

PEAMD72 Power Supply Series (72W)



Features:

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



Description:

The PEAMD72 series of AC/DC switching power supplies are for 72 watts of continuous output power. They are available as Class I or Class II devices with the inlet of the IEC60320/C14 and C8 to mate with an interchangeable cord for world-wide use. All models meet FCC, EN55011/EN55032, and CISPR11/CISPR32 class B emission limits, and comply with UL, IEC, CE requirements, and more.

Model	Voltage	Max. Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise (P-P)	Efficiency Level
PEAMD72-10-B2	5V	9.00A	45W	±6%	±1%	100mV	V
PEAMD72-11-B2	9V	5.00A	45W	±6%	±1%	100mV	V
PEAMD72-12-B2	12V	6.00A	72W	±6%	±1%	250mV	VI
PEAMD72-13-B2	15V	4.80A	72W	±6%	±1%	250mV	VI
PEAMD72-13-1-B2	18V	3.78A	68W	±6%	±1%	350mV	VI
PEAMD72-13-2-B2	19V	3.78A	72W	±6%	±1%	350mV	VI
PEAMD72-14-B2	24V	3.00A	72W	±6%	±1%	350mV	VI
PEAMD72-17-B2	36V	2.00A	72W	±6%	±1%	500mV	VI
PEAMD72-18-B2	48V	1.5A	72W	±6%	±1%	720mV	VI

C14 standard input receptacle

For C8 input receptacle, model numbers are PEAMD72SF. For example, PEAMD72SF-12-B2

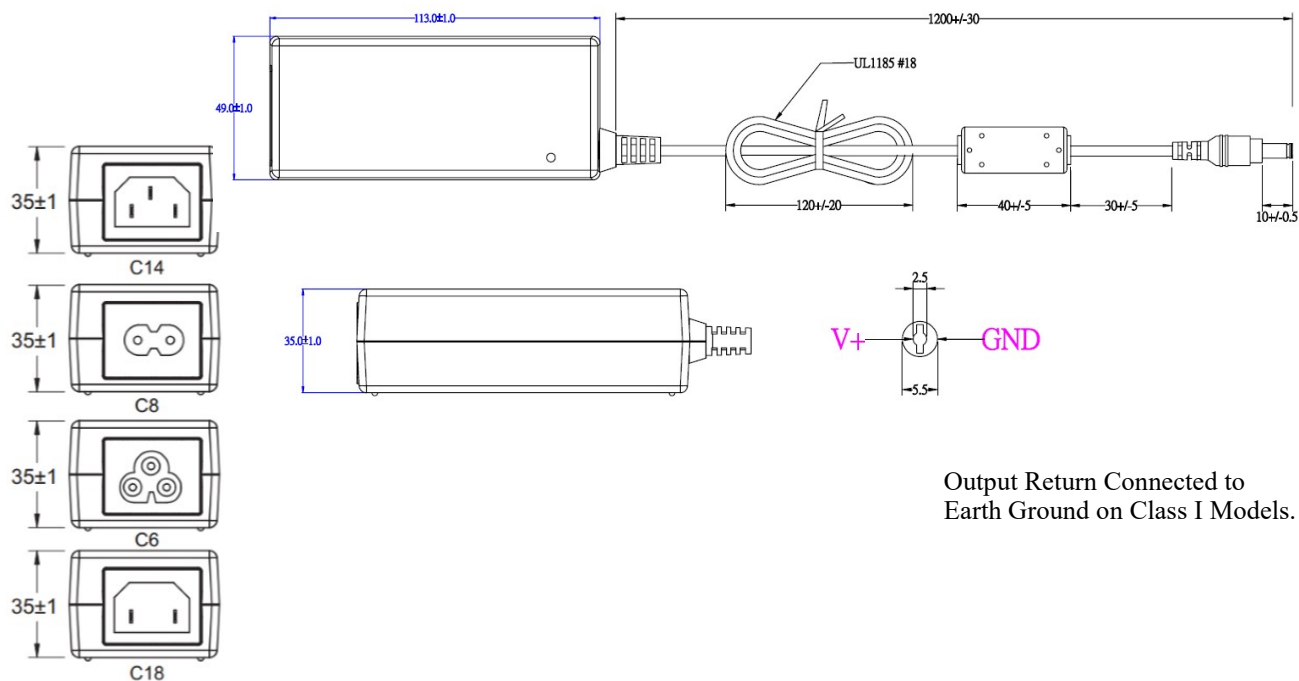
For C6 input receptacle, model numbers are PEAMD72S. For example, PEAMD72S-12-B2

For C18 input receptacle, model numbers are PEAMD72F. For example, PEAMD72F-12-B2

Specifications	
Input	
Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	2.0A max at 115VAC 1.0A max at 230VAC
Inrush Current	<120A at 230VAC, cold start, 25°C
Output	
Total Output Power	72W see table for details
Output Voltage	See table
Hold Up Time	>8.3mS at full load and 115/230VAC line
Earth Leakage Current (Class I)	<100uA max. at 264VAC, 60Hz
Touch Current	<50uA max. at 264VAC. 60Hz
Average Active Efficiency	Meets DOE level VI requirements, except for 5V and 9V models. See models and ratings chart for details.
No Load Power Consumption	<210mW
Turn on Delay	<3 seconds
Protection Features	
Overvoltage Protection	150% Max. of nominal. Cycle AC power to reset after fault is removed
Overload Protection	110-150% of maximum output current. Auto Recovery
Short Circuit Protection	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	-20°C to +85°C
Operating Humidity	10% - 90% non-condensing
Storage Humidity	5% - 95% non-condensing
Altitude	<5000m operational
General Specifications	
Dimensions	4.45"(113mm) x 1.93"(49mm) x 1.37"(35mm)
Weight	0.66lb (300g)
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient
AC Input Receptacle	IEC320 C14, C6, C8, C18
DC output Plug	2.5x5.5mm straight barrel

Specifications Continued	
Safety	
Approvals	ANSI/AAMI ES60601-1 UL 60601-1 cUL ES60601-1 TUV EN60601-1 3rd edition CB Report
Isolation	4000VAC input to output, 2 x MOPP 1500VAC input to ground, 1 x MOPP
*Consult with TT Electronics for information on additional country safety approvals	
EMC	
Electromagnetic Compatibility	FCC Class B Radiated & Conducted CISPR11 Class B Radiated & Conducted CISPR32 Class B Radiated & Conducted EN55011 Class B Radiated & Conducted EN55032 Class B Radiated & Conducted EN55035
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



Thermal Derating Curve

