TRUMPower

TIPC400-24

400W ATX PC Power Supply with 24V Output

FEATURES

- Meets ATX12V Standard
- Additional 24V/5A Output
- Meets 80PLUS Bronze Efficiency Level
- Active PFC meets EN 61000-3-2 Standard
- Optional On/Off Switch
- Approved to IEC/EN/UL 60950-1 2nd Edition Standards

INPUT SPECIFICATIONS

Input Voltage Range ..... 90-264 VAC
Input Frequency 47-63Hz
Input Current ..... 8A rms max. @ 115 VAC
4A rms max. @ 230 VAC
Inrush Current ..... 80A max. @ 115 VAC,
160A max. @ 230 VAC,
at 25°C cold start
Earth Leakage Current ..... 350µA max. @ 264 VAC, 63Hz

OUTPUT SPECIFICATIONS

Output Power Ratings ..... See rating chart
Line Regulation ..... ±0.5% max. at full load
Load Regulation ..... See rating chart
Ripple & Noise* ..... See rating chart
Hold-up Time ..... 15ms min. @ 115/230 VAC
Rise Time ..... 20ms, 10-90% of the rated output @ full load, 115/230V
Over Voltage Protection, +3.3V .. 3.7-4.8V
+5V 5.7-7V
+12V ... 13.3-16V
+24V ... 27-31V
Over Current Protection, +3.3V .. 25-50A
+5V 25-45A
+12V ... 20-28A for each rail
+24V ... 8-13A
Short Circuit Protection ..... On all outputs, Latch off except auto-recovery on 5Vsb
Temperature Coefficient ..... ±0.04%/°C max.

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

OUTPUT VOLTAGE & CURRENT RATING CHART

Ouptut Voltage	Minimum Load	*Maximum Load	Load Regulation	Ripple & Noise VP-P Max.
+3.3V	0.5A	16A	±5%	50mV
+5V	0.5A	16A	±5%	50mV
+12V1	0.5A	16A	±5%	120mV
+12V2	0.5A	16A	±5%	120mV
+24V	0.2A	5A	±10%	200mV
-12V	0A	0.5A	±10%	120mV
+5Vsb	0A	3A (3.5A Peak)	±5%	50mV
*-5V	0A	0.3A	±10%	100mV

* The overall output power is 400W maximum.
* The total output power for +3.3V & +5V is 130W maximum.
* -5V output is optional.

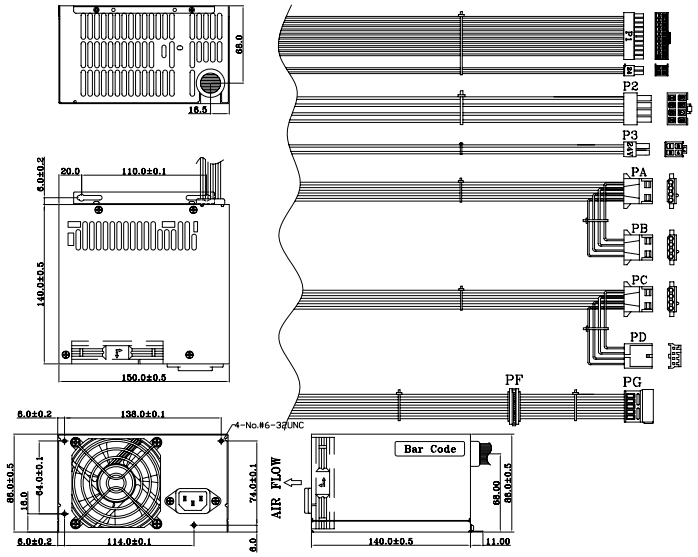
GENERAL SPECIFICATIONS

Efficiency ..... 85% typical; 82% min. @ full load
Operating Temperature ..... 0°C to +50°C
Storage Temperature ..... -20°C to +80°C
Relative Humidity ..... 5% to 95% non-condensing
MTBF ..... 100K hours mininum at full load & 25°C ambient, calculated per MIL-HDBK-217F

STANDARDS & COMPLIANCES

EMI/EMC ..... FCC & CISPR 22, Class B conducted
FCC & EN 55022, Class B radiated
Safety Standards ..... UL/IEC/EN 60950-1 2nd Edition
Agency Approvals ..... UL, cUL, TUV, CB, CE
Other Compliance ..... 80PLUS, RoHS, EuP Lot 6:2013

MECHANICAL SPECIFICATIONS



Notes:
1. Dimensions in mm.
2. Cutomized cable set available upon request.

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