TRUMPower

TMPC-700

Medical Grade 700W ATX PC Power Supply

FEATURES

- 90-264 VAC Universal Input
- Meets ATX12V & EPS12V Standards
- 80 Plus Bronze High Efficiency
- Active PFC meets EN 61000-3-2 Standard
- Approved to UL & IEC 60601-1 3rd Edition
- Low Noise Ball-bearing Fan

INPUT SPECIFICATIONS

Input Voltage Range ..... 90~264 VAC
Input Frequency ..... 47~63Hz
Input Current ..... 10A rms max. @ 115 VAC
5A rms max. @ 240 VAC
Inrush Current ..... 50A @ 115 VAC, 100A @ 230 VAC, at 25°C cold start
Earth Leakage Current ..... 100µA max. @ 115 VAC, 60Hz
150µA max. @ 264 VAC, 50Hz

OUTPUT SPECIFICATIONS

Output Power Ratings ..... See rating chart
Load Regulation ..... See rating chart
Line Regulation ..... ±0.5% max. at full load
Ripple & Noise* ..... See rating chart
Hold-up Time ..... 13ms min. @ 110/230 VAC
Switching Frequency ..... 85KHz typ.
Overvoltage Protection, +3.3V ... 3.7~4.8V
+5V ..... 5.7~7.0V
+12V .... 13.4~16.0V
Overcurrent Protection, +3.3V .... 38~48A
+5V ..... 35~50A
+12V .... 20~28A
Short-Circuit Protection ..... On +3.3V, +5V & +12V outputs
Temperature Coefficient ..... ±0.04%/°C max.

* Measured with 20MHz bandwidth at rated line voltage and output load ranges, with a 47µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor in parallel across the output.

OUTPUT VOLTAGE & CURRENT RATING CHART

Ouptut Voltage	Minimum Load	*Maximum Load	Load Regulation	Ripple & Noise VP-P Max.
+3.3V	0.5A	24A	±5%	50mV
+5V	0.5A	30A	±5%	50mV
+12V1	0.5A	16A	±5%	120mV
+12V2	0.5A	16A	±5%	120mV
+12V3	0.5A	16A	±5%	120mV
+12V4	0.5A	16A	±5%	120mV
-12V	0.05A	0.5A	±10%	120mV
+5Vsb	0.1A	3.5A	±5%	50mV
-5V	0A	0.2A	±10%	100mV

* The overall output power is 700W maximum.
* The total output power for +3.3V & +5V is 180W maximum .
* The total output current for +12V1, +12V2, +12V3 & +12V4 is 50A maximum.

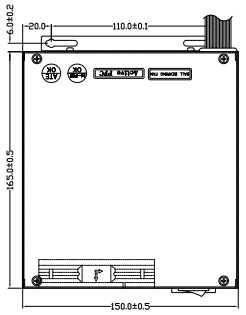
GENERAL SPECIFICATIONS

Efficiency ..... 82% min. at full load
Operating Temperature ..... 0°C to +50°C
Derating ..... Derate from 100% @ +50°C linearly to 50% @ +70°C
Storage Temperature ..... -20°C to +80°C
Relative Humidity ..... 5% to 95% non-condensing
Withstand Voltage ..... 1500 VAC from input to ground
MTBF ..... 100K hours mininum at full load & 25°C ambient, calculated per MIL-HDBK-217F

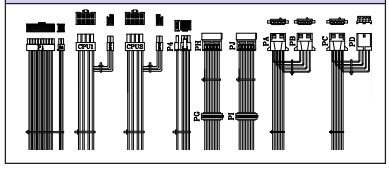
STANDARDS & COMPLIANCES

EMC Performance ..... EN 60601-1-2
Emissions ..... Class B conducted & radiated, EN55011, EN55022, FCC, CISPR 22, VCCI
Immunity ..... EN 61000-3-2, EN 61000-3-3 EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11
Safety Standards ..... UL 60601-1, EN 60601-1: 3rd edition
Agency Approvals ..... UL, TUV, CB, CE
Other Compliance ..... RoHS

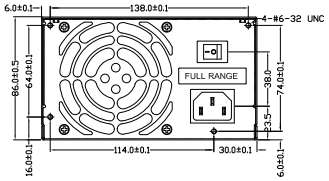
MECHANICAL SPECIFICATIONS

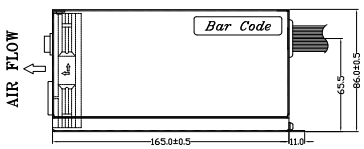


*TYPICAL OUTPUT CABLESET



*Custom output cablesets available





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