TRUMPower

TWA250 Series

250W AC/DC Desktop Power Adapter

FEATURES

- 90~264 VAC Universal Input
- 0.9 Active Power Factor
- 40mm Cooling Fan with Fan Speed Control
- No Load Power Consumption of 500mW Maximum



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
Power Factor ..... 0.9 min. at full load, 115/230 VAC
Maximum Output Power 250W
Output Voltage, 12V~48V ..... CEC & Energy Star Level V
Voltage Regulation ..... ±5%
Ripple and Noise ..... See table

GENERAL SPECIFICATIONS

Efficiency ..... 87% min. at avg. load, 115/230 VAC
Switching Frequency ..... 60~65 Khz
Hold-up Time ..... 16ms min. typical at full load,
115 VAC nominal line
Operating Temperature ..... -20°C to +40°C
Storage Temperature ..... -20°C to +85°C
Operating Humidity ..... 10% to 90%
Short-Circuit Protection ..... Auto-recovery
Over-Load Protection ..... Auto-recovery
Over-Voltage Protection ..... Latch, AC recycle
MTBF ..... 140K hrs minimum at full load
and 25°C ambient, calculated
per MIL-HDBK-217F

MODELS LIST

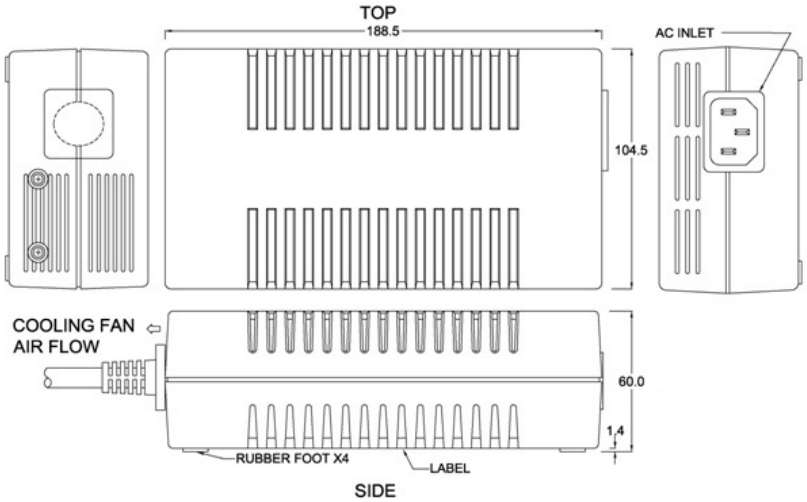
Part No.	Output Voltage	Output Current	Ripple & Noise (Vp-p)*	Max. Output Power
TWA250-12	12V	20.83A	240mV	250W
TWA250-16	16V	15.63A	300mV	250W
TWA250-19	19V	13.16A	300mV	250W
TWA250-20	20V	12.50A	300mV	250W
TWA250-24	24V	10.42A	300mV	250W
TWA250-36	36V	6.94A	300mV	250W
TWA250-48	48V	5.21A	300mV	250W

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

STANDARDS & COMPLIANCES

EMC Standards ..... EN55022, FCC, CISPR22, Class B
Safety Standards UL60950-1, EN60950-1,
CSA 22.2 No. 60950-1,
IEC60950-1
Agency Approvals ..... UL, cUL, TUV, CB, CE
Other Standards ..... CEC, Energy Star Level V, RoHS

MECHANICAL SPECIFICATIONS



Notes

1. Dimensions: mm
2. AC Inlet: IEC320/C14 standard
3: Standard Output Connector: APP connector (D706C) or local Mini-fit 6P connector (D731A).
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

Tumbler Technologies + TRUMPower

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