

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.

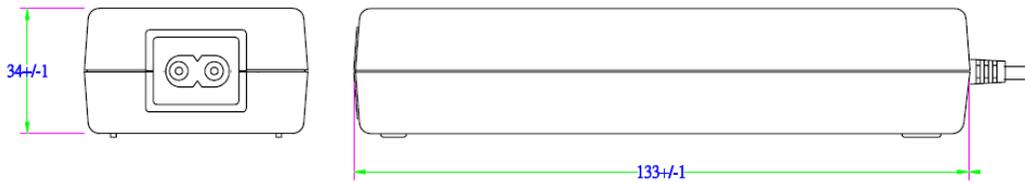
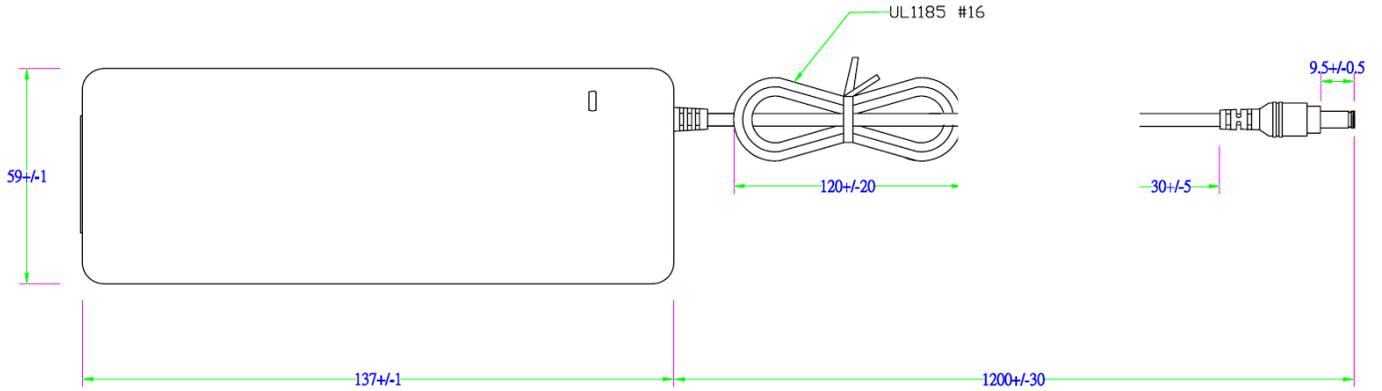
Please contact sales for details.

| 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, 25°C |
| 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 removed |
| Overload Protection | 110%-150% of maximum output current. Auto Recovery |
| Short Circuit Protection | 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 |
| 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 25°C 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. |

Diagrams

Mechanical Outline



Thermal Derating Curve

