



- Active Power Factor Correction
- Efficiency Level V
- >87% Average Efficiency
- <500mW No Load Power Consumption
- Short Circuit Protection
- Overload Protection
- Overvoltage Protection
- No Load Operation
- 100% Burn-In/Hi-Pot Testing
- RoHS Compliant

Electrical Specifications

Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	3.5A @ 90VAC / 1.5A @ 264VAC
Power Factor	Per EN61000-3-2
Leakage Current	<228 μ A @ 264VAC
Safety Isolation	4.0kVAC Input to Output 1.5kVAC Input to Ground

Environmental & Operating

Operating Temperature	-20°C to +50°C, derate power above 50C
Storage Temperature	-20°C to +85°C
Forced Air Cooling	40mm Temperature Controlled Internal Fan
Humidity	10% - 95% non-condensing
MTBF:	>140,000 @ full load and 25°C per MIL-HDBK-217F

Output

Total Output	250W
Output Voltage	See table
Hold Up Time	16mS minimum/full load/115VAC
Efficiency	>87% average
Minimum Load	No minimum load
Transient Response	+/-5% maximum with 100% load step 200mA per usec maximum
Turn-On Delay	2 seconds maximum

Compliance

Safety Approvals

USA	UL60601-1
Canada	CSA C22.2 No. 60601-1
Europe	TUV EN60601-1 CB Report IEC60601-1
EMC:	FCC Part 18 Class B Radiated & Conducted EN60601-1-2: 2001+A1: 2006 EN55011: 2007
Harmonic Currents	IEC 61000-3-2: 2006, Class D
Voltage Flicker	IEC 61000-3-3: 1995+A1: 20001+A2: 2005
Electrostatic Discharge	IEC 61000-4-2: 1995+A1: 1998+A2: 2000
Radiated Immunity	IEC 61000-4-3: 2006
EFT/Burst	IEC 61000-4-4: 2004
Surge Immunity	IEC 61000-4-5: 2005
Conducted Immunity	IEC 61000-4-6: 2007
Magnetic Field	IEC 61000-4-8: 1993+A1: 2000
Dips / Interruptions	IEC 61000-4-11: 2004

Protection

Overvoltage	Set at 110%-140% of nominal.
Short Circuit	Latching mode. Cycle AC for recovery
Overload	Hiccup mode. Auto recovery

General

Dimensions	7.42"L x 4.1"W x 2.36"H
AC Input Receptacle	IEC320-C14
DC Output Plug	Molex (or equivalent) 6-pin Mini Fit
Weight	2.34 pounds



Models and Ratings Chart

Model	Voltage	Current	Total Power	Regulation	Ripple & Noise (p-p)
PPWAMD250-12	12VDC	20.83A	250W	+5%	240mV
PPWAMD250-13-1	16VDC	15.63A	250W	+5%	300mV
PPWAMD250-13-2	19VDC	13.16A	250W	+5%	300mV
PPWAMD250-13-3	20VDC	12.5A	250W	+5%	300mV
PPWAMD250-14	24VDC	10.42A	250W	+5%	300mV
PPWAMD250-17	36VDC	6.94A	250W	+5%	300mV
PPWAMD250-18	48VDC	5.21A	250W	+5%	300mV

NOTE:
RIPPLE & NOISE MEASURED PEAK-TO-PEAK 20 MHZ BANDWIDTH WITH A 10µF CAPACITOR IN PARALLEL WITH A 0.1µF CAPACITOR.

Mechanical Outline / Output Cable and Pin Assignment

