

# PEAMW12I Power Supply Series (12W)

## Features:

- IEC 60601-1-2 4th Edition EMC Compliant
- Class II Double Insulated (2 MOPP Rated)
- Meets Efficiency Level VI Requirements
- Interchangeable Plugs for Worldwide Use
- Optional USB (5V only) or Cable Output
- Short Circuit Protection
- Overload Protection
- No Load Operation



## Description:

The PEAMW12I series of AC/DC wall mount switching power supplies provide 12 watts of continuous power. They are Class II devices with interchangeable AC plugs that provide ease of use in several regions throughout the world 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
PEAMW12I-10-B1	5VDC	2.4A	12W	±5%	100mV	VI
PEAMW12I-10-USB	5VDC	2.4A	12W	±5%	100mV	VI
PEAMW12I-11-B1	9VDC	4A	12W	±5%	180mV	VI
PEAMW12I-12-B1	12VDC	1A	12W	±5%	250mV	VI
PEAMW12I-13-B1	15VDC	0.8A	12W	±5%	250mV	VI
PEAMW12I-13-1-B1	18VDC	0.66A	12W	±5%	350mV	VI
PEAMW12I-14-B1	24VDC	0.5A	12W	±5%	350mV	VI

## NOTES:

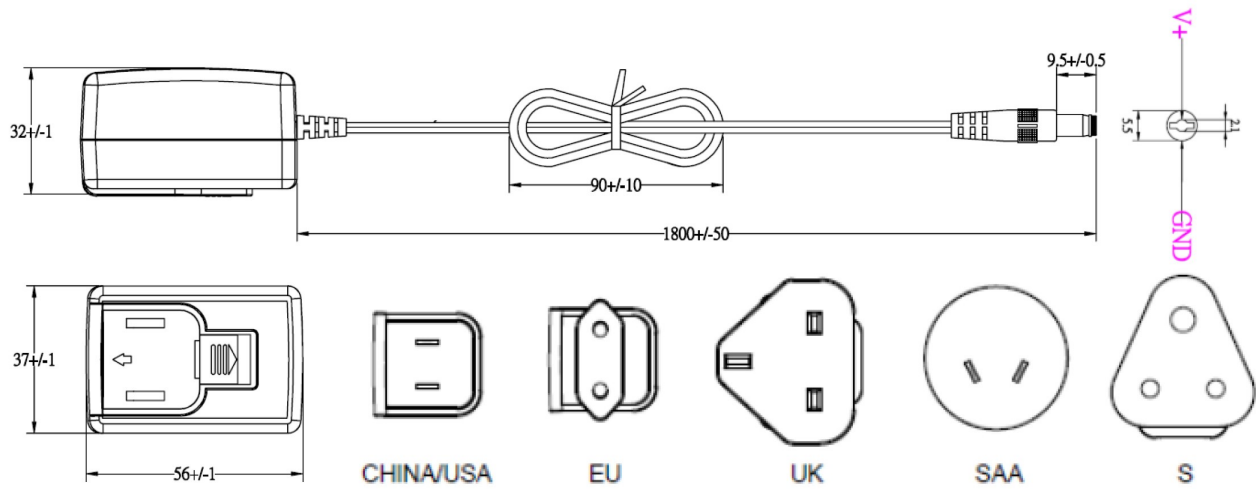
- Ripple & Noise is measured using a 20MHz bandwidth oscilloscope with a 0.1uf ceramic capacitor and 4.7uf electrolytic capacitor in parallel across the output at full load and nominal line voltage.
- PEAMW12I-10-USB has a standard USB A output port. All other models have at 4ft cable terminated with a 5.5 x 2.1mm barrel connector. Consult PPI for custom connectors.
- Shipped with USA AC Blades; others ordered separately.

<b>Specifications</b>	
<b>Input</b>	
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
<b>Output</b>	
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
<b>Protection Features</b>	
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
<b>Environmental</b>	
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
<b>General Specifications</b>	
Dimensions	2.20"(56.0mm)L x 1.46"(37.0mm)W x 1.26"(32.0mm)H
Weight	0.3 pounds
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient
AC Input Receptacle	Interchangeable Plugs
DC output Plug	Barrel Type: 5.5mm x 2.1mm x 9.5mm Center positive (others upon request) Optional USB output for 5V models

<b>Specifications Continued</b>	
<b>Safety</b>	
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	
<b>EMC</b>	
EMC	FCC Class B Radiated & Conducted EN55011: Class B
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.

## Mechanical Outline

## Diagrams



\*Shipped with USA AC Blades; others ordered separately.

### Thermal Derating Curve

