PSAW6NA Power Supply Series (6W)

Features:

- •Class II Configuration
- •Efficiency Level VI
- •<100mW No Load Power Consumption
- •Short Circuit Protection
- Overload Protection
- No Load Operation



Description:

The PSAW6NA series of AC/DC wall mount switching power supplies provide 2.5-6 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 class B emission limits, and comply with UL, IEC, DOE level VI, and more.

Model Number	Voltage	Current	Total Power	Output Regulation	Ripple & Noise (P-P)	Efficiency Level
PSAW6NA-10-B1	5VDC	500mA	2.5W	±5%	30mV	VI
PSAW6NA-10A-B1	5VDC	1000mA	5W	±5%	40mV	VI
PSAW6NA-10B-B1	5VDC	1200mA	6W	±5%	50mV	VI
PSAW6NA-11-B1	9VDC	670mA	6W	±5%	70mV	VI
PSAW6NA-12-B1	12VDC	500mA	6W	±5%	50mV	VI
PSAW6NA-14-B1	24VDC	250mA	6W	±5%	50mV	VI

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Specifications Input				
Input Frequency	47-63Hz			
Input Current	1.2A @ 115VAC 0.6A @ 230VAC			
Safety Isolation	3000VAC Input to Output			
Inrush Current	<40A peak @ 115VAC, cold start at 25°C <40A peak @ 230VAC, cold start at 25°C			
No Load Power Consumption	<100mW			
	Output			
Total Output	see table for details			
Output Voltage	see table for details			
Hold Up Time	>8.3 msec @ full load and 115VAC/60Hz input			
Turn On Time	<30msec			
Minimum Load	No minimum load requirement			
Line Regulation	<±1% of rated output voltage at full load			
Load Regulation	<±5% of rated output voltage at full load			
Efficiency	Meets DOE level VI requirements			
	Protection Features			
Overcurrent Protection	Auto-restart when fault removed.			
Short Circuit Protection	Hiccup Mode. Auto Recovery			
Overvoltage Protection	Latching mode. Cycle AC for recovery.			
	Environmental			
Operating Temperature	10°C to 40°C (Derate output power linearly from 100% at 40°C to 50% at 60°C)			
Storage Temperature	-20°C to +80°C			
Operational Altitude	<3000m			
Operating Humidity	5% - 90% non-condensing			
	General Specifications			
Dimensions	2.24"(43.6mm) x 1.51"(40.9mm) x 1.05"(22.9mm)			
Weight	0.15lbs			
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient			
AC Input Receptacle	Fixed Non-polarized North American AC Blade (others available)			
DC output Plug	Barrel Type: 5.5mm x 2.5mm x 9.5mm Center positive (others available)			

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Specifications Continued					
Safety					
Approved to USA/Canada UL60950-1 Cul60950-1					
*Consult with TT Electronics for information on add	ditional country safety approvals				
EMC					
EMC	FCC Class B Radiated & Conducted CISPR22 Class B Radiated & Conducted EN55022 Class B Radiated & Conducted				
Harmonic Currents Voltage Flicker Electrostatic Discharge Radiated Immunity	IEC 61000-3-2 IEC 61000-3-3 IEC 61000-4-2: 8kV Air, 4kV contact IEC 61000-4-3: 3V/m				
EFT/Burst Surge Immunity Conducted Immunity	IEC 61000-4-4: ±1kV IEC 61000-4-5: 2005 1kV diff, 2kV com IEC 61000-4-6: 3Vrms				
Magnetic Field Dips/Interruptions	IEC 61000-4-8: 1A/m IEC 61000-4-11: 30% reduction for 500ms, >95% reduction for 10ms				

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