



Power Partners

PEAW6I Series 6W Power Supply



- 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



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	6W
Output Voltage	See table
Hold Up Time	>8.3 msec @ full load and 115VAC/60Hz input
Turn On Time	<3 seconds
Efficiency	DOE Level VI Compliant
Minimum Load	No minimum load
Switching Frequency	50 kHz typical
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.

Environmental & Operating

Operating Temperature	0°C to +40°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	UL60950-1
Canada	cUL60950-1
Europe	TUV EN60950-1/A12: 2011 CB Report
EMC:	FCC Class B Radiated & Conducted CISPR22 Class B Radiated & Conducted EN55022 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.

General

Dimensions	2.20"(56.0mm)L x 1.46"(37.0mm)W x 1.26"(32.0mm)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

Your Partners in Power.....

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Specifications subject to change.
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Models and Ratings Chart

Model No.	Output voltage	Current	Total Power	Output Regulation	Ripple & Noise (Vp-p)	Efficiency Level
PEAW6I-10-B1	5VDC	1.20A	6W	± 5%	100mV	VI
PEAW6I-10-USB	5VDC	1.20A	6W	± 5%	100mV	VI
PEAW6I-11-B1	9VDC	0.66A	6W	± 5%	180mV	VI
PEAW6I-12-B1	12VDC	0.50A	6W	± 5%	180mV	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.
- PEAW6I-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 connect-or. Consult PPI for custom connectors.

Mechanical Outline

