

PEAMW12NA 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 North American AC plugs and can be provided with a USB output connector. All models meet FCC and EN55011 class B emission limits, and comply with UL, IEC, CE, and more.

Model Number	Voltage	Current	Total Power	Output Regulation	Ripple & Noise (P-P)	Efficiency Level
PEAMW12NA-10-B1	5VDC	2.4A	12W	±5%	100mV	VI
PEAMW12NA-10-USB	5VDC	2.4A	12W	±5%	100mV	VI
PEAMW12NA-11-B1	9VDC	1.33A	12W	±5%	180mV	VI
PEAMW12NA-12-B1	12VDC	1A	12W	±5%	250mV	VI
PEAMW12NA-13-B1	15VDC	0.8A	12W	±5%	250mV	VI
PEAMW12NA-13-1-B1	18VDC	0.67A	12W	±5%	250mV	VI
PEAMW12NA-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.
- PEAMW12NA-10-USB has a standard USB A output port. All other models have a 4ft cable terminated with a 5.5 x 2.1mm barrel connector. Consult PPI for custom connectors.

Specifications	
Input	
Input Voltage	90-264 VAC
Input Frequency	47-63Hz
Input Current	<0.6A, 115VAC– 230 VAC
Safety Isolation	4.0kV AC Input to Output
Inrush Current	<30A peak @ 115 VAC, cold start at 25°C <60A peak @ 230 VAC, 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	DOE level VI Compliant
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
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
Storage Humidity	5% - 90% non-condensing
Operating Altitude	<5000m
General Specifications	
Dimensions	2.12"(54mm)L x 1.61"(41mm)W x 0.94"(24mm)H
Weight	0.3 pounds
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

Specifications Continued

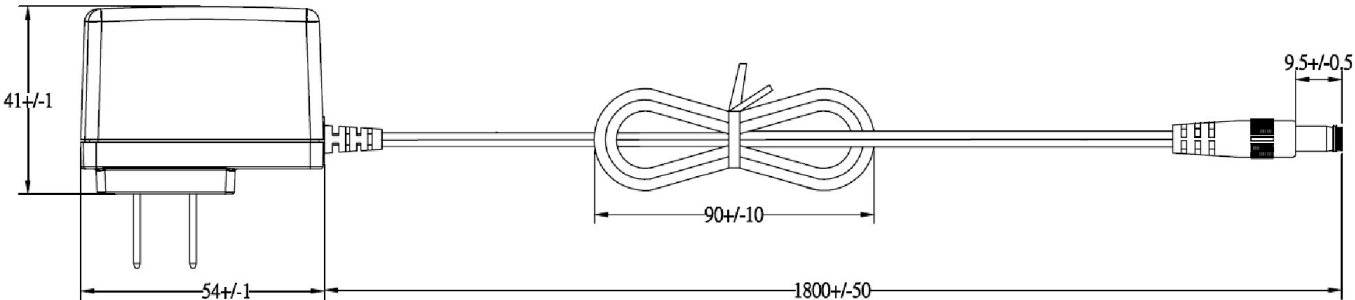
Safety

Approved to USA/Canada	ANSI/AAMI ES60601-1 cUL ES60601-1
Approved to Europe	TUV EN60601-1 CB Report CE Mark
*Consult with TT Electronics for information on additional country safety approvals	

EMC

EMC	FCC 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: 8kV Air, 6kV contact
Radiated Immunity	IEC 61000-4-3: 3V/m
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.

Diagrams



Output Connector



Thermal Derating Curve

