



**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**

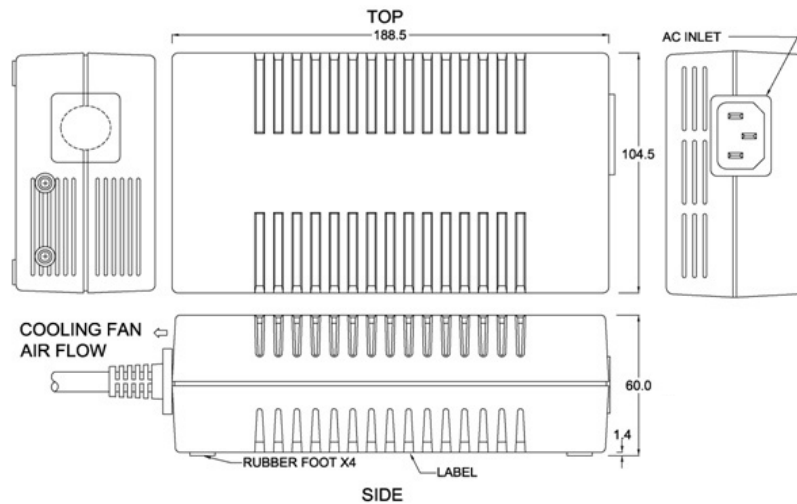
Part No.	Output Voltage	Output Current	Ripple & Noise (Vp-p)*	Max. Output Power
TWA250-12	12V	20.83A	240mV	250W
TWA250-16	16V	15.63A	300mV	250W
TWA250-19	19V	13.16A	300mV	250W
TWA250-20	20V	12.50A	300mV	250W
TWA250-24	24V	10.42A	300mV	250W
TWA250-36	36V	6.94A	300mV	250W
TWA250-48	48V	5.21A	300mV	250W

\* 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