



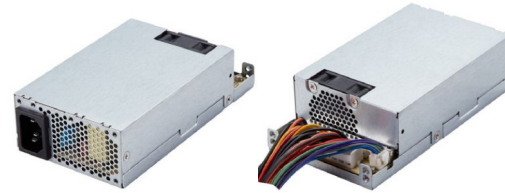
TRUMPower

TIPC180-FX/FXM

180W FlexATX IPC Power Supply

FEATURES

- Complies with Flex ATX Standard
- Active PFC meets EN 61000-3-2 Standard
- Remote ON/OFF Function
- 5,000 Meters Operating Altitude
- IEC/EN/UL 62368-1 Approved



INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC
Input Frequency	47-63Hz
Input Current	3A rms max. @ 115 VAC 1.5A rms max. @ 230 VAC
Earth Leakage Current	150µA 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	20ms min. @ 115/230 VAC
Rise Time	20ms max. @ 115/230 VAC
Over Voltage Protection, +3.3V	3.7-4.5V
+5V	5.7-6.5V
+12V	13.3-15.5V
Over Current Protection, +3.3V	10-15A
+5V	15-20A
+12V	15-21A
Short Circuit Protection	On all outputs
Temperature Coefficient	±0.04%/°C max.

* Measured with 20MHz bandwidth at rated line voltage and output load ranges, with a 10µF electrolytic 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	0A	8A	±5%	50mV
+5V	0.2A	12A	±5%	50mV
+12V	0.05A	12A	±5%	120mV
-12V	0A	0.3A	±10%	120mV
+5Vsb	0A	2A	±5%	50mV

* The overall output power is 180W maximum.
* The total output power for +3.3V & +5V is 61W maximum.

GENERAL SPECIFICATIONS

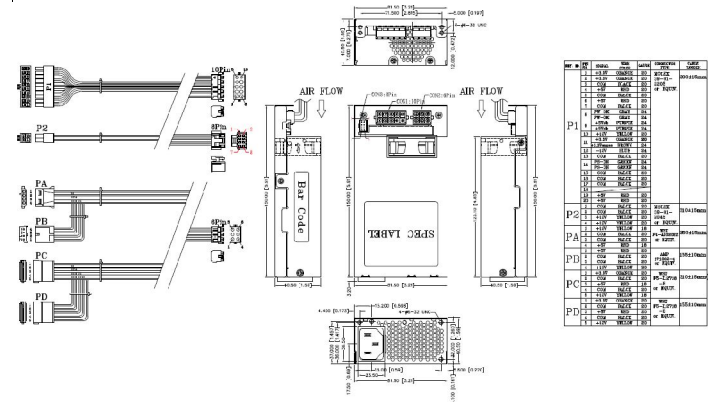
Efficiency	82% min. @ 115/230 VAC, full load
Operating Altitude	5,000 meters max.
Operating Temperature	0°C to +70°C, derated to 85% @ 60°C, 60% @ 70°C
Storage Temperature	-20°C to +80°C
Relative Humidity	5% to 95% non-condensing
Withstand Voltage	1,800 VAC, input-ground
MTBF	150K hours minimum at full load & 25°C ambient, calculated per MIL-HDBK-217F

STANDARDS & COMPLIANCE

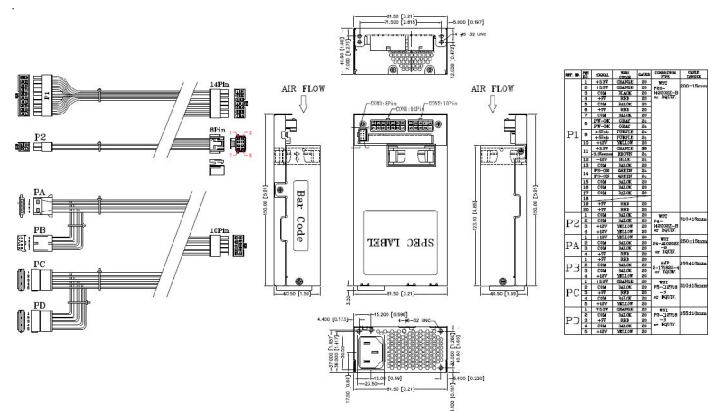
EMI/EMC	FCC, EN 55032 & CISPR 32, Class B conducted & radiated
Safety Standards	UL/IEC/EN 62368-1
Agency Approvals	UL, cUL, TUV, CCC, CB, CE
Other Compliance	RoHS, ErP, 80 PLUS

MECHANICAL SPECIFICATIONS

TIPC180-FX



TIPC180-FXM



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