



FEATURES

- 90~264 VAC Universal Input
- 250W Continuous Power
- 0.9 Active Power Factor
- Thermally-Controlled Cooling Fan
- No Load Power Consumption < 0.5W

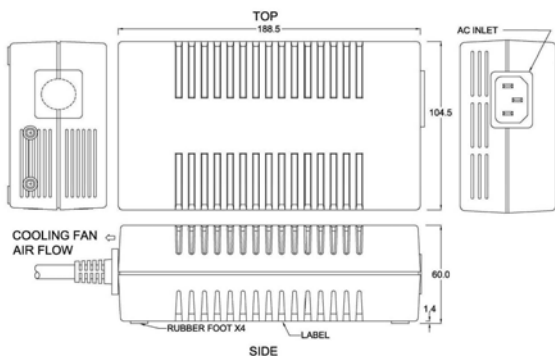
ELECTRICAL SPECIFICATIONS

Input Voltage	90~264 VAC
Input Frequency	47~63 Hz
Input Current	3.5A (rms) @ 90 VAC, 1.5A (rms) max. @ 264 VAC
Earth Leakage Current	228µA max. @ 264 VAC
Power Factor	0.9 min. at full load, 115 VAC/230 VAC
No Load Power Consumption	0.5W max.
Output Voltage, 12V~48V	CEC & Energy Star Level V
Output Current	See table
Output Power	250W
Voltage Regulation	±5%
Ripple and Noise	See table

GENERAL SPECIFICATIONS

Efficiency	87% min. at avg. load, 115/230 VAC
Switching Frequency	60~65KHz
Hold-up Time	16ms min. typical at full load, 115 VAC
Operating Temperature	-20°C to +40°C
Storage Temperature	-20°C to +85°C
Operating Humidity	10% to 95%
Short-Circuit Protection	Auto-recovery
Over-Load Protection	Auto-recovery
Over-Voltage Protection	Latch, AC recycle
Withstand Voltage	5656VDC from input to output 2121VDC from input to ground
MTBF	140K hrs minimum at full load and 25°C ambient, calculated per MIL-HDBK-217F

MECHANICAL SPECIFICATIONS



Notes:

1. Dimensions: mm
2. AC Inlet: IEC320/C14 standard
3. Tolerance: ±0.5mm
4. Standard Output Cable: AWM 2464 #16AWG/6C + Shielding, UL 80°C 300V VW-1, 1000±30mm min. for 16V~48V output; 800±30mm for 12V output.
5. Weight: 1060 grams



STANDARDS & COMPLIANCES

EMC Standards	EN60601-1-2, EN55011 Class B, FCC Part 18 Class B
Safety Standards	UL60601-1, EN60601-1, CSA C22.2 No. 60601-1, IEC60601-1
Agency Approvals	UL, cUL, TUV, CB, CE
Other Compliances	RoHS, CEC Level V, Energy Star Level V

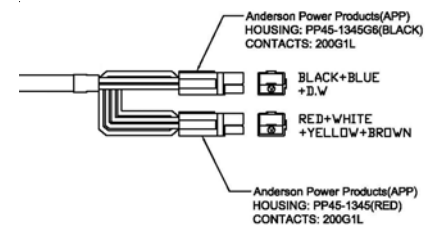
MODELS LIST

Product No.	Output Voltage	Output Current	Ripple & Noise (Vp-p)*	Max. Output Power
TMA250-12	12V	20.83A	240mV	250W
TMA250-16	16V	15.63A	300mV	250W
TMA250-19	19V	13.16A	300mV	250W
TMA250-20	20V	12.5A	300mV	250W
TMA250-24	24V	10.42A	300mV	250W
TMA250-36	36V	6.94A	300mV	250W
TMA250-48	48V	5.21A	300mV	250W

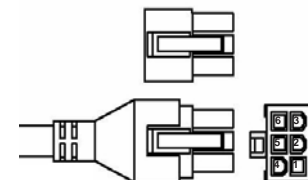
* Peak-to-peak with 20MHz bandwidth with a tantalum 10µF in parallel with 0.1µF ceramic capacitor.

OUTPUT CONNECTORS & PINOUTS

APP CONNECTOR	
COLOR	FUNCTION
RED	+Vo
WHITE	+Vo
BLACK	GND
BLUE	GND
D.W	GND



6-PIN CONNECTOR	
PIN	FUNCTION
1	GND
2	GND
3	GND
4	+V
5	+V
6	+V



Notes:

1. Output Connector: Molex Mini-Fit 6-pin connector, P/N 39-01-2060 or equivalent
2. Mating Connector: Molex P/N 39-01-2061 or equivalent
3. Add suffix "A" to the P/N to order units furnished with APP connector.
4. Contact TRUMPower for other output connector options.