

PEAMD180 Series Power Supplies (180W)

Features:

- IEC 60601-1-2-4th Edition EMC Compliant
- Efficiency Level VI
- <210mW No Load Power Consumption
- Short Circuit, Overload and Overvoltage Protection
- IEC320-C6, C8, C14 or C18 Inlet
- No Load Operation
- 100% Burn-In /Hi-Pot Testing



*Note: Country specific approvals may not apply to all models shown. Please consult factory.

Description:

The PEAMD180 series of AC/DC desktop power supplies provides up to 180W of continuous output power. Available in both Class I and Class II construction types, the PEAMD180 series can be ordered with a C14, C6, C8 or C18 AC inlet. The PEAMD180 series is 60601-1-2 4th edition EMC compliant, DoE Level VI compliant and offers a suite of built in protection features.

Model	Voltage	Current	Total Power	Load Regulation	Line Regulation	Ripple & Noise ⁶
PEAMD180-12	12VDC	13.33A	160W	±5%	±1%	240mV
PEAMD180-13	15VDC	10.66A	160W	±5%	±1%	240mV
PEAMD180-13-2	19VDC	9.47A	180W	±5%	±1%	360mV
PEAMD180-14	24VDC	7.50A	180W	±5%	±1%	360mV
PEAMD180-17	36VDC	5.00A	180W	±5%	±1%	630mV
PEAMD180-18	48VDC	3.75A	180W	±5%	±1%	840mV

C14 Standard Receptacle

For C8 input receptacle, model numbers are PEAMD180SF, For example PEAMD180SF-12.

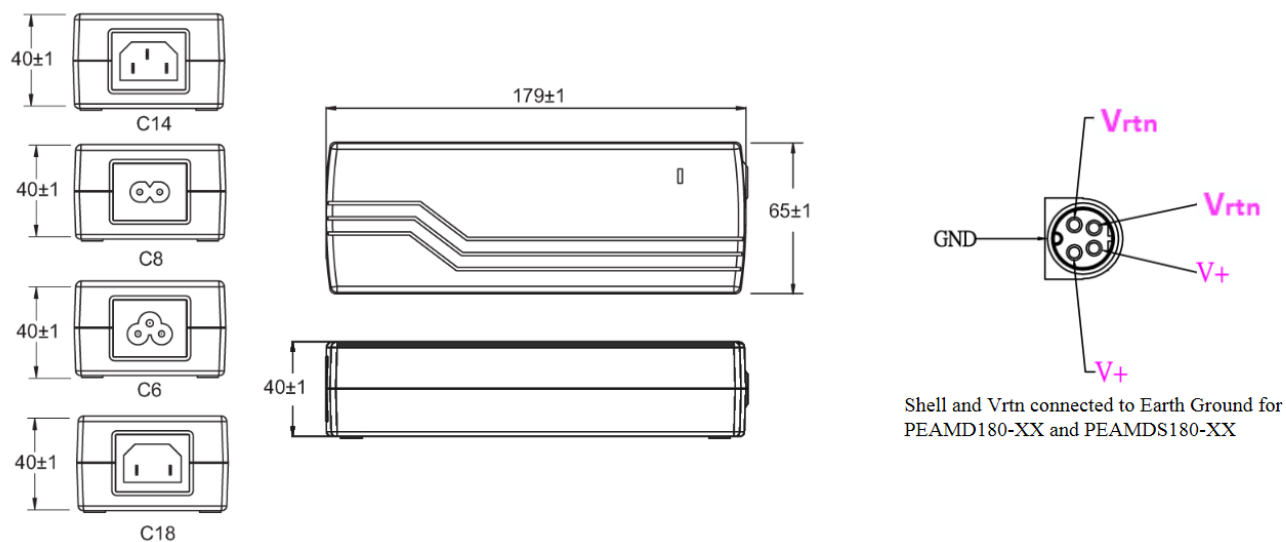
For C6 input receptacle, model numbers are PEAMD180S. For C8 input receptacle, model numbers are PEAMD180F.

Specifications	
Input	
Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	3.5A max at 115VAC 2.5A max at 230VAC
Inrush Current	<60A peak at 115VAC, <120A peak at 230VAC, cold start, 25°C
Leakage Current	<100uA max. @ 240VAC
Power Factor	>0.9
Output	
Total Output Power	Up to 180W
Hold Up Time	10mS typical/full load, 100VAC
Turn On Time	<3 seconds
Efficiency	>88% average
Minimum Load	No minimum load
Protection Features	
Overvoltage	150% max. of rated voltage. Latching mode. Cycle AC for recovery.
Overload	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
Humidity	10% - 90% non-condensing
Operating Altitude	5,000 Meters
General Specifications	
Dimensions	7.0"L x 2.56"W x 1.57"H
Weight	1.5 pounds
MTBF	100,000 hours at full load and 25°C per MIL-HDBK-217F
AC Input Receptacle	IEC320-C6, C8, C14, or C18
DC Output Plug	Kycon KPP-4P or equivalent

Specifications Continued	
Safety	
USA/Canada	ANSI/AAMI ES60601-1 cUL/UL 60601-1
Europe	TUV EN60601-1 3rd edition CB Report
*Consult with TT Electronics for information on additional country safety approvals	
EMC	
EMC (IEC60601-1-2:2014)	FCC Class B Radiated & Conducted CISPR11 Class B Radiated & Conducted EN55011 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: $\pm 15\text{kV}$ Air, $\pm 8\text{kV}$ contact IEC 61000-4-3: 10V/m IEC 61000-4-4: $\pm 2\text{kV}$ IEC 61000-4-5: 1kV diff, 2kV com IEC 61000-4-6: 10Vrms IEC 61000-4-8: 30A/m IEC 61000-4-11: Voltage dip immunity, 30% reduction for 500ms, 100% reduction for 10ms

Diagrams

Mechanical Outline



Thermal Derating Curve

