AC/DC Power

Desktop

PEAD180 Series
180W Power Supply

- Efficiency Level VI
- <210mW No Load Power Consumption
- Short Circuit Protection
- Overload Protection
- No Load Operation
- 100% Burn-In/Hi-Pot Testing
- RoHS Compliant
- IEC320-C6, C8, C14, C18 Available

Electrical Specifications

Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	1.3A @ 230VAC, 2.5A @ 115VAC
Safety Isolation	3.0kVAC Input to Output 1.5kVAC Input to Ground
Leakage Current	250µA at 240VAC
Inrush Current	<60A @110VAC <120A @220VAC
Rise Time	<50mSec at full load from 10%-90% of output voltage
Turn-on Time	≤3 seconds
Power Factor Correction	IEC61000-3-2 Class D, > 0.9 @ 115VAC, 60Hz

Output

Total Output	180W maximum
Output Voltage	See table
Hold Up Time	≥10mS typical/full load/115VAC
Efficiency	>88% average @ 115VAC, 60Hz
Minimum Load	No minimum load
No Load Power	<0.21W

Protection

Overload	Hiccup mode. Auto recovery
Overcurrent	110%-150% of rated output. Auto recovery.
Overvoltage	150% typical of rated voltage, latching mode.

Environmental & Operating

Operating Temperature	0ºC to +40ºC full load, derating to 50% load at 60C
Storage Temperature	-20ºC to +85ºC
Operating Humidity	10% - 90% non-condensing
Storage Humidity	5% - 95% non-condensing
MTBF	>100,000 hours @ full load and 25ºC per MIL-HDBK-217F
Altitude	5,000 meters operating and storage

Compliance

Safety Approvals

USA	UL60950-1
Canada	CSA C22.2 No. 60950-1
Europe	TUV EN60950-1 CE Mark CCC
EMC:	FCC Class B Radiated & Conducted CISPR22 Class B Radiated & Conducted EN55022 Class B Radiated & Conducted
Electrostatic Discharge	IEC 61000-4-2: 1995+A1: 1998+A2:
Radiated Immunity	2000 IEC61000-4-3:2006
EFT/Burst	IEC61000-4-4:2004+A1: 2012
Surge Immunity	IEC61000-4-5:2005 2kV common mode, 1kV differential mode
Conducted Immunity	IEC 61000-4-6: 2005
Dips / Interruptions	IEC 61000-4-11: 2005

General

Dimensions	7.04"L x 2.56"W x 1.57"H
AC Input Receptacle	IEC320-C14, C6, C8 or C18
Std. DC Output Plug	Kycon KPP-4P or equivalent
Weight	1.55 pounds

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

Specifications subject to change.
PEAD180: July 31, 2014

Power Partners

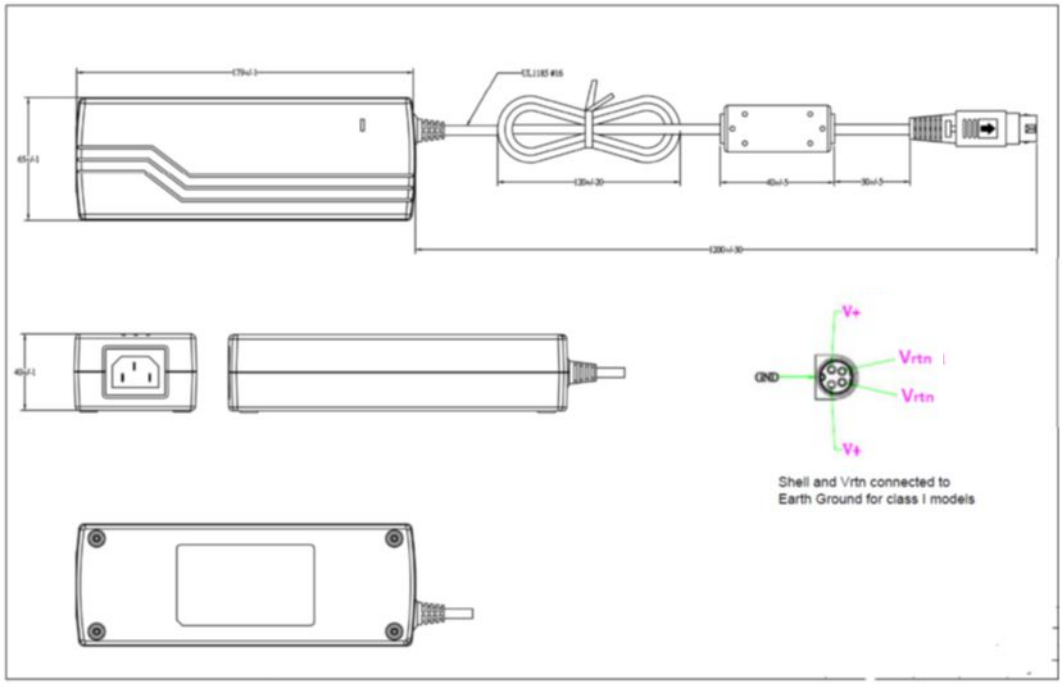
PEAD180 Series
180W Power Supply

Models and Ratings Chart

Model	Voltage	Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise (P-P)
PEAD180-12	12VDC	13.33A	160W	+/-5%	+/-1%	240mV
PEAD180-13	15VDC	10.66A	160W	+/-5%	+/-1%	240mV
PEAD180-13-2	19VDC	9.47A	180W	+/-5%	+/-1%	360mV
PEAD180-14	24VDC	7.50A	180W	+/-5%	+/-1%	360mV
PEAD180-17	36VDC	5.00A	180W	+/-5%	+/-1%	630mV
PEAD180-18	48VDC	3.75A	180W	+/-5%	+/-1%	840mV

Note: Add suffix “SF” for C8 AC inlet. Example: PEAD180SF-14
Add suffix “S” for C6 AC inlet, Example: PEAD180S-14
Add suffix “F” for C18 AC inlet, Example: PEAD180F-14

Mechanical Outline



1. Dimensions in mm.
2. Standard Kycon KPP-4P or equivalent. Optional connectors are available. Contact Power Partners Sales Department.
3. C14 input receptacle shown. Also available with a C6, C8 or C18 input receptacle. Modify Part Number to include reference, for example, PEAD180S-12 for C6.