

# PEAMW20I Power Supply Series (20W)

**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 PEAMW20I series of AC/DC wall mount switching power supplies provide 20 watts of continuous power. They are Class II devices with interchangeable AC plugs that provide ease of use in several regions throughout the world. All models meet FCC and EN55011 class B emission limits, and comply with UL, IEC, CE, and more.

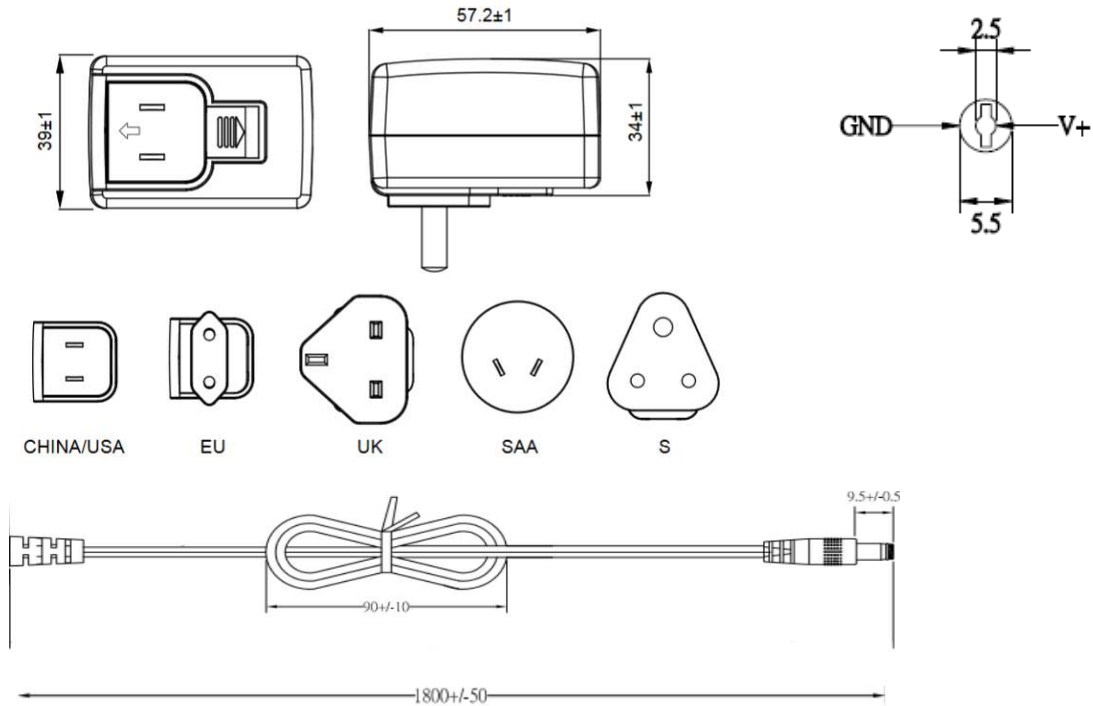
Model Number	Voltage	Current	Total Power	Output Regulation	Minimum Avg. Efficiency	Ripple & Noise (P-P)
PEAMW20I-10-B1	5VDC	3A	15W	±5%	81.39%	100mV
PEAMW20I-11-B1	9VDC	2A	18W	±5%	85%	180mV
PEAMW20I-12-B1	12VDC	1.66A	20W	±5%	85.47%	180mV
PEAMW20I-13-B1	15VDC	1.33A	20W	±5%	85.47%	200mV
PEAMW20I-13-1-B1	18VDC	1.11A	20W	±5%	85.47%	200mV
PEAMW20I-14-B1	24VDC	0.83A	20W	±5%	85.47%	250mV
PEAMW20I-17-B1	36VDC	0.55A	20W	±5%	85.47%	360mV
PEAMW20I-18-B1	48VDC	0.41A	20W	±5%	85.47%	360mV

- Shipped with USA AC Blades; others ordered separately.

<b>Specifications</b>	
<b>Input</b>	
Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	<800mA @115Vac input <400mA @230Vac input
Inrush Current	<80A peak @ 115VAC, cold start at 25°C <40A peak @ 230VAC, cold start at 25°C
No Load Power	<100mW
<b>Output</b>	
Total Output	15-20W, see table for details
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. Auto Recovery
Overcurrent Protection	180% Max. of rated current. Auto-restart when fault removed.
Short Circuit Protection	Hiccup Mode. Auto Recovery
<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	2.22"(57.2mm) x 1.54"(39mm) x 1.33"(34mm)
Weight	0.24 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)

<b>Specifications Continued</b>	
<b>Safety</b>	
Approved to USA/Canada	ANSI/AAMI ES60601-1 cUL ES60601-1
Approved to Europe	TUV EN60601-1
Approved to China	CCC Mark CB Report
*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: 15kV Air, 8kV contact
Radiated Immunity	IEC 61000-4-3: 10V/m
EFT/Burst	IEC 61000-4-4: ±2kV
Surge Immunity	IEC 61000-4-5: 2005 1kV diff, 2kV com
Conducted Immunity	IEC 61000-4-6: 10Vrms
Magnetic Field	IEC 61000-4-8: 30A/m
Dips/Interruptions	IEC 61000-4-11: 30% reduction for 500ms, >95% reduction for 10ms.

## Diagrams



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## Thermal Derating Curve

