


CB


- Class I and Class II Versions
- Efficiency Level VI
- <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 0.75A max at 230VAC
Inrush Current	<60A peak at 115VAC, <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 input voltage (DOE level VI compliant)
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

Environmental & Operating

Operating Temperature	0°C to 40°C full load
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	UL60950-1
Canada	cUL60950-1
Europe	TUV EN60950-1/A12: 2011

EMC:

CB Report
FCC Class B Radiated & Conducted
CISPR22 Class B Radiated & Conducted
EN55022 Class B Radiated & Conducted
EN55024: 2010

Harmonic Currents Voltage Flicker Electrostatic Discharge Radiated Immunity EFT/Burst Surge Immunity Conducted Immunity Magnetic Field Dips / Interruptions

IEC 61000-3-2: Class A
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.

General

Dimensions	5.4"(137mm)L x 2.3"(59mm)W x 1.3"(34mm)H [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.....

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Models and Ratings Chart

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	4.73	90W	+/-5%	+/-1%	285mV
PEAD100-14-B2	24VDC	3.75	90W	+/-5%	+/-1%	360mV
PEAD100-17-B2	36VDC	2.77	100W	+/-5%	+/-1%	540mV
PEAD100-18-B2	48VDC	2.08	100W	+/-5%	+/-1%	720mV

C14 Standard Receptacle.

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

Mechanical Outline

