



Power Partners

PEAMD90 Series 90W Power Supply



- Efficiency Level V
- <500mW No Load Power Consumption
- Short Circuit, Overload and Overvoltage Protection
- Class I/II
- No Load Operation
- 100% Burn-In/Hi-Pot Testing
- RoHS Compliant
- UL/EN60601-1 3rd Edition

Electrical Specifications

Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	2.5A @ 100VAC
Safety Isolation	4.0kVAC Input to Output 1.5kVAC Input to Ground
Leakage Current	<100uA @ 240VAC

Output

Total Output	90W
Output Voltage	See table
Hold Up Time	≥10mS @ full load, 100VAC
Turn On Time	<3 seconds
Efficiency	≥87% average efficiency
Minimum Load	No minimum load

Protection

Overvoltage	120%-150% of rating voltage. Latching mode. Cycle AC for recovery
Short Circuit	Hiccup mode. Auto recovery.
Overcurrent	180% of rated current. Auto-restart when fault removed.

Environmental & Operating

Operating Temperature	0°C to +40°C
Storage Temperature	-20°C to +85°C
Humidity	10% - 90% non-condensing
MTBF:	>150,000 hours per MIL-HDBK-217F @ full load and at 25°C

Compliance

Safety Approvals

USA	UL60601-1-1
Canada	CSA C22.2 No. 60601-1
Europe	TUV EN60601-1 CB Report

Isolation:

4000VAC input to output, 2 x MOPP
1500 VAC input to ground, 1 x MOPP

EMC:

Harmonic Currents	FCC Class B Radiated & Conducted
Voltage Flicker	EN60601-1-2: 2001+A1: 2006 EN55011: 2007
Electrostatic Discharge	IEC 61000-3-2: 2006, Class D
Radiated Immunity	IEC 61000-3-3: 1995+A1: 2001+A2: 2005
EFT/Burst	IEC 61000-4-2: 1995+A1: 1998+A2: 2000
Surge Immunity	IEC 61000-4-3: 2006
Conducted Immunity	IEC 61000-4-4: 2004
Magnetic Field	IEC 61000-4-5: 2005
Dips / Interruptions	IEC 61000-4-6: 2007
	IEC 61000-4-8: 1993+A1: 2000
	IEC 61000-4-11: 2004

General

Dimensions	5.98"L x 2.32"W x 1.33"H
AC Input Receptacle	IEC320-C6, C8, C14 or C18
DC Output Plug	Kycon KPP-4P or equivalent
Weight	1.21 pounds

Your Partners in Power.....

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Specifications subject to change.
PEAMD90: March 24, 2014



Models and Ratings Chart

Model No.	Output Voltage	Current	Total Power	Output Regulation	Ripple & Noise (Vp-p)	Efficiency Level
PEAMD90-12	12VDC	7.5A	90W	+/-5%	300mV	V
PEAMD90-13	15VDC	6.0A	90W	+/-5%	300mV	V
PEAMD90-13-3	16VDC	5.62A	90W	+/-5%	300mV	V
PEAMD90-13-1	18VDC	5.0A	90W	+/-5%	300mV	V
PEAMD90-13-2	19VDC	4.73A	90W	+/-5%	300mV	V
PEAMD90-14	24VDC	3.75A	90W	+/-5%	300mV	V

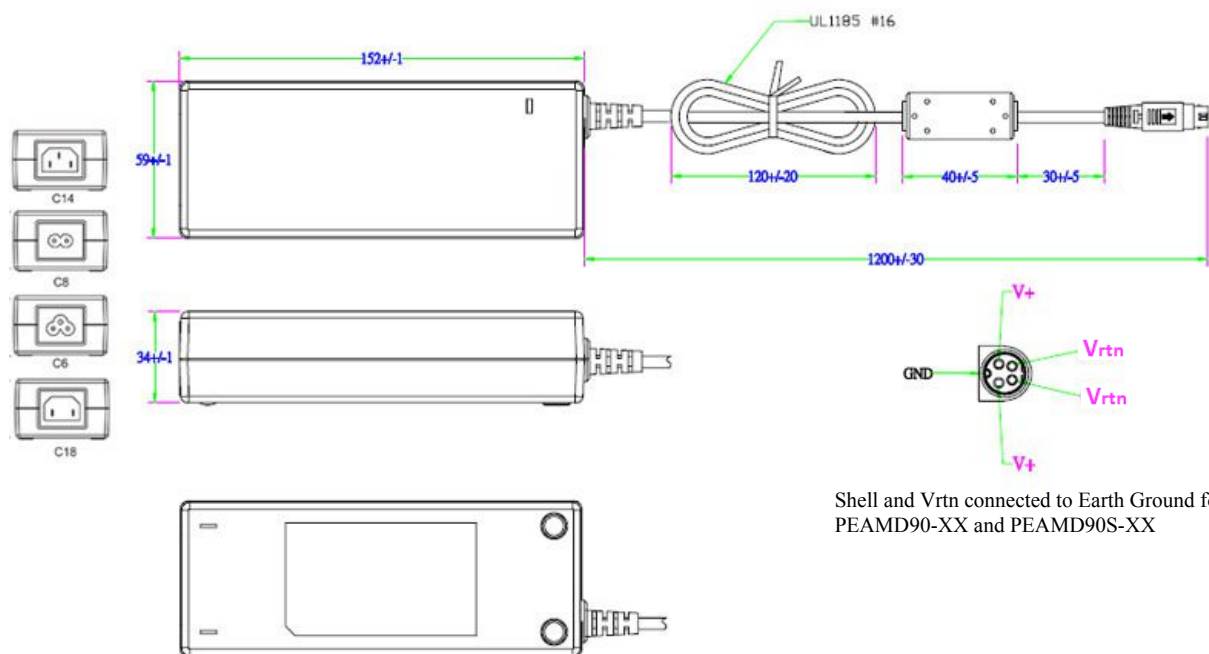
C14 standard receptacle

For C8 input receptacle, model numbers are PEAMDSF90. For example, PEAMDSF90-12

For C6 input receptacle, model numbers are PEAMDS90. For example, PEAMDS90-12

For C18 input receptacle, model numbers are PEAMDF90. For example, PEAMDF90-12

Mechanical Outline



Shell and Vrtn connected to Earth Ground for
PEAMD90-XX and PEAMD90S-XX



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