PEAW12NA Power Supply Series (12W)

Features:

- Class II Configuration
- Efficiency Level VI
- Optional USB (5V only) or Cable Output
- Short Circuit Protection
- Overload Protection
- No Load Operation

Description:

The PEAMW12NA series of AC/DC wall mount switching power supplies provide 12 watts of continuous power. They are Class II devices with fixed AC blades that are optimized for standard North American outlets and can be provided with a USB output connector. All models meet FCC and EN55011 class B emission limits, and comply with UL, IEC, DOE level VI, CE, and more.

Model Number	Voltage	Current	Total Power	Output Regulation	Ripple & Noise (P-P)	Efficiency Level
PEAW12NA-10-B1	5VDC	2.4A	12W	±5%	100mV	VI
PEAW12NA-10-USB	5VDC	2.4A	12W	±5%	100mV	VI
PEAW12NA-10-1-B1	6VDC	2A	12W	±5%	100mV	VI
PEAW12NA-11-B1	9VDC	1.33A	12W	±5%	180mV	VI
PEAW12NA-12-B1	12VDC	1A	12W	±5%	250mV	VI
PEAW12NA-13-B1	15VDC	0.8A	12W	±5%	250mV	VI
PEAW12NA-13-1-B1	18VDC	0.66A	12W	±5%	350mV	VI
PEAW12NA-13-2-B1	19VDC	0.63A	12W	±5%	350mV	VI
PEAW12NA-14-B1	24VDC	0.5A	12W	±5%	350mV	VI

Notes:

- Ripple & Noise is measured using a 20MHz bandwidth oscilloscope with a 0.1uf ceramic capacitor and 4.7uf electrolytic capacitor in parallel across the output at full load and nominal line voltage.
- PEAW12NA-10-USB has a standard USB A output port. All other models have at 4ft cable terminated with a 5.5 x 2.1mm barrel connect-or. Consult PPI for custom connectors.

Specifications	
Input	
Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	<0.6A, 115VAC—230VAC
Safety Isolation	3.0kVAC Input to Output
Inrush Current	<30A peak @ 115VAC, cold start at 25°C <60A peak @ 230VAC, cold start at 25°C
No Load Power	<100mW
Output	
Total Output	12W
Output Voltage	See table
Hold Up Time	>8.3m sec @ full load and 115VAC/60Hz input
Turn on Time	<3 seconds
Efficiency	Meets DOE level VI Requirements
Minimum Load	No Minimum Load
Line Regulation	<± 1% of rated output voltage at full load
Protection Features	
Overvoltage Protection	150% Max. of rated voltage. Latching mode. Cycle AC for recovery
Overcurrent Protection	150% Max. of rated current. Auto-restart when fault removed.
Short Circuit Protection	Hiccup Mode. Auto Recovery
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
Storage Humidity	5% - 90% non-condensing
Operating Altitude	<5000m
General Specifications	
Dimensions	2.12”(54mm) x 1.61”(41mm) x 0.94”(24mm)
Weight	0.3lbs
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient
AC Input Receptacle	Fixed North American Plug
DC output Plug	Barrel Type: 5.5mm x 2.1mm x 9.5mm Center positive (others upon request) Optional USB output for 5V models

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Specifications Continued	
Safety	
Approved to USA/Canada	UL60950-1 cUL60950-1 UL/cUL62368-1 (Pending)
Approved to Europe	TUV EN60950-1/A12: 2011 CB Report EN62368-1 (In Process)
*Consult with TT Electronics for information on additional country safety approvals	
EMC	
EMC	FCC Class B Radiated & Conducted CISPR22 Class B Radiated & Conducted EN55022 Class B Radiated & Conducted
Harmonic Currents Voltage Flicker Electrostatic Discharge Radiated Immunity EFT/Burst Surge Immunity Conducted Immunity Magnetic Field 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.

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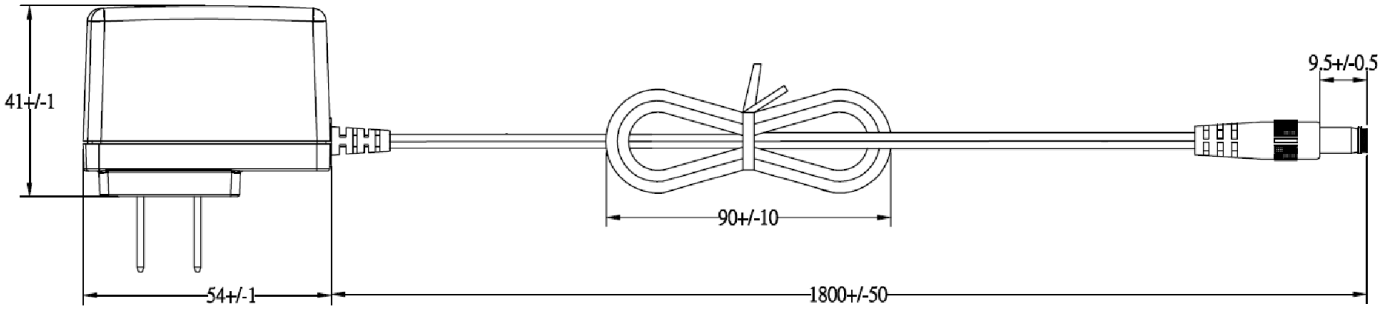
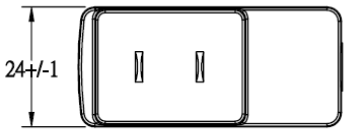
Diagrams





Output Connector