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 world-wide 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 PEAMD120SF-XX. For example, PEAMD150SF-12
For C6 input receptacle, model numbers are PEAMD120S-XX. For example, PEAMD150S-12
For C18 input receptacle, model numbers are PEAMD120F-XX. For example, PEAMD150F-12

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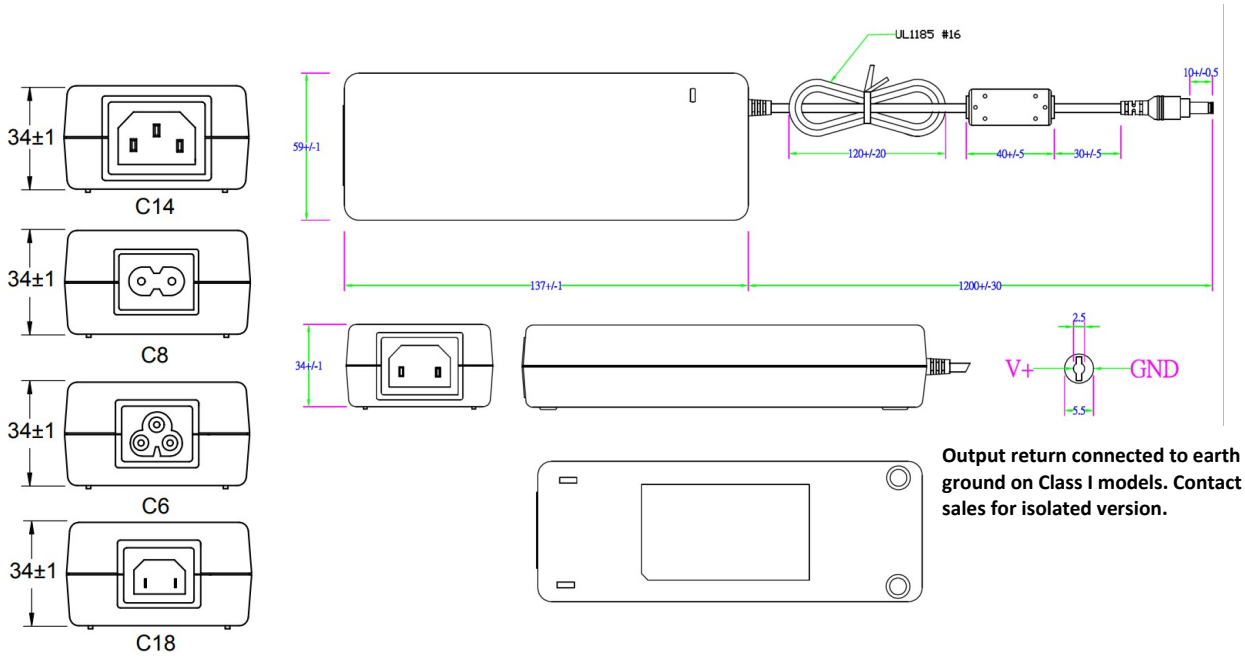
Specifications	
Input	
Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	2.0A max. @ 115 VAC 1A max @ 230VAC
Inrush Current	<100A @ 240VAC; cold start, 25°C
Output	
Total Output Power	120-130W
Hold Up Time	>8.3mS at full load and 115/230VAC line
Earth Leakage Current (Class I)	<110uA at 264VAC, 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	0ºC to +60ºC (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	UL/cUL 60601-1 UL/cUL 62368-1
Approved to Europe	TUV EN 60601-1 TUV EN 62368-1 CB IEC 60601-1 CB IEC 62368-1
Isolation	4000VAC input to output, 2 x MOPP 1500 VAC input to ground,1 x MOPP
*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

Diagrams

Mechanical Outline



Output return connected to earth ground on Class I models. Contact sales for isolated version.