

PEAD120B Power Supply Series (120W)



Features:

- Class I and Class II versions
- Efficiency Level VI
- Active Power Factor Correction
- CoC Tier 2
- LED on Indicator
- Overload Protection
- Short Circuit Protection
- No Load Operation



*Safety approvals may be model dependent. Consult TT Electronics for specifics or for additional safety approvals required.

Description:

The PEAD120B series of AC/DC switching power supplies are for 120-130 watts of continuous output power. They are available as Class I or Class II devices with the inlet of the IEC320/C14, C18, C6, or C8 to mate with an interchangeable cord for world-wide use. All models meet FCC, EN55032, and CISPR32 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)
PEAD120B-12	12VDC	10.00A	120W	+/-5%	+/-1%	240mV
PEAD120B-13	15VDC	8.00A	120W	+/-5%	+/-1%	240mV
PEAD120B-13-2	19VDC	6.31A	120W	+/-5%	+/-1%	360mV
PEAD120B-14	24VDC	5.00A	120W	+/-5%	+/-1%	360mV
PEAD120B-18	48VDC	2.71A	130W	+/-5%	+/-1%	840mV
PEAD120B-19-1	56VDC	2.32A	130W	+/-5%	+/-1%	840mV

C14 Standard Receptacle

For C6 Receptacle, model number is PEAD120BS, for example PEAD120BS-12

For C18 Receptacle, model number is PEAD120BF, for example PEAD120BF-12

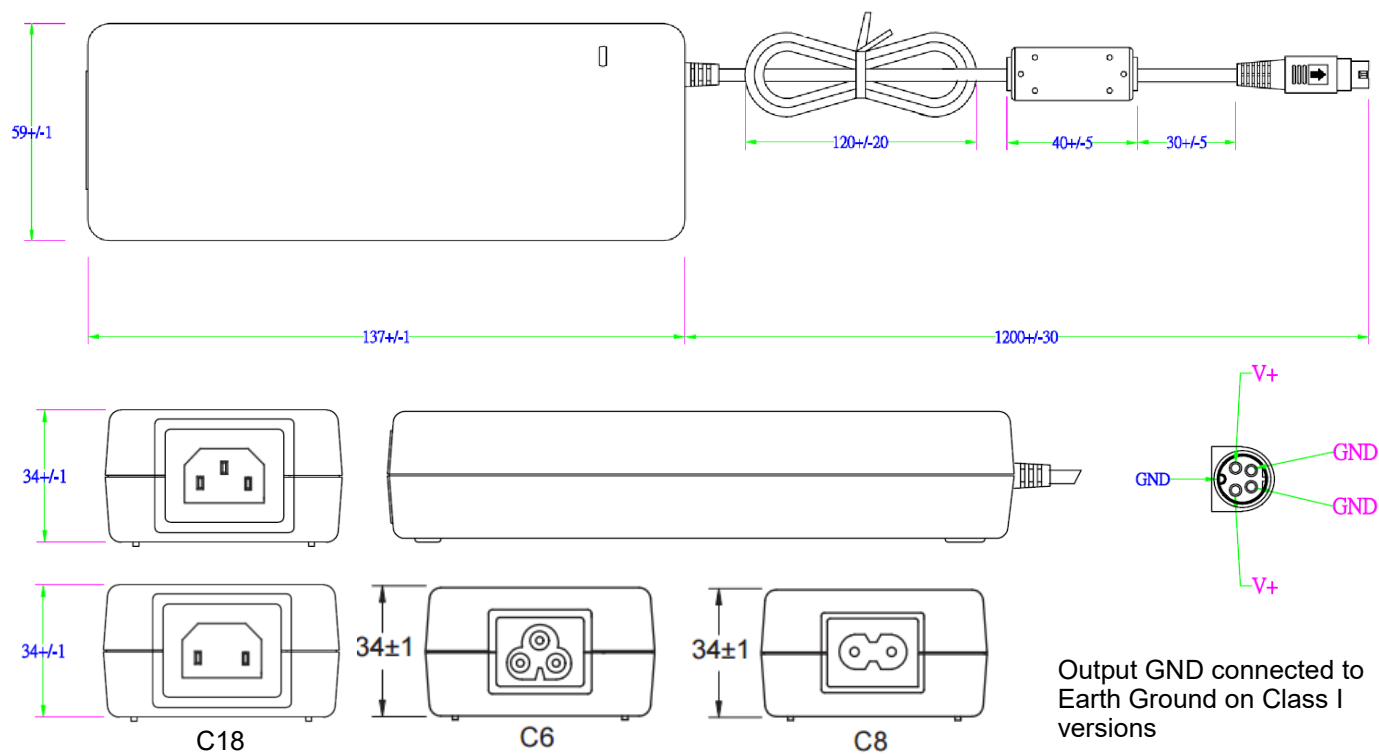
For C8 Receptacle, model number is PEAD120BSF, for example PEAD120BSF-12

For 4kV Surge Protection option, model number is PEAD120BXX-YY, for example PEAD120B-12S

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
Power Factor	>0.9
Output	
Total Output Power	See Table
Output Voltage	See Table
Hold Up Time	≥8.3mS
Average Active efficiency	>88% with 115VAC/60Hz & 230Vac/50Hz input voltage (CEC level VI compliant) 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 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	5.4"(137mm)L x 2.3"(59mm)W x 1.3"(34mm)H
Weight	1lb
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient
AC Input Receptacle	IEC60320 C14, C18, C6, C8
DC output Plug	Kycon KPP-4P (equivalent), others available upon request

Specifications Continued	
Safety	
Approvals*	UL 62368-1 cUL 62368-1 TUV EN62368-1 IEC 62368-1 CB Report
Individual Markings*	UL, CUL, TUV, CB, CE, FCC, BSMI, CU, PSE, RCM, CCC, UKCA, BIS, EK, Argentina
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EMC	
Emissions	FCC Class B Radiated & Conducted CISPR32 Class B Radiated & Conducted EN55032 Class B Radiated & Conducted
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.

Diagrams



Thermal Derating Curve

