



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



### Electrical Specifications

#### Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
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	>8.3 msec @ 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

Overvoltage	150% Max. of rated voltage. Latching mode. Cycle AC for recovery
Short Circuit	Hiccup mode. Auto recovery.
Overcurrent	150% Max. of rated current. Auto-restart when fault removed.
Ingress	IP22 Compliant

#### Environmental & Operating

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 Altitude	<5000m
Operating Humidity	10% - 90% non-condensing
Storage Humidity	5% - 90% non-condensing
MTBF:	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient

#### Compliance

##### Safety Approvals

USA	ANSI/AAMI ES60601-1
Canada	cUL ES60601-1
Europe	TUV EN60601-1 CB Report CE Mark

##### EMC:

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.

#### General

Dimensions	2.12"(54mm)L x 1.61"(41mm)W x 0.94"(24mm)H
AC Input	Interchangeable Plugs
Output Plug	Barrel Type: 5.5mm x 2.1mm x 9.5mm Center positive (others upon request) Optional USB output for 5V models
Weight	0.3 pounds

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Specifications subject to change.  
PEAMW12NA: April 3, 2018



### Models and Ratings Chart

Model No.	Output voltage	Output Current	Total Power	Output Regulation	Ripple & Noise (Vp-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	4.0A	12W	± 5%	180mV	VI
PEAMW12NA-12-B1	12VDC	1.0A	12W	± 5%	250mV	VI
PEAMW12NA-13-B1	15VDC	0.8A	12W	± 5%	250mV	VI
PEAMW12NA-13-1-B1	18VDC	0.66A	12W	± 5%	350mV	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.

### Mechanical Outline

