PEAMD250 Power Supply Series (250W)

Features:

- IEC 60601-1-2-4th Edition EMC Compliant
- Class I and Class II versions
- Meets Efficiency Level VI Requirements
- <210mW No Load Power Consumption
- BF Rated Output on Class II Versions
- LED on indicator
- Overload Protection
- Short Circuit Protection
- Over-temperature Protection
- No Load Operation

Description:

The PEAMD250 series of AC/DC switching power supplies are for 220-250 watts of continuous output power. They are available as Class or Class II devices with the inlet of the IEC320/C14, C6, C8, or C18 to mate with an interchangeable cord for world-wide use. All models meet FCC, EN55011, and CISPR11 class B emission limits, and comply with UL, IEC, CE, and more.

Model No.	Output Voltage	Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise (Vp-p)[1]
PEAMD250-12	12VDC	18.33A	220W	±5%	±2%	240mV
PEAMD250-13	15VDC	14.66A	220W	±5%	±2%	300mv
PEAMD250-13-1	18VDC	12.22A	220W	±5%	±2%	360mV
PEAMD250-13-2	19VDC	13.15A	250W	±5%	±2%	380mV
PEAMD250-14	24VDC	10.41A	250W	±5%	±2%	480mV
PEAMD250-17	36VDC	6.94A	250W	±5%	±2%	720mV
PEAMD250-18	48VDC	5.20A	250W	±5%	±2%	960mV

Notes: C14 Standard Receptacle
For C8 input receptacle, model numbers are PEAMD250SF, For Example PEAMD250SF-12. For C6 input receptacle, model numbers are PEAMD250S. For C18 input receptacle, model numbers are PEAMD250F.

Specifications	
Input	
Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	3.5A max at 115VAC 2.5A max at 230VAC
Inrush Current	<70A peak at 115VAC, <140A peak at 230VAC, cold start, 25ºC
Power Factor	>0.9
Output	
Total Output Power	220-250W (see table for details)
Hold Up Time	>10mS at full load for 115VAC nominal
Earth Leakage Current	<110µA max. at 264VAC 60Hz
Touch Current	<100µA max. at 264VAC 60Hz
Average Active Efficiency	>88% with 115VAC/60Hz & 230VAC/50Hz input voltage (meets DOE level VI requirements)
No Load Power Consumption	<210mW
Turn on Delay	<3 seconds
Protection Features	
Short Circuit	Hiccup mode. Auto recovery
Overvoltage	110%-150% of nominal. Auto recovery
Overload	105%-150% . Auto recovery
Over Temperature	Cycle AC power to reset
Ingress	IP22 Compliant
Environmental	
Operating Temperature	0°C to 60°C (Derate output power linearly from 100% at 40°C to 50% at 60°C)
Storage Temperature	-20ºC to +85ºC
Humidity	10% - 90% non-condensing
Altitude	<5000m operational and storage
General Specifications	
Dimensions	7.2” (182mm) L X 3.3” (84.55mm) W X 1.8” (46mm) H
AC Input Receptacle	IEC60320 C14. Optional C8, C6, C18
DC output Plug	6 pin Molex Mini-fit. Others available upon request
Weight	2.2lbs
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25A°C ambient

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Specifications Continued	
Safety	
Approved to USA/Canada	ANSI/AAMI ES60601-1 cUL/UL 60601-1
Approved to Europe	TUV EN60601-1 3rd edition CB Report
*Consult with TT Electronics for information on additional country safety approvals	
EMC	
EMC (IEC60601-1-2:2014)	FCC Class B Radiated & Conducted CISPR11 Class B Radiated & Conducted EN55011 Class B Radiated & Conducted
Harmonic Currents Voltage Flicker Electrostatic Discharge Radiated Immunity EFT Surge Immunity Conducted Immunity Power Frequency Magnetic Field Immunity Dips/Interruptions	IEC 61000-3-2 IEC 61000-3-3 IEC 61000-4-2: ±15kV Air, ±8kV contact IEC 61000-4-3: 10V/m IEC 61000-4-4: ±2kV IEC 61000-4-5: 1kV diff, 2kV com IEC 61000-4-6: 10Vrms IEC 61000-4-8: 30A/m IEC 61000-4-11: Voltage dip immunity, 30% reduction for 500ms, 100% reduction for 10ms

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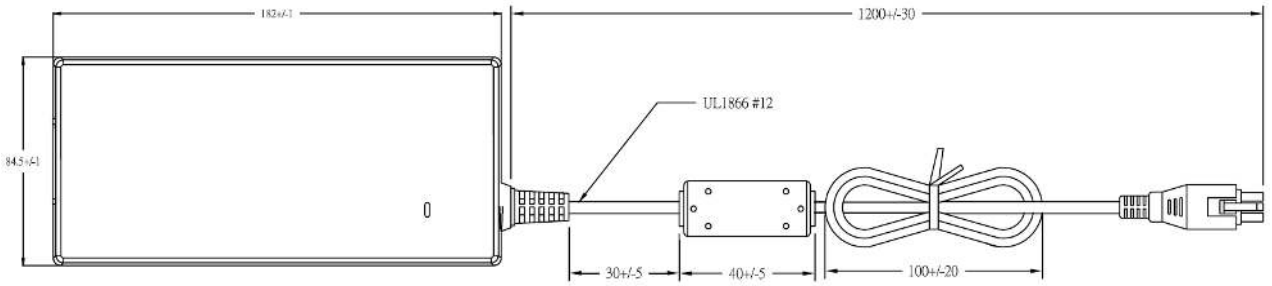
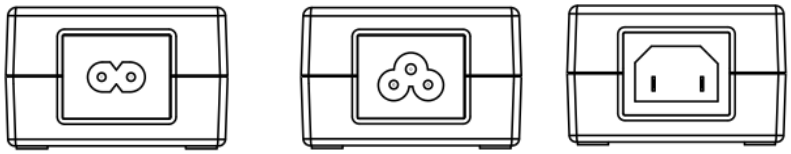
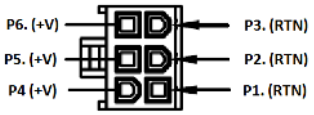
Diagrams

Mechanical Outline

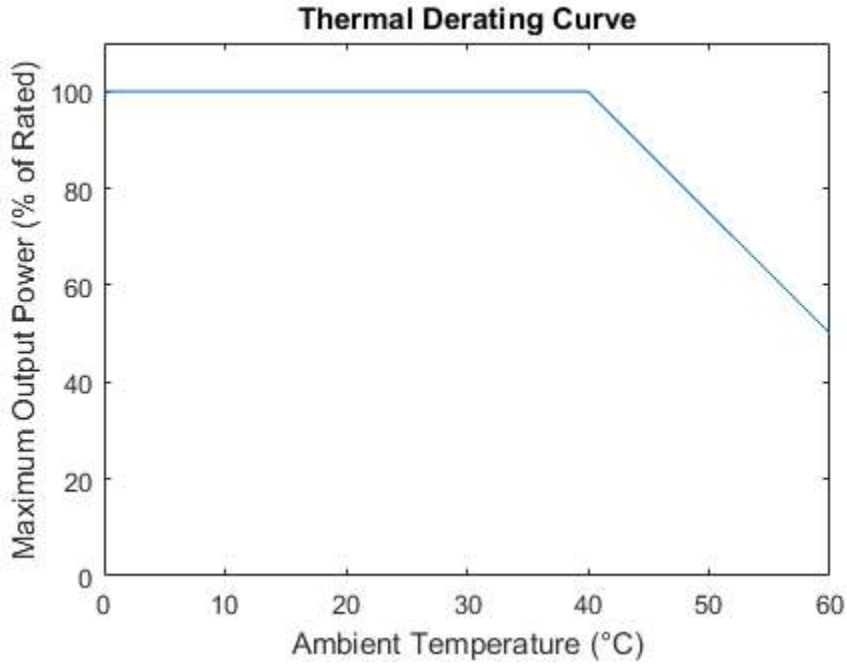




C8 C6 C18



Output Return Connected to Earth Ground on Class I Models.



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