PEAD250 Power Supply Series (250W)



Features:

- Class I and Class II versions
- Efficiency Level VI
- CoC Tier 2**
- LED on Indicator
- **Overload Protection**
- **Short Circuit Protection**
- Over-temperature Protection
- 100% Burn-In/Hi-Pot Testing
- **RoHS Compliant**



















Description:

The PEAD250 series of AC/DC switching power supplies are for 220-250 watts of continuous output power. They are available as Class I 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, EN55022, and CISPR22 class B emission limits, and comply with UL, IEC, DOE level VI, CE, and more.

Model	Voltage	Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise (P-P)
PEAD250-12	12VDC	18.33A	220W	±5%	±2%	240mV
PEAD250-13	15VDC	14.66A	220W	±5%	±2%	300mV
PEAD250-13-1	18VDC	12.22A	220W	±5%	±2%	360mV
PEAD250-13-2	19VDC	13.15A	250W	±5%	±2%	380mV
PEAD250-14	24VDC	10.41A	250W	±5%	±2%	480mV
PEAD250-17	36VDC	6.94A	250W	±5%	±2%	720mV
PEAD250-18	48VDC	5.20A	250W	±5%	±2%	840mV
PEAD250-19-1	56VDC	4.46A	250W	±5%	±2%	840mV

NOTES: C14 Standard Receptacle

For C8 input receptacle, model numbers are PEAD250SF, For Example PEAD250SF-12 For C6 input receptacle, model numbers are PEAD250S, For Example PEAD250S-12 For C18 input receptacle, model numbers are PEAD250F, For Example PEAD250F-12

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	Specifications			
Input				
Input Voltage	90-264VAC			
Input Frequency	47-63 Hz			
Input Current	3.5A max at 115 VAC 2.5A max at 230 VAC			
Inrush Current	<70A peak at 115VAC <140A peak at 230VAC, cold start, 25°C			
Safety Isolation	3.0kVAC Input to Output 1.5kVAC Input to Ground			
Leakage Current	3500μA max. at 240VAC			
Power Factor	>0.9			
	Output			
Total Output Power	220-250W See Table			
Output Voltage	See Table			
Hold Up Time	≥10mS typical/full load/115VAC			
Average Active efficiency	>88% with 115VAC/60Hz & 230Vac/50Hz input voltage (CEC level VI compliant)			
No Load Power Consumption	<210mW at 230VAC/50Hz			
Turn on Delay	<3 seconds			
	Protection Features			
Overvoltage Protection	110%-150% Max. of nominal. Auto recovery			
Overcurrent Protection	110%-150% of maximum output current. Auto recovery			
Short Circuit	Hiccup mode. Auto recovery			
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			
Operating Humidity	10% - 90% non-condensing			
Altitude	<5000m operational and storage			
	General Specifications			
Dimensions	7.2"(182mm)L x 3.3"(84.5mm)W x 1.8"(46mm)H			
Weight	2.2lb			
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient			
AC Input Receptacle	IEC60320 C14, C6, C8			
DC output Plug	6-pin Molex mini-fit, #39-01-2060 with female terminals #5556. Mates with Molex plug 39-01- 2066 and male terminal #5558. Other connectors available upon request.			

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Specifications Continued Safety					
Approved to 03Ay canada	UL/cUL62368-1 (Pending)				
	TUV EN60950-1/A12: 2011				
Approved to Europe	CB Report				
	EN62368-1 (In Process)				
*Consult with TT Electronics for information on additional control of the second control	onal country safety approvals				
	EMC				
EMC (IEC60601-1-2:2014)	FCC Class B Radiated & Conducted CISPR22 Class B Radiated & Conducted EN55022 Class B Radiated & Conducted EN55024: 2010				
Harmonic Currents	IEC 61000-3-2: Class A, D				
Voltage Flicker	IEC 61000-3-3: 2008				
Electrostatic Discharge	IEC 61000-4-2: 8kV Air, 4kV contact				
Radiated Immunity	IEC 61000-4-3: 3V/m				
EFT	IEC 61000-4-4: +/-1kV				
Surge Immunity	IEC 61000-4-5: 2005 1kV diff, 2kV com				
Conducted Immunity	IEC 61000-4-6: 3Vrms				
Power Frequency Magnetic Field Immunity	IEC 61000-4-8: 1A/m				
Dips/Interruptions	IEC 61000-4-11: 30% reduction for 500ms>95% reduction for 10ms.				

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Diagrams

Mechanical Outline



