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.
- 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 connector. Consult PPI for custom connectors.

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	Specifications			
Input				
Input Voltage	90-264 VAC			
Input Frequency	47-63Hz			
Input Current	<0.6A, 115VAC- 230 VAC			
Safety Isolation	3.0k VAC 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			

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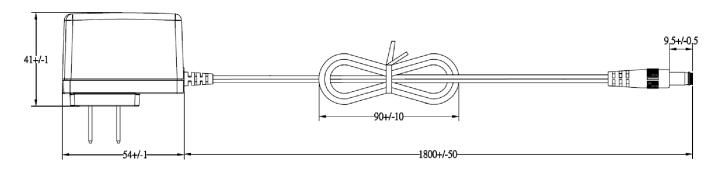


Specifications Continued Safety					
Approved to Europe	TUV EN60601-1 CB Report CE Mark				
*Consult with TT Electronics for information on addition	nal country safety approvals				
	EMC				
EMC	FCC Class B Radiated & Conducted EN55011 Class B Radiated & Conducted				
Harmonic Currents Voltage Flicker 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

