

# PEAD150B Power Supply Series (150W)

## Features:

- 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



## Description:

The PEAD150B series of AC/DC switching power supplies are for 150 watts of continuous output power. They are available as Class I or Class II devices with the inlet of the IEC320/C14, C6, C8, or C18 to mate with an interchangeable cord for world-wide use. All models meet FCC, EN55022, and CISPR22 class B emission limits, and comply with UL, IEC, DOE level VI, CE, and more.

Model	Voltage	Max Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise (P-P)
PEAD150B-12	12VDC	12.5A	150W	±5%	±1%	240mV
PEAD150B-13	15VDC	10.00A	150W	±5%	±1%	240mV
PEAD150B-13-2	19VDC	7.89A	150W	±5%	±1%	360mV
PEAD150B-14	24VDC	6.25A	150W	±5%	±1%	360mV
PEAD150B-16	32VDC	4.68A	150W	±5%	±1%	630mV
PEAD150B-17	36VDC	4.17A	150W	±5%	±1%	630mV
PEAD150B-18	48VDC	3.13A	150W	±5%	±1%	840mV
PEAD150B-19-1	56VDC	2.67A	150W	±5%	±1%	840mV
Add suffix "SF" for C8 AC inlet. Example: PEAD150BSF-14 Add suffix "S" for C6 AC inlet, Example: PEAD150BS-14 Add suffix "F" for C18 AC inlet, Example: PEAD150BF-14						

Specifications	
Input	
Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	2A max at 115 VAC 1A max at 230 VAC
Inrush Current	<60A peak at 115VAC <120A peak at 230VAC, cold start, 25°C
Safety Isolation	3.0kVAC Input to Output 1.5kVAC Input to Ground
Leakage Current	250µA max. at 240VAC
Rise Time	<50mS at full load from 10%-90% of output voltage
Power Factor Correction	IEC61000-3-2 Class D (P.F. >0.9)
Output	
Total Output Power	150W max
Output Voltage	See Table
Hold Up Time	≥10mS typical/full load/115VAC
Average Active efficiency	>88% average
No Load Power Consumption	<210mW at 230VAC/50Hz
Turn on Delay	<3 seconds
Minimum Load	No minimum load
Protection Features	
Overvoltage Protection	150% Max. of nominal. Cycle AC power to reset after fault is removed
Overcurrent Protection	110%-150% of maximum output current. Auto recovery
Short Circuit	Hiccup mode. Auto recovery
Ingress	IP22 Compliant
Environmental	
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
Operating Humidity	10% - 90% non-condensing
Altitude	<5000m operational and storage
General Specifications	
Dimensions	7.04"L x 2.56"W x 1.57"H
Weight	1.55lb
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient
AC Input Receptacle	IEC320 C14, C6, C8
DC output Plug	4 Pin non-locking plug, mates with Kycon P/N KPJX-4S-S socket or equivalent

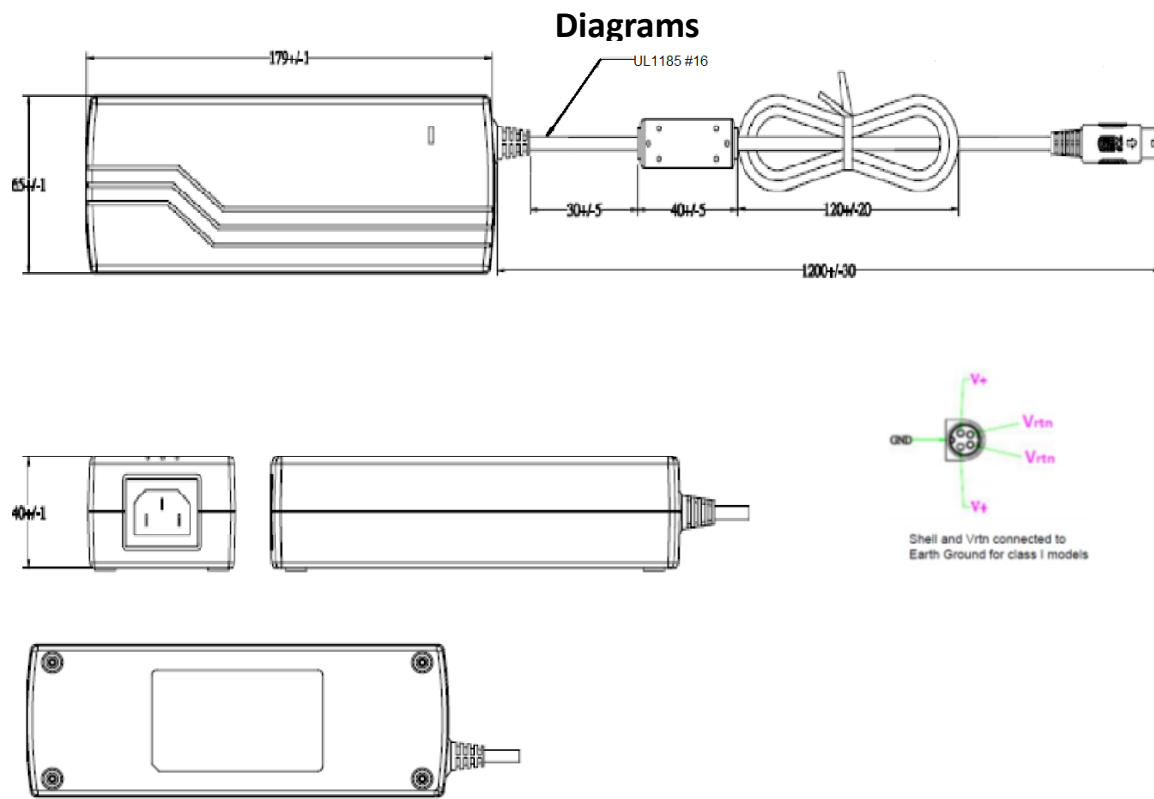
## Specifications Continued

### Safety

Approved To US, CA	UL60950-1 CSA C22.2 No. 60950-1
Approved to Europe	TUV EN60950-1 CE Mark CCC EN62368-1
*Consult with TT Electronics for information on additional country safety approvals	

### EMC

Emissions:	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: 2000
Radiated Immunity:	IEC 61000-4-3: 2006
EFT:	IEC 61000-4-4: 2004
Surge Immunity:	IEC 61000-4-5: 2005
Conducted Immunity:	IEC 61000-4-6: 2005
Dips/Interruptions:	IEC 61000-4-11: 2005



1. Dimensions in mm.
2. Standard output connector shown. Optional connectors are available.
3. Contact Power Partners Sales Department.

