



Power Partners

PEAD90B Series 90W Power Supply



Features

- Efficiency Level VI
- <210mW No Load Power Consumption
- RoHS Compliant
- Active PFC Function
- Short Circuit Protection
- Overload Protection
- Over-temperature Protection
- No Minimum Load Required
- Class I/II Configuration
- LED on Indicator

Electrical Specifications

<p>Input</p> <p>Input Voltage: 100-240VAC Input Frequency: 47-63 Hz Input Current: 1.0A max @ 115VAC input with full load 0.5A max @ 230VAC input with full load <60A peak @ 110VAC, cold start at 25°C <120A peak @ 230VAC, cold start at 25°C Inrush Current: <60A peak @ 110VAC, cold start at 25°C <120A peak @ 230VAC, cold start at 25°C No Load Power consumption: <0.21 Watts @230VAC/60Hz</p>	<p>Environmental & Operating</p> <p>Operating Temperature: 0°C to +40°C full load, derating to 50% load at 60°C Storage Temperature: -20°C to +85°C Operating Altitude: 0 to 5,000 meters Operating Humidity: 10% - 90% non-condensing Storage Humidity: 5% - 90% non-condensing MTBF: >100,000 hours per MIL-HDBK-217F @ full load and at 25°C</p>
<p>Output</p> <p>Total Output: 90W Output Voltage: See table Hold Up Time: >10 msec @ full load and 115VAC/60Hz input Turn On Time: <3 seconds Efficiency: 88% avg. Min. @ 100~240Vac, 50/60Hz Minimum Load: No minimum load Switching Frequency: 50 kHz typical</p>	<p>Compliance</p> <p>Safety Approvals</p> <p>USA: UL60950-1 Canada: CSA C22.2 No. 601.1-M90 Europe: TUV EN60950-1 CB Report CE Mark CCC</p> <p>EMC: FCC Class B Radiated & Conducted EN55022:2010 Class B EN61000-3-2:2006+A1: 2009+A2:2009 IEC 61000-3-3: 2008 IEC 61000-4-2: 2008 IEC 61000-4-3: 2006+A1: 2008+A2: 2010 IEC 61000-4-4: 2004+A1: 2012 IEC 61000-4-5: 2005 2kV common mode, 1kV differential mode</p> <p>Conducted Immunity IEC 61000-4-6: 2008 Magnetic Field IEC 61000-4-8: 2009 Dips / Interruptions IEC 61000-4-11: 2004</p>
<p>Protection</p> <p>Overvoltage: 150% max of rated voltage. Latching mode. Cycle AC for recovery Short Circuit: Hiccup mode. Auto recovery. Overcurrent: 110%-150% of rated current. Auto-restart when fault removed. Over temperature protection: Latch off. Cycle AC for recovery.</p>	<p>General</p> <p>Dimensions: 5.39"L X 2.52"W X 1.58"H</p> <p>AC Input: C14 standard (others upon request) Output Plug: Barrel Type: 5.5mm x 2.5mm x 10mm Center positive (others upon request)</p> <p>Weight: 1.0 pound</p>

Specifications subject to change. PEAD90B July 31, 2014



Models and Ratings Chart

Model No.	Output Voltage	Max. Output Current	Max. Output Power	Load Regulation	Line Regulation	Ripple & Noise (V _{p-p})
PEAD90B-12-B2	12V	6.66A	80W	± 5%	± 1%	240mV
PEAD90B-12A-B2	12V	7.5A	90W	± 5%	± 1%	240mV
PEAD90B-13-B2	15V	6A	90W	± 5%	± 1%	240mV
PEAD90B-13-2-B2	19V	4.73A	90W	± 5%	± 1%	360mV
PEAD90B-14-B2	24V	3.75A	90W	± 5%	± 1%	360mV

C14 standard input receptacle

For C8 input receptacle, model numbers are PEAD90BSF. For example, PEAD90BSF-12

For C6 input receptacle, model numbers are PEAD90BS. For example, PEAD90BS-12

Mechanical Outline

