

# PSAW12NA Power Supply Series (12W)

## Features:

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



## Description:

The PSAW12NA series of AC/DC wall mount switching power supplies provide 20-36 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
PSAW12NA-10-B1	5VDC	1.50A	7.5W	±5%	60mV	VI
PSAW12NA-10A-B1	5VDC	2.00A	10W	±5%	60mV	VI
PSAW12NA-11-B1	9VDC	1.00A	10.8W	±5%	60mV	VI
PSAW12NA-12-B1	12VDC	1.00A	12W	±5%	60mV	VI
PSAW12NA-13-B1	15VDC	0.80A	12W	±5%	60mV	VI
PSAW12NA-14-B1	24VDC	0.50A	12W	±5%	60mV	VI

<b>Specifications</b>	
<b>Input</b>	
Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	1.2A Max.
Safety Isolation	3000VAC Input to Output
Inrush Current	<40A peak @ 264VAC, cold start at 25°C
No Load Power Consumption	<100mW, meets DOE level VI Requirements
<b>Output</b>	
Total Output	see table for details
Output Voltage	see table for details
Turn on Time	20-30mS nominal
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
<b>Protection Features</b>	
Overcurrent Protection	200% Max. of rated current. Auto-restart when fault removed.
Short Circuit Protection	Hiccup Mode. Auto Recovery
Overvoltage Protection	150% Max of rated voltage. Latching mode. Cycle AC for recovery.
<b>Environmental</b>	
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% - 95% non-condensing
<b>General Specifications</b>	
Dimensions	2.91"(59mm) x 1.65"(40.9mm) x 1.14"(26.4mm)
Weight	0.44lbs
MTBF	>100,000 hours per MIL-HDBK-217F at full load and 25°C ambient
AC Input Receptacle	Fixed North American AC Blade (others available)
DC output Plug	Barrel Type: 5.5mm x 2.1mm x 9.5mm Center positive (others available)

<b>Specifications Continued</b>	
<b>Safety</b>	
Approved to USA/Canada	UL60950-1 Cul60950-1
<b>EMC</b>	
EMC	FCC Class B Radiated & Conducted
Harmonic Currents	IEC 61000-3-2
Voltage Flicker	IEC 61000-3-3
Electrostatic Discharge	IEC 61000-4-2
Radiated Immunity	IEC 61000-4-3
EFT/Burst	IEC 61000-4-4
Surge Immunity	IEC 61000-4-5
Conducted Immunity	IEC 61000-4-6
Magnetic Field	IEC 61000-4-8
Dips/Interruptions	IEC 61000-4-11

## Mechanical Outline

## Diagrams

