

# PEAW12I Power Supply Series (12W)

## Features:

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



## Description:

The PEAW12I 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
PEAW12I-10-B1	5VDC	2.4A	12W	±5%	100mV	VI
PEAW12I-10-USB	5VDC	2.4A	12W	±5%	100mV	VI
PEAW12I-10-1-B1	6VDC	2A	12W	±5%	100mV	VI
PEAW12I-11-B1	9VDC	1.33A	12W	±5%	180mV	VI
PEAW12I-12-B1	12VDC	1A	12W	±5%	250mV	VI
PEAW12I-13-B1	15VDC	0.8A	12W	±5%	250mV	VI
PEAW12I-13-1-B1	18VDC	0.66A	12W	±5%	350mV	VI
PEAW12I-13-2-B1	19VDC	0.63A	12W	±5%	350mV	VI
PEAW12I-14-B1	24VDC	0.5A	12W	±5%	350mV	VI

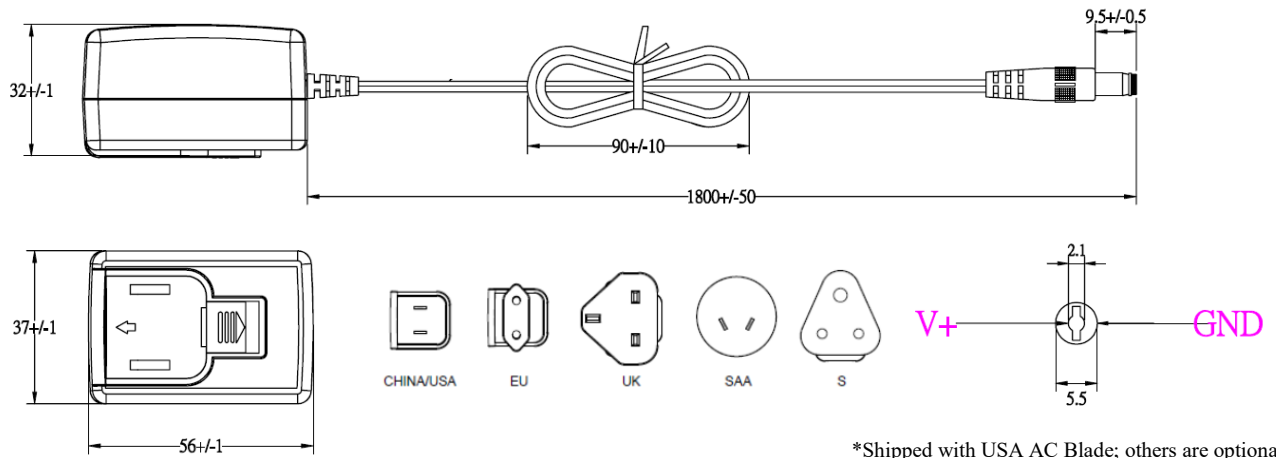
## Notes:

- Ripple & Noise is measured using a 20MHz bandwidth oscilloscope with a 0.1uf ceramic capacitor and 47uf electrolytic capacitor in parallel across the output at full load and nominal line voltage.
- PEAW12I-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.
- Shipped with USA AC Blade; others are optional.

<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	Meets DOE level VI Requirements
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"(56mm) x 1.46"(37mm) x 1.26"(32mm)
Weight	0.3lbs
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>	
Approvals	UL60950-1 cUL60950-1 UL/cUL62368-1 (Pending) TUV EN60950-1/A12: 2011 CB Report EN62368-1 (In Process)
*Consult with TT Electronics for information on additional country safety approvals	
<b>EMC</b>	
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, ±4kV 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.

## Diagrams



\*Shipped with USA AC Blade; others are optional.

## Thermal Derating Curve

