PEAMD100 Power Supply Series (100W)

Features:

- IEC 60601-1-2 4th Edition EMC compliant
- Class I and Class II Versions Available
- Meets Efficiency Level VI Requirements
- <210mW No Load Power Consumption
- 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 90-100 watts of continuous output power. They are available as Class I or Class II devices with the inlet of the IEC320/C14 or C8 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	Voltage	Max. Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise[6]
PEAMD100-12-B2	12VDC	7.50A	90W	±5%	±1%	180mV
PEAMD100-13-B2	15VDC	6.00A	90W	±5%	±1%	225mV
PEAMD100-13-1-B2	18VDC	5.00A	90W	±5%	±1%	270mV
PEAMD100-14-B2	24VDC	3.75A	90W	±5%	±1%	360mV
PEAMD100-17-B2	36VDC	2.77A	100W	±5%	±1%	540mV
PEAMD100-18-B2	48VDC	2.08A	100W	±5%	±1%	720mV

Notes:
C14 Standard Receptacle.
For C8 Class II Receptacle, model number is PEAMD100SF, for example PEAMD100SF-12-B2 C6 and C18 input connectors available. Please contact sales for details.

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Specifications	
Input	
Input Voltage	90-264 VAC
Input Frequency	47-63 Hz
Input Current	1.5A max at 115 VAC 0.75A max at 230 VAC
Inrush Current	<60A peak at 115 VAC <120A peak at 230 VAC, cold start, 25ºC
Power Factor	>0.9
Output	
Total Output Power	90-100W (See Tables)
Hold Up Time	>10mS at full load and 115/230VAC line
Turn on Delay	<3 seconds
Average Active efficiency	>88% with 115VAC/60Hz & 230Vac/50Hz input voltage (meets DOE level VI
No Load Power Consumption	<210mW
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 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 25ºC 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
*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 Class D 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: 3Vrms IEC 61000-4-8: 30A/m IEC 61000-4-11: 70% reduction for 416ms >95% reduction for 10ms.

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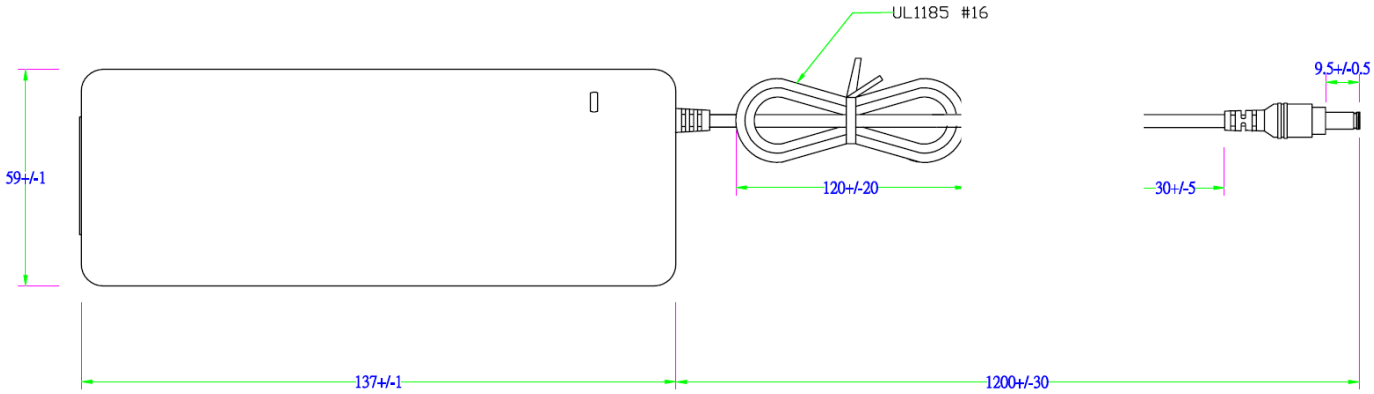
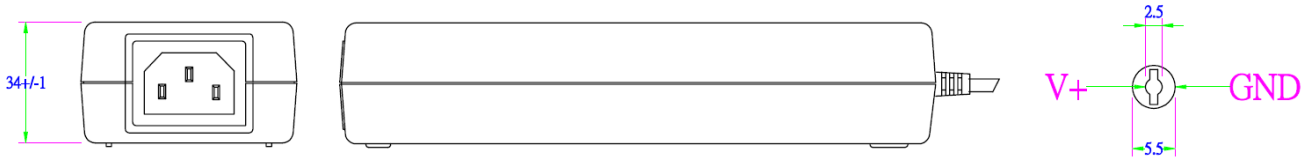
Diagrams

Mechanical Outline





C8 Case Dimensions