PEAD50 Power Supply Series (50W)

Features:

- Class I and Class II Versions
- Efficiency Level VI
- CoC Tier 2 * *
- <210mW No Load Power Consumption
- LED on Indicator
- Overload Protection
- Short Circuit Protection
- No Load Operation
- 100% Burn-In/Hi-Pot Testing
- RoHS Compliant

Description:

The PEAD50 series of AC/DC switching power supplies are for 30-50 watts of continuous power. They are available as Class I or Class II devices with the inlet of the IEC60320/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 requirements, and more.

Model Number	Voltage	Max. Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise (P-P)	Efficiency Level
PEAD50-10-B2	5V	6.00A	30W	+/-5%	+/-3%	100mV	VI/CoC Tier 2**
PEAD50-11-B2	9V	3.33A	30W	+/-5%	+/-3%	100mV	VI/CoC Tier 2**
PEAD50-12-B2	12V	4.17A	50W	+/-5%	+/-3%	250mV	VI/CoC Tier 2**
PEAD50-13-B2	15V	3.33A	50W	+/-5%	+/-3%	250mV	VI/CoC Tier 2**
PEAD50-13-1-B2	18V	2.63A	47.3W	+/-5%	+/-3%	350mV	VI/CoC Tier 2**
PEAD50-13-2-B2	19V	2.63A	50W	+/-5%	+/-3%	350mV	VI/CoC Tier 2**
PEAD50-14-B2	24V	2.08A	50W	+/-5%	+/-3%	350mV	VI/CoC Tier 2**
PEAD50-17-B2	36V	1.38A	50W	+/-5%	+/-3%	500mV	VI/CoC Tier 2**
PEAD50-18-B2	48V	1.04A	50W	+/-5%	+/-3%	720mV	VI/CoC Tier 2**
PEAD50-19-1-B2	56V	892mA	50W	+/-5%	+/-3%	840mV	VI/CoC Tier 2**

*C14 standard input receptacle
For C8 input receptacle, model numbers are PEAD50SF. For example, PEAD50SF-12-B2 For C6 input receptacle, model numbers are PEAD50S. For example, PEAD50S-12-B2 For C18 input receptacle, model numbers are PEAD50F. For example, PEAD50F-12-B2

Specifications	
Input	
Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	1.5A max at 115 VAC 0.75A max at 230 VAC
Inrush Current	<100A peak at 240VAC, cold start, 25ºC
Output	
Total Output Power	See Table
Output Voltage	See Table
Hold Up Time	≥8.3mS
Average Active efficiency	Meets DOE level VI requirements COC Tier 2
No Load Power Consumption	<210mW
Turn on Delay	<3 seconds
Protection Features	
Overvoltage Protection	150% Max. of nominal. Cycle AC power to reset after fault is re-moved
Overcurrent Protection	110%-169% of maximum output current. Auto recovery
Short Circuit	Hiccup mode. Auto recovery
Ingress	IP22 Compliant
Environmental	
Operating Temperature	0ºC to 60ºC (Derate output power linearly from 100% at 40°C to 50% at 60°C)
Storage Temperature	--20ºC to +85ºC
Operating Humidity	10% - 90% non-condensing
Altitude	<5000m operational and storage
General Specifications	
Dimensions	4.45”(113mm)L x 1.93”(49mm)W x 1.37”(35mm)H
Weight	1lb
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25ºC ambient
AC Input Receptacle	IEC60320 C14, C6, C8, C18
DC output Plug	2.5x5.5mm barrel connector

Specifications Continued	
Safety	
Approved To USA, CANADA	UL60950-1 cUL62368-1 UL/cUL62368-1(Pending)
Approved to Europe	TUV EN60950-1/A12: 2011 EN62368-1
Approved to Japan (PSE)	J60950-1(H22) J55022(H22) CB Report
*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 EN55024: 2010
Harmonic Currents Voltage Flicker Electrostatic Discharge Radiated Immunity EFT Surge Immunity Conducted Immunity Power Frequency Magnetic Field Immunity Dips/Interruptions	IEC 61000-3-2: 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.

TT Electronics | Power Partners, Inc
43 Broad Street Suite B206, Hudson, MA 01749, USA. t: +1 (978) 567-9600