



\*Note: Country specific approvals may not apply to all models shown. Please consult factory.

- IEC 60601-1-2 4<sup>th</sup> 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

### Electrical Specifications

#### Input

|                 |  |
|-----------------|--|
| Input Voltage   | 90-264VAC  |
| Input Frequency | 47-63 Hz   |
| Input Current   | 1.5A max at 115VAC<br>0.75A max at 230VAC                      |
| Inrush Current  | <60A peak at 115VAC,<br><120A peak at 230VAC, cold start, 25°C |

#### Output

|                           |   |
|---------------------------|---|
| Total Output              | 90-100W (see table for details)   |
| Output Voltage            | See table   |
| Hold Up Time              | >10mS at full load and 115/230VAC line                                    |
| Average Active efficiency | >88% with 115VAC/60Hz & 230Vac/50Hz<br>input voltage (meets DOE level VI) |
| No Load Power Consumption | <210mW  |
| Turn on Delay             | <3 seconds  |

#### Protection

|               |  |
|---------------|--|
| Overvoltage   | 150% Max. of nominal. Cycle AC power to reset after fault is removed |
| Overload      | 110%-150% of maximum output current. Auto recovery                   |
| Short Circuit | Hiccup mode. Auto recovery   |
| Ingress       | IP22 Compliant   |

#### Environmental & Operating

|                       |   |
|-----------------------|---|
| 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  |
| Altitude              | <5000m operational and storage  |
| MTBF:                 | >100,000 hours per MIL-HDBK-217F at full load and 25°C ambient              |

#### Compliance

##### Safety Approvals

|        |  |
|--------|--|
| USA    | ANSI/AAMI ES60601-1  |
| Canada | cUL ES60601-1  |
| Europe | TUV EN60601-1 3rd edition<br>CB Report   |
| EMC:   | FCC Class B Radiated & Conducted<br>CISPR11 Class B Radiated & Conducted<br>EN55011 Class B Radiated & Conducted |

|                         |  |
|-------------------------|--|
| Harmonic Currents       | IEC 61000-3-2 Class D  |
| Voltage Flicker         | IEC 61000-3-3  |
| Electrostatic Discharge | IEC 61000-4-2: 15kV Air, 8kV contact                                 |
| Radiated Immunity       | IEC 61000-4-3: 10V/m   |
| EFT/Burst               | IEC 61000-4-4: +/-2kV  |
| Surge Immunity          | IEC 61000-4-5: 1kV diff, 2kV com                                     |
| Conducted Immunity      | IEC 61000-4-6: 3Vrms   |
| Magnetic Field          | IEC 61000-4-8: 30A/m   |
| Dips / Interruptions    | IEC 61000-4-11: 70% reduction for 416ms,<br>>95% reduction for 10ms. |

#### General

|                     |   |
|---------------------|---|
| Dimensions          | 5.4"(137mm)L x 2.3"(59mm)W x 1.3"(34mm)H<br>[ 5.2" (133mm)L for C8 version] |
| AC Input Receptacle | IEC60320 C14, C8  |
| DC output Plug      | 2.5x5.5mm barrel connector  |
| Weight              | 1lb   |

Your Partners in Power.....

Power Partners, Inc. | 43 Broad Street | Hudson, MA 01749

Tel: (978)567-9600 | Fax: (978)567-9601

Website: [www.powerpartners-inc.com](http://www.powerpartners-inc.com)

Specifications subject to change.  
PEAMD100: April 3, 2018



### Models and Ratings Chart

| Model            | Voltage | Max. Current | Total Power | Load Regulation | Line Regulation | Ripple & Noise (P-P) |
|------------------|---------|--------------|-------------|-----------------|-----------------|----------------------|
| 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   | 3.75         | 90W         | +/-5%           | +/-1%           | 360mV                |
| PEAMD100-17-B2   | 36VDC   | 2.77         | 100W        | +/-5%           | +/-1%           | 540mV                |
| PEAMD100-18-B2   | 48VDC   | 2.08         | 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.

### Mechanical Outline

