PEAMD120 Power Supply Series (120W)



Features:

- IEC 60601-1-2 4th Edition EMC Compliant
- Class I and Class II Versions
- BF Rated Class II Version
- Meets Efficiency Level VI Requirements
- <210mW No Load Power Consumption
- LED on Indicator
- Overload Protection
- Short Circuit Protection
- 100% Burn-In/Hi-Pot Testing



Description:

The PEAMD120 series of AC/DC switching power supplies are for 120 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 worldwide use. All models meet FCC, EN55011, and CISPR11 class B emission limits, and comply with UL, IEC, DOE level VI, CE, and more.

Model	Output Voltage	Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise ⁶
PEAMD120-12-B2	12VDC	10A	120W	±5%	±1%	240mV
PEAMD120-13-B2	15VDC	8A	120W	±5%	±1%	240mV
PEAMD120-13-2-B2	19VDC	6.32A	120W	±5%	±1%	360mV
PEAMD120-14-B2	24VDC	5A	120W	±5%	±1%	360mV
PEAMD120-18-B2	48VDC	2.71A	130W	±5%	±1%	840mV

Notes:

C14 standard receptacle

For C8 input receptacle, model numbers are PEAMD150SF-XX. For example, PEAMD150SF-12

For C6 input receptacle, model numbers are PEAMD150S-XX. For example, PEAMD150S-12

For C18 input receptacle, model numbers are PEAMD150F-XX. For example, PEAMD150F-12



	Specifications			
Input				
Input Voltage	90-264VAC			
Input Frequency	47-63Hz			
Input Current	2.0A max. @ 115 VAC 1A max @ 230VAC			
Inrush Current	<100A @ 240VAC; cold start, 25°C			
	Output			
Total Output Power	120-130W			
Hold Up Time	>8.3mS at full load and 115/230VAC line			
Earth Leakage Current (Class I)	<110uA at 264VAC, 60Hz			
Touch Current	<100uA at 264VAC, 60Hz			
Average Active Efficiency	>88% with 115VAC/60Hz & 230Vac/50Hz input voltage (meets DOE level VI requirements)			
No Load Power Consumption	<210W			
Turn on Delay	<3 seconds			
	Protection Features			
Overvoltage Protection	150% Max. of nominal. Cycle AC power to reset after fault is re- moved			
Overload Protection	110%-150% of maximum output current. Auto recovery			
Short Circuit Protection	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			
Humidity	10% - 90% non-condensing			
Operating Altitude	5000m operational			
	General Specifications			
Dimensions	5.4"L x 2.3"W x 1.3"H			
AC input Receptacle	IEC320-C6, C8, C14 or C18			
DC Output Plug	2.5x5.5mm barrel connector			
Weight	1 pound			
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient			



Specifications Continued					
Safety					
Approved to USA/Canada	ANSI/AAMI ES60601-1 cUL ES60601-1				
Approved to Europe	TUV EN60601-1 3rd edition CB Report				
Isolation	4000VAC input to output, 2 x MOPP 1500 VAC input to ground,1 x MOPP				
*Consult with TT Electronics for information on addition	nal 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	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: 10V/ms				
Power Frequency Magnetic Field Immunity Dips/Interruptions	IEC 61000-4-8: 30A/m IEC 61000-4-11: Voltage dip immunity, 30% reduction for 500ms, 100% reduction for 10ms				



Diagrams

Mechanical Outline



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All data sheets are subject to change without notice.