

PEAMD36 Power Supply Series (20-36W)

Features:

- IEC 60601-1-2 4th Edition EMC Compliant
- Class I and Class II Versions
- BF Rated Class II Version
- Meets Efficiency Level VI Requirements
- LED on Indicator
- Overload Protection
- Short Circuit Protection
- No Load Operation
- 100% Burn-In/Hi-Pot Testing



See Page 3 for Details of Safety Marks

Description:

The PEAMD36 Series of AC/DC switching power supplies are for 20-36 watts of continuous output power. They are available as Class I or Class II devices with the inlet of the IEC60320/C14, C6, C8, and 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 worldwide safety requirements.

Model Number	Voltage	Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise (P-P)
PEAMD36-10-B1	5VDC	4A	20W	±5%	±1%	100mV
PEAMD36-11-B1	9VDC	3A	27W	±5%	±1%	250mV
PEAMD36-12-B1	12VDC	3A	36W	±5%	±1%	250mV
PEAMD36-13-B1	15VDC	2A	30W	±5%	±1%	250mV
PEAMD36-13-1-B1	18VDC	1.66A	30W	±5%	±1%	350mV
PEAMD36-13-2-B1	19VDC	1.57A	30W	±5%	±1%	350mV
PEAMD36-14-B1	24VDC	1.5A	36W	±5%	±1%	350mV
PEAMD36-17-B1	36VDC	0.83A	30W	±5%	±1%	480mV
PEAMD36-18-B1	48VDC	0.62A	30W	±5%	±1%	480mV

NOTES:

*C14 standard input receptacle

For C8 input receptacle, model numbers are PEAMD36SF. For example, PEAMD36SF-12

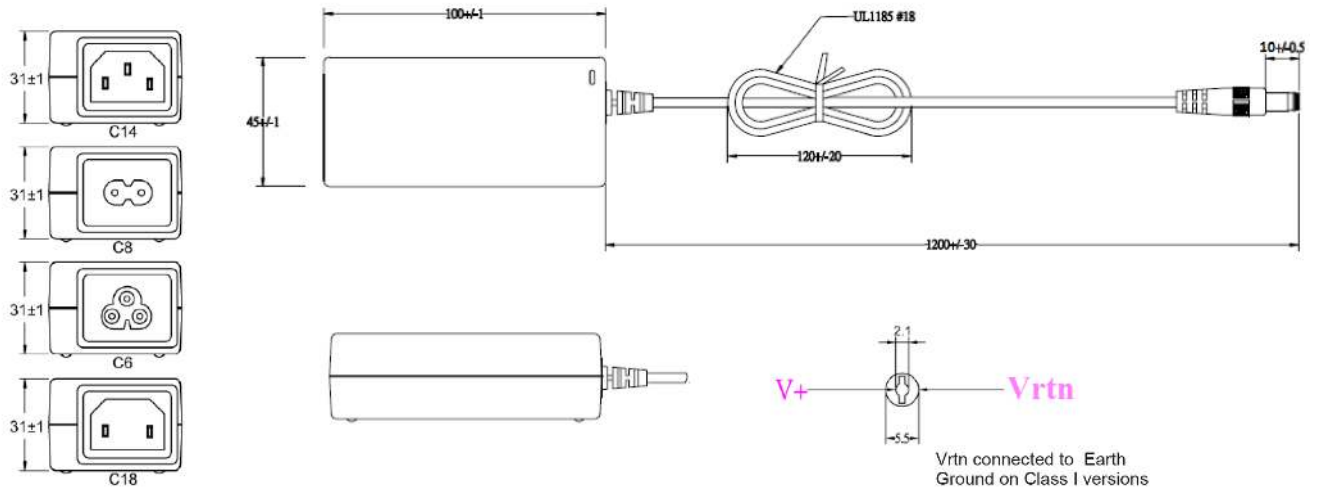
For C6 input receptacle, model numbers are PEAM36S. For example, PEAMD36S-12

For C18 input receptacle, model numbers are PEAMD36F. For example, PEAMD36F-12

Specifications	
Input	
Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	1.0A max at 115VAC 0.5A max at 230VAC
Inrush Current	<60A at 240VAC, cold start, 25°C
Output	
Total Output Power	20-36W see table for details
Output Voltage	See table
Hold Up Time	>8.3mS at full load and 115/230VAC line
Earth Leakage Current (Class I)	<100uA max. at 264VAC, 60Hz
Touch Current	<100uA max. at 264VAC. 60Hz
Average Active Efficiency	>88% with 115VAC/60Hz & 230Vac/50Hz input voltage (meets DOE level VI requirements)
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
Overload Protection	110-150% of maximum output current. Auto Recovery
Short Circuit Protection	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
Humidity	10% - 90% non-condensing
Altitude	<5000m operational
General Specifications	
Dimensions	3.94"(100mm) x 1.77"(45mm) x 1.22"(31mm)
Weight	0.44lb
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient
AC Input Receptacle	IEC320 C14, C6, C8, C18
DC output Plug	2.1x5.5mm barrel connector

Specifications Continued	
Safety	
Approved to USA/Canada	ANSI/AAMI ES60601-1 cUL ES60601-1
Approved to Europe (Class II Models with C8/C18 AC Inlet Only)	TUV EN60601-1 3rd edition (Class II models) CB Report
Isolation	4000VAC input to output, 2 x MOPP 1500 VAC input to ground, 1 x MOPP
*Consult with TT Electronics for information on additional country safety approvals	
EMC	
Emissions	FCC Class B Radiated & Conducted CISPR11 Class B Radiated & Conducted EN55011 Class B Radiated & Conducted
Harmonic Currents	IEC 61000-3-2
Voltage Flicker	IEC 61000-3-3
Electrostatic Discharge	IEC 61000-4-2: ±15kV Air, ±8kV contact
Radiated Immunity	IEC 61000-4-3: 10V/m
EFT/Burst	IEC 61000-4-4: ±2kV
Surge Immunity	IEC 61000-4-5: 1kV diff, 2kV com
Conducted Immunity	IEC 61000-4-6: 10Vrms
Magnetic Field	IEC 61000-4-8: 30A/m
Dips/Interruptions	IEC 61000-4-11: Voltage dip immunity, 30% reduction for 500ms, 100% reduction for 10ms

Diagrams



Thermal Derating Curve

