

PEAD310 Series 310W Power Supply



- Class I and Class II Versions
- Efficiency Level VI
- <500mW No Load Power Consumption
- LED on Indicator
- Overload Protection
- Short Circuit Protection
- Over-temperature Protection
- No Load Operation
- 100% Burn-In/Hi-Pot Testing
- RoHS Compliant

Electrical Specifications

Input

Input Voltage Input Frequency Input Current

Inrush Current

90-264VAC 47-63 Hz 5A max at 115VAC

2.5A max at 230VAC <75A peak at 115VAC,

<150A peak at 230VAC, cold start, 25°C

Output

Total Output Output Voltage Hold Up Time Average Active Efficiency

No Load Power Consumption Turn on Delay

250-310W (see table for details)

See table

>10mS at full load and 115VAC nominal line >87.5% with 115VAC/60Hz & 230Vac/50Hz input voltage (DOE level VI compliant)

<500mW <3 seconds

Protection

Overvoltage

Overload

Short Circuit Over Temperature

Ingress

110%-150% of nominal. Cycle AC power to reset after fault is removed

105%-150% of maximum output current. Auto recovery

Hiccup mode. Auto recovery

Output latched off during fault. Cycle AC

power to reset IP22 Compliant

Environmental & Operating

Operating Temperature

Storage Temperature

Humidity Altitude MTBF:

0°C to 60°C, derate linearly from 100% at

40°C to 50% at 60°C -20°C to +85°C

10% - 90% non-condensing <5000m operational and storage

>100,000 hours per MIL-HDBK-217F at full

load and 25°C, ambient

Compliance

Safety Approvals

EMC:

USA UL60950-1 Canada cUI 60950-1

UL/cUL62368-1 (Pending) TUV EN60950-1/A12: 2011 Europe

CB Report

EN62368-1 (In Process)

FCC Class B Radiated & Conducted CISPR22 Class B Radiated & Conducted EN55022 Class B Radiated & Conducted

EN55024: 2010

Harmonic Currents IEC 61000-3-2: Class A

IEC 61000-3-3 Voltage Flicker

Electrostatic Discharge IEC 61000-4-2: 8kV Air, 6kV contact

IEC 61000-4-3: 3V/m Radiated Immunity EFT/Burst IEC 61000-4-4: +/-1kV

Surge Immunity IEC 61000-4-5: 2005 1kV diff, 2kV com Conducted Immunity IEC 61000-4-6: 3Vrms

Magnetic Field IEC 61000-4-8: 1A/m

Dips / Interruptions IEC 61000-4-11: 30% reduction for 500ms,

>95% reduction for 10ms.

General

Dimensions 7.8"(198mm)L x 4"(102mm)W x 2"(51mm)H

AC Input Receptacle IEC60320 C14, C18

6-pin Molex mini-fit, #39-01-2060 with female DC output Plug terminals #5556. Mates with Molex plug 39-01-

2066 and male terminal #5558.

Other connectors available upon request.

Weight

Your Partners in Power......



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Models and Ratings Chart

Model	Voltage	Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise (P-P)
PEAD310-12	12VDC	20.83A	250W	+/-5%	+/-2%	240mV
PEAD310-13	15VDC	16.66A	250W	+/-5%	+/-2%	300mV
PEAD310-13-2	19VDC	15.79A	300W	+/-5%	+/-2%	380mV
PEAD310-14	24VDC	12.50A	300W	+/-5%	+/-2%	480mV
PEAD310-17	36VDC	8.61A	310W	+/-5%	+/-2%	720mV
PEAD310-18	48VDC	6.45A	310W	+/-5%	+/-2%	840mV
PEAD310-19-1	56VDC	5.53A	310W	+/-5%	+/-2%	840mV

C14 Standard Receptacle.

For C18 Class II Receptacle, model number is PEAD310F, for example PEAD310F-12

