TIPC500P

500W High Efficiency PS/2 ATX IPC Power Supply

FEATURES

- PS/2 ATX Form Factor
- Complies with ATX12V Standard
- Meets 80PLUS Platinum Efficiency Level
- Active PFC meets EN 61000-3-2
- 5,000 Meters Operating Altitude
- Approved to UL/IEC/EN 60950-1 2nd Edition



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 ..... 50A @ 115 VAC,
100A @ 230 VAC, at 25°C cold start
Earth Leakage Current ..... 350µA max. @ 264 VAC, 50Hz

OUTPUT SPECIFICATIONS

Output Power Ratings ..... See rating chart
Load Regulation ..... See rating chart
Ripple & Noise* ..... See rating chart
Hold-up Time ..... 12ms min. @ 115 VAC, 60 Hz
16ms min. @ 230 VAC, 50 Hz
Rise Time ..... 20ms max. @ 115/230VAC
Over Voltage Protection, +3.3V .. 3.5-4.8V
+5V 5.5-7V
+12V ... 13.4-16V
Over Current Protection, +3.3V .. 35-60A
+5V 30-45A
+12V ... 22-30A
Short Circuit Protection ..... Shut down & Latch off on +3.3V/+5V/+12V; No damage on -12V/-5V
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	0.3A	24A	±5%	50mV
+5V	0.3A	20A	±5%	50mV
+12V1	0.3A	18A	±5%	120mV
+12V2	0.3A	18A	±5%	120mV
-12V	0A	0.5A	±10%	120mV
+5Vsb	0A	3A	±5%	50mV
*-5V	0A	0.2A	±10%	100mV

* The overall output power is 500W maximum.
* The total output power for +3.3V & +5V is 120W maximum.
* -5V output is optional.

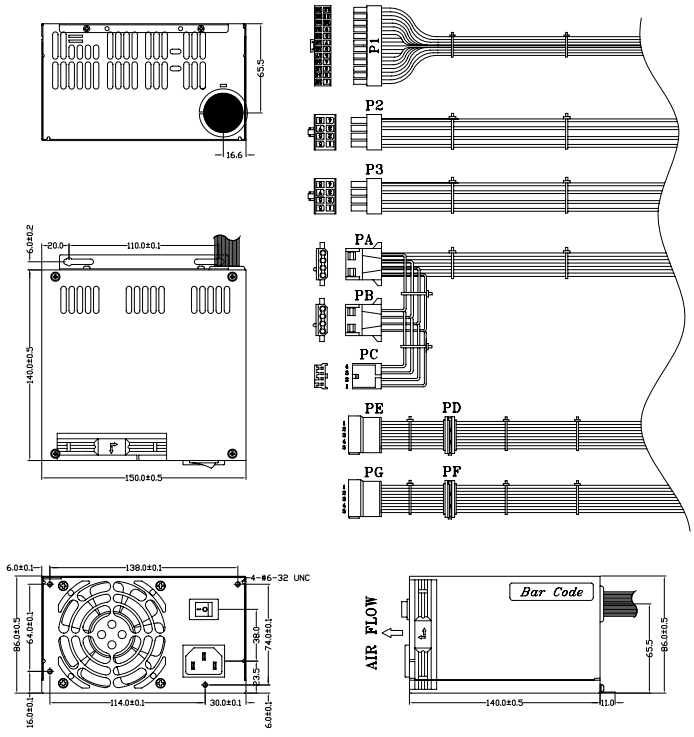
GENERAL SPECIFICATIONS

Efficiency ..... 92% typ. @ full load
Operating Altitude ..... 5,000 meters max.
Operating Temperature ..... 0°C to +50°C
Storage Temperature ..... -20°C to +80°C
Relative Humidity ..... 5% to 95% non-condensing
Withstand Voltage ..... 1,800 VAC, input-ground
MTBF ..... 150K 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, CCC, CB, CE
Other Compliance ..... 80PLUS, RoHS, EuP Lot 6:2013

MECHANICAL SPECIFICATIONS



Notes:
1. Dimensions in mm.
2. Power switch is optional.
3. Customized cable sets available upon request.

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