PEAW20NA Power Supply Series (20W)



Features:

- Class II Configuration
- Efficiency Level VI
- **Short Circuit Protection**
- **Overload Protection**
- **Overvoltage Protection**
- No Load Operation















Description:

The PEAMW20NA series of AC/DC wall mount switching power supplies provide 15-20 watts of continuous power. They are Class II devices with fixed AC blades that are optimized for standard North American outlets. All models meet FCC and EN55011 class B emission limits, and comply with UL, IEC, DOE level VI, CE, and more.

Model Number	Voltage	Current	Total Power	Output Regulation	Ripple & Noise (P-P)	Efficiency Level
PEAW20NA-10-B1	5VDC	3A	15W	±5%	100mV	VI
PEAW20NA-10-1-B1	6VDC	2.5A	15W	±5%	100mV	VI
PEAW20NA-11-B1	9VDC	2.22A	20W	±5%	180mV	VI
PEAW20NA-12-B1	12VDC	1.67A	20W	±5%	180mV	VI
PEAW20NA-13-B1	15VDC	1.33A	20W	±5%	200mV	VI
PEAW20NA-13-1-B1	18VDC	1.11A	20W	±5%	200mV	VI
PEAW20NA-13-2-B1	19VDC	1.05A	20W	±5%	200mV	VI
PEAW20NA-14-B1	24VDC	0.83A	20W	±5%	250mV	VI
PEAW20NA-17-B1	36VDC	0.55A	20W	±5%	360mV	VI
PEAW20NA-18-B1	48VDC	0.42A	20W	±5%	360mV	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.

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Specifications					
Input					
Input Voltage	90-264VAC				
Input Frequency	47-63Hz				
Input Current	<0.8A @ 115VAC input with full load <0.4A @ 230VAC input with full load				
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	15W-20W, see table				
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				
	Protection Features				
Overvoltage Protection	180% Max. of rated voltage. Latching mode. Cycle AC for recovery				
Overcurrent Protection	180% Max. of rated current. Auto-restart when fault removed.				
Short Circuit Protection	Hiccup Mode. Auto Recovery				
Ingress	IP22 Compliant				
	Environmental				
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				
	General Specifications				
Dimensions	2.62"(66.5mm) x 1.02"(26mm) x 1.79"(45.5mm)				
Weight	0.27lbs				
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient				
AC Input Receptacle	Fixed North American Plug				
DC output Plug	Barrel Type: 5.5mm x 2.1mm x 9.5mm Center positive (others upon request)				

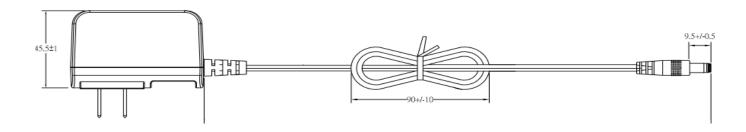
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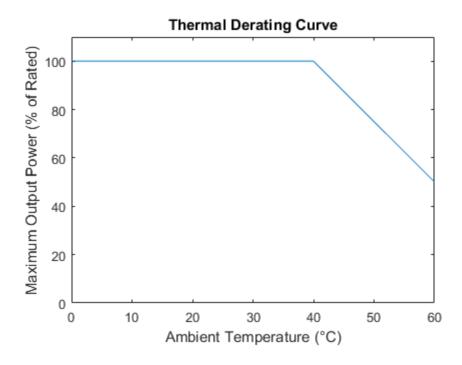
Specifications Continued						
Safety						
Approved to USA/Canada	UL60950 cUL60950 UL/cUL62368-1 (Pending)					
Approved to Europe	TUV EN60950 CB Report EN62368-1 (In Process)					
*Consult with TT Electronics for information on	additional country safety approvals					
	EMC					
EMC	FCC Part 15 Radiated & 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 61000-4-2: 8kV Air, 4kV contact IEC 61000-4-3: 3V/m IEC 61000-4-4: ±1kV IEC 61000-4-5: 2005 ±1kV IEC 61000-4-6: 3Vrms IEC 61000-4-8: 1A/m IEC 61000-4-11: 30% reduction for 500ms, >95% reduction for 10ms.					



Diagrams







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