



TRUMPower

TIPC400B

400W PS/2 ATX IPC Power Supply

FEATURES

- PS/2 ATX Form Factor
- Complies with ATX12V Standard
- Meets 80PLUS Bronze Efficiency Level
- Active PFC meets EN 61000-3-2 Standard
- Remote ON/OFF Function
- Approved to UL/IEC/EN 60950-1 2nd Edition



INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC
Input Frequency	47-63 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	15ms min. @ 115/230 VAC
Rise Time	20ms max. @ 115/230 VAC
Over Voltage Protection, +3.3V ..	3.7-4.8V
	+5V 5.7-7V
	+12V ... 13.3-16V
Over Current Protection, +3.3V ..	50mV p-p
	+5V 50mV p-p
	+12V ... 120mV p-p
	-12V 120mV p-p
	+5Vsb . 50mV p-p
	-5V 100mV p-p
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

Output Voltage	Minimum Load	*Maximum Load	Load Regulation	Ripple & Noise VP-P Max.
+3.3V	0.5A	21A	±5%	50mV
+5V	0.5A	16A	±5%	50mV
+12V ₁	0.5A	17A	±5%	120mV
+12V ₂	0.5A	17A	±5%	120mV
-12V	0A	0.5A	±10%	120mV
+5Vsb	0.1A	3A	±5%	50mV
*-5V	0A	0.3A	±10%	100mV

* The overall output power is 400W maximum.

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

* -5V output is optional.

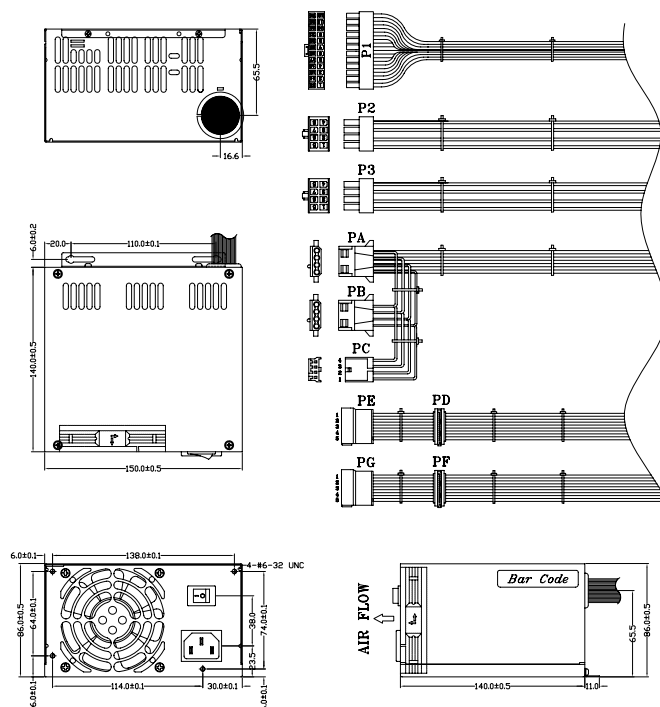
GENERAL SPECIFICATIONS

Efficiency	85% typ. @ full load
Operating Altitude	2,000 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 minimum 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, CCC
Other Compliance	80PLUS, RoHS

MECHANICAL SPECIFICATIONS



Notes:

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

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Tumbler Technologies + TRUMPower

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