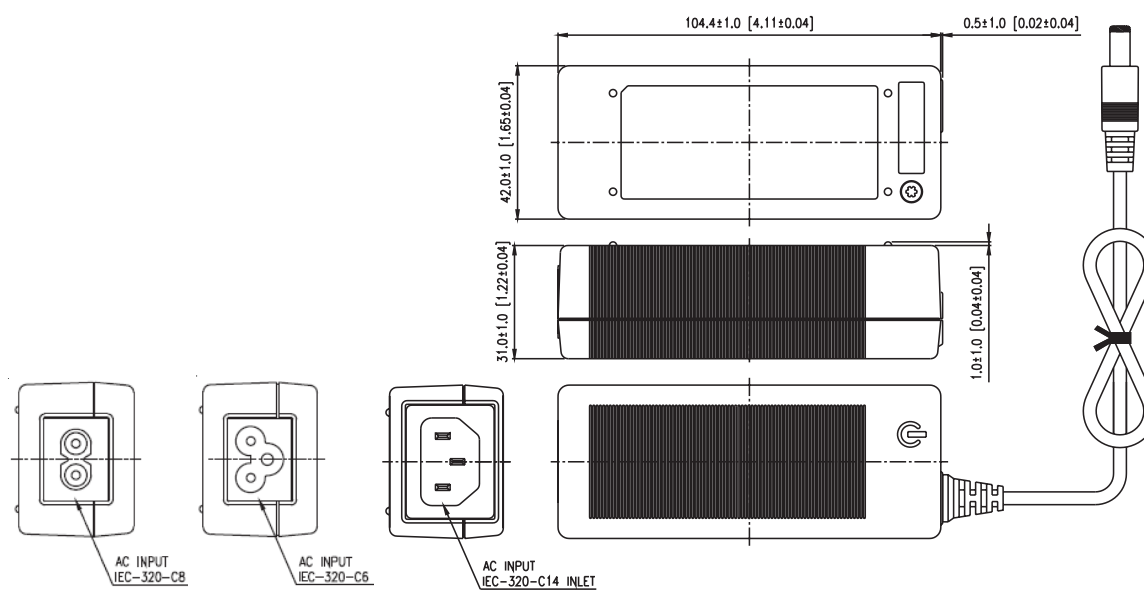
GENERAL SPECIFICATIONS (Cont.)

Relative Humidity 0% to 95% non-condensing
 Withstand Voltage 4,000 VAC Input-output (2MOPP)
 1,500 VAC input-ground
 Operating Altitude 3,000 meters max.
 MTBF 200K hours minimum at full load,
 25°C ambient, calculated per
 MIL-HDBK-217F

STANDARDS & COMPLIANCE

IEC/EN 60601-1-2:2014 EMC & Immunity Performance
 EN 55011, CISPR11 Class B, conducted & radiated
 FCC, VCCI Class B, conducted & radiated
 EN 61000-3-2 Harmonic distortion, Class B & D
 EN 61000-3-3 Line flicker
 EN 61000-4-2 ESD, ±15 KV air and ±8 KV contact
 EN 61000-4-3 Radiated immunity, 3V/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, 3A/m
 EN 61000-4-11 Voltage dips,
 30% reduction for 500ms,
 60% reduction for 100ms,
 >95% reduction for 10ms
 Safety Standards IEC/EN/UL 60601-1 Ed. 3.1,
 ANSI/AAMI ES 60601-1:2012,
 CSA C22.2 No. 60601-1:2014
 Agency Approvals UL, cUL, TUV, PSE, FCC, CE, CB
 Other Compliance RoHS2, CEC V

MECHANICAL SPECIFICATIONS



Unit: mm [inch]
 Tolerance: 0.02 [0.5] max.
 Weight: 170g (0.38 lb) approx.

Notes:

1. Standard output connector: 2.5 x 5.5 mm or 2.1 x 5.5 mm barrel plug
2. Standard output cable: 1,200mm (4 ft) AWG#16 for 5-7.99V output models; 1,200mm (4 ft) AWG#18 for 8-36V output models.
3. Contact TRUMPower for your special output cable and connector requirements.