TIPC500-24G

500W PS/2 ATX IPC Power Supply +24V

FEATURES

- PS/2 ATX Form Factor
- Complies with ATX12V Standard +24V Output
- Meets 80PLUS Gold Efficiency Level
- Active PFC meets EN 61000-3-2 Standard
- Remote ON/OFF Function
- Meets IEC/EN 62368-1:2014

INPUT SPECIFICATIONS

Input Voltage Range ..... 90-264 VAC
Input Frequency ..... 50-60 Hz
Input Current ..... 8A rms max. @ 115 VAC
4A rms max. @ 230 VAC
Earth Leakage Current ..... 350µA max. @ 264 VAC, 63Hz

OUTPUT SPECIFICATIONS

Output Power Ratings ..... See rating chart
Load Regulation ..... See rating chart
Ripple & Noise* ..... See rating chart
Hold-up Time ..... 10ms min. @ 115/230 VAC
Rise Time ..... 20ms max. @ 115/230 VAC
Over Voltage Protection, +3.3V .. 3.7-4.8V
+5V 5.7-7.0V
+12V ... 13.3-16V
+24Vsb 27-31V
Over Current Protection, +3.3V .. 25-50A
+5V 25-45A
+12V1 . 22-30A
+12V2 . 22-30A
+24V.... 10-16A
Short Circuit Protection ..... Shut down, Latch off on all outputs
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	0.1A	18A	±5%	50mV
+5V	0.1A	18A	±5%	50mV
+12V1	0.5A	18A	±5%	120mV
+12V2	0.5A	18A	±5%	120mV
-12V	0A	0.5A	±10%	120mV
+24V	0A	8A	±10%	240mV
-5V	0A	0.1A	±10%	100mV
+5Vsb	0A	3A	±5%	50mV

* The overall output power is 4500 maximum.
* The total output power for +3.3V & +5V is 110W maximum.

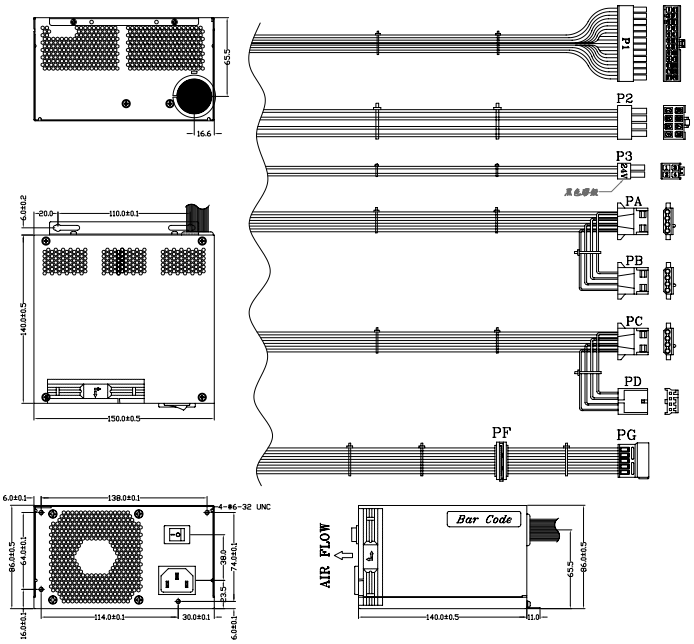
GENERAL SPECIFICATIONS

Efficiency ..... 90% 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 & COMPLIANCE

EMI/EMC ..... FCC & CISPR 22, Class B conducted
FCC & EN 55022, Class B radiated
Safety Standards ..... IEC/EN 62368-1:2014
Agency Approvals ..... *Pending* UL, cUL, TUV, CB, CE
Other Compliance ..... 80PLUS Gold, RoHS

MECHANICAL SPECIFICATIONS



Notes:
1. Dimensions in mm.
2. Customized cable sets available upon request.

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