

PEAD72 Power Supply Series (72W)

Features:

- Class I and Class II Versions
- Efficiency Level VI
- CoC Tier 2 **
- LED on Indicator
- Overload Protection
- Short Circuit Protection
- No Load Operation
- 100% Burn-In/Hi-Pot Testing
- RoHS Requirements



Description:

The PEAD72 series of AC/DC switching power supplies are for 72 watts of continuous power. They are available as Class I or Class II devices with the inlet of the IEC60320/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 requirements, and more.

Model	Voltage	Max Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise (P-P)	Efficiency Level
PEAD72-12-B2	12V	6.00A	72W	+/-5%	+/-3%	250mV	VI/CoC Tier 2**
PEAD72-13-B2	15V	4.80A	72W	+/-5%	+/-3%	250mv	VI/CoC Tier 2**
PEAD72-13-1-B2	18V	3.78A	68W	+/-5%	+/-3%	350mV	VI/CoC Tier 2**
PEAD72-13-2-B2	19V	3.78A	72W	+/-5%	+/-3%	350mV	VI/CoC Tier 2**
PEAD72-14-B2	24V	3.00A	72W	+/-5%	+/-3%	350mV	VI/CoC Tier 2**
PEAD72-17-B2	36V	2.00A	72W	+/-5%	+/-3%	500mV	VI/CoC Tier 2**
PEAD72-18-B2	48V	1.5A	72W	+/-5%	+/-3%	720mV	VI/CoC Tier 2**
PEAD72-19-1-B2	56V	1.28A	72W	+/-5%	+/-3%	840mV	VI/CoC Tier 2**

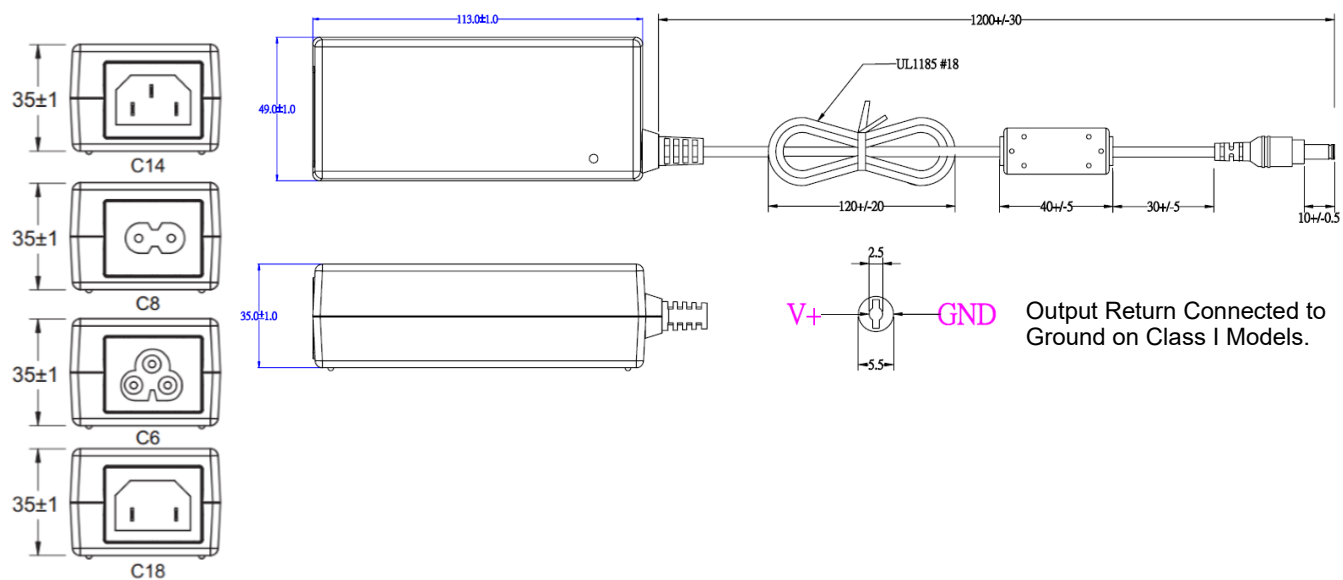
C14 standard input receptacle

For C8 input receptacle, model numbers are PEAD72SF. For example, PEAD72SF-12-B2 For C6 input receptacle, model numbers are PEAD72S. For example, PEAD72S-12-B2 For C18 input receptacle, model numbers are PEAD72F. For example, PEAD72F-12-B2

Specifications	
Input	
Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	1.5A max at 115 VAC 0.75A max at 230 VAC
Inrush Current	<100A peak at 240VAC, cold start, 25°C
Output	
Total Output Power	See Table
Output Voltage	See Table
Hold Up Time	≥8.3mS
Average Active efficiency	Meets DOE level VI requirements COC Tier 2
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
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	-20°C to +85°C
Operating Humidity	10% - 90% non-condensing
Altitude	<5000m operational and storage
General Specifications	
Dimensions	4.45"(113mm)L x 1.93"(49mm)W x 1.37"(35mm)H
Weight	1lb
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient
AC Input Receptacle	IEC60320 C14, C6, C8, C18
DC output Plug	2.5x5.5mm barrel connector

Specifications Continued	
Safety	
Approved To USA, CANADA	UL60950-1 cUL60950-1 UL/cUL62368-1 (Pending)
Approved to Europe	TUV EN60950-1/A12: 2011 CB Report EN62368-1
*Consult with TT Electronics for information on additional country safety approvals	
EMC	
Emissions	FCC Class B Radiated & Conducted CISPR22 Class B Radiated & Conducted EN55022 Class B Radiated & Conducted EN55024: 2010
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: 8kV Air, 6kV contact IEC 61000-4-3: 3V/m IEC 61000-4-4: +/-1kV IEC 61000-4-5: 2005 1kV diff, 2kV com IEC 61000-4-6: 3Vrms IEC 61000-4-8: 1A/m IEC 61000-4-11: 30% reduction for 500ms, >95% reduction for 10ms.

Diagrams



Thermal Derating Curve

