

PEAD100 Power Supply Series (100W)

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 Compliant



Description:

The PEAD100 series of AC/DC switching power supplies are for 100 watts of continuous power. They are available as Class I or Class II devices with the inlet of the IEC60320/C14 or C8 to mate with an interchangeable cord for world-wide use. All models meet FCC, EN55032, and CISPR32 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)
PEAD100-12-B2	12VDC	7.50A	90W	±5%	±1%	180mV
PEAD100-13-B2	15VDC	6.00A	90W	±5%	±1%	225mV
PEAD100-13-1-B2	18VDC	5.00A	90W	±5%	±1%	270mV
PEAD100-13-2-B2	19VDC	4.73A	90W	±5%	±1%	285mV
PEAD100-14-B2	24VDC	3.75A	90W	±5%	±1%	360mV
PEAD100-17-B2	36VDC	2.77A	100W	±5%	±1%	540mV
PEAD100-18-B2	48VDC	2.08A	100W	±5%	±1%	720mV
PEAD100-19-1-B2	56VDC	1.78A	100W	±5%	±1%	840mV

Class I Standard Receptacle.

For C6 Class I Receptacle, model number is PEAD100S, for example, PEAD100S-12-B2

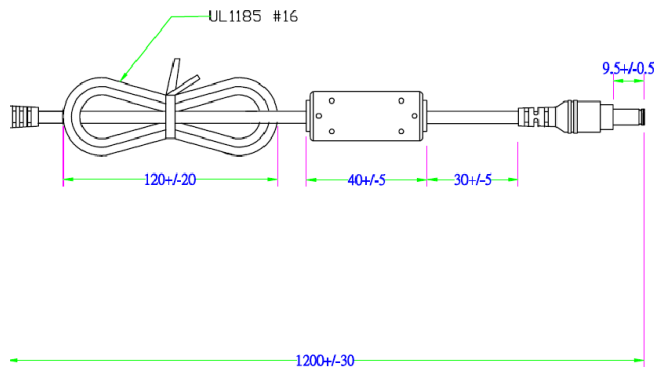
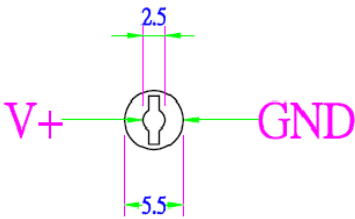
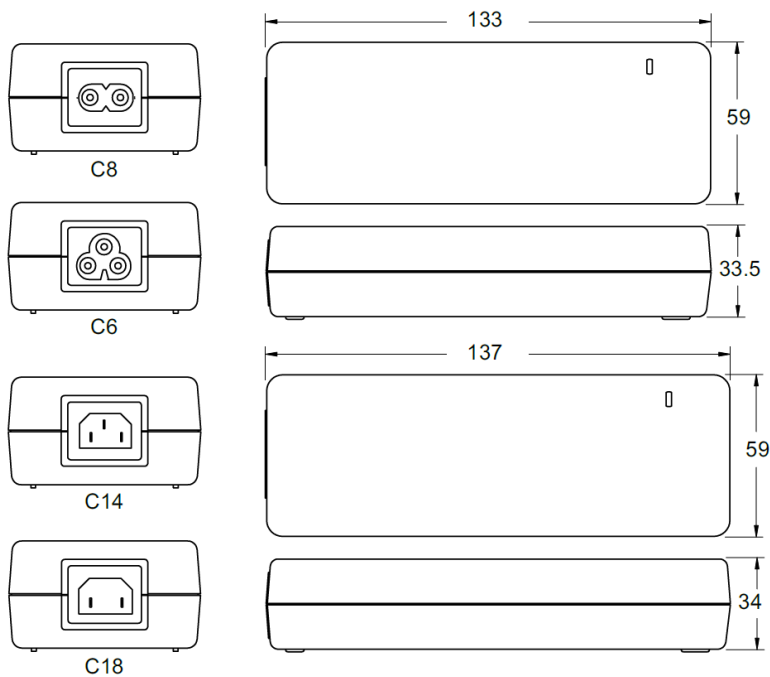
For C8 Class II Receptacle, model number is PEAD100SF, for example PEAD100SF-12-B2

For C18 Class II Receptacle, model number is PEAD100F, for example, PEAD100F-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	<60A peak at 115VAC, <120A peak at 230VAC, cold start, 25°C
Power Factor	>0.9
Output	
Total Output Power	See Table
Output Voltage	See Table
Hold Up Time	≥10mS
Average Active efficiency	>88% with 115VAC/60Hz & 230Vac/50Hz input voltage (DOE level VI compliant) 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	5.4"(137mm)L x 2.3"(59mm)W x 1.3"(34mm)H 5.2" (133mm)L for C8 version
Weight	1lb
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient
AC Input Receptacle	IEC60320 C14, C8
DC output Plug	2.5x5.5mm barrel connector

Specifications Continued	
Safety	
Approvals	UL/cUL62368-1 TUV EN62368-1 CB Report
*Consult with TT Electronics for information on additional country safety approvals	
EMC	
Emissions	FCC Class B Radiated & Conducted CISPR32 Class B Radiated & Conducted EN55032 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



Output Return Connected to Ground on Class I Models.

