



Size: 4in x 2in x 1.28in (50.8mm x 106.6mm x 32mm)

OPTIONS

- Output Voltage -12V-48V
- Output Power
- Rated 120W Max. 150W Peak 200W

FEATURES

- Designed for BF application
- Safety Class II
- 12V output for fan
- High mechanical torque start-up
- UL/CSA/EN60950-1 2nd Edition. ANSI/AMMI/CSA/EN60601-1 3.1 • Energy star Level VI **Edition Safety Approvals**
- · Convention cooling for rated load
- Forced air for max. load
- Wide input voltage 90~264VAC
- Over load, Over Voltage, and Short Circuit Protection

 - High Operating Altitude

APPLICATIONS

 Medical and ITE General Purpose

DESCRIPTION

The PSSNP-G12 series of AC DC open frame power supplies offers rated output power of 120 watts, max output power of 150 watts, and a peak output power of 200 watts of output power in a 4" x 2" x 1.28" frame. This series consists of single output models with a wide input voltage range of 90~264VAC and output voltages available ranging from 12V~48V. Each model of this series is protected against over load, over voltage, and short circuit protection and are Energy Star Level VI compliant. This series also has UL/CSA/EN60950-1 2nd Edition, ANSI/AMMI/CSA/EN60601-1, 3.1 Edition safety approvals.

MODEL SELECTION TABLE													
Model Number ⁽⁴⁾	Input Voltage	Output	Output Current			t	Step Efficiency			Output Power			Average
Woder Number	Range	Voltage	Min.	Rated	Max.	Peak	@20% Load	@50% Load	@100% Load	Rated	Max.	Peak	Efficiency
PSSNP-G127													
PSSNP-G127-A	90~264VAC	12V	0A	10.0A	12.5A	16.6A	82%	89%	90%	120W	150W	200W	86.5%
PSSNP-G127-M													
PSSNP-G127-MA													
PSSNP-G128	90~264VAC	15V	0A	8.0A	10.0A	13.4A	82%	89%	90%	120W	150W	200W	86.5%
PSSNP-G128-A													
PSSNP-G128-M													
PSSNP-G128-MA													
PSSNP-G125													
PSSNP-G125-A	90~264VAC	18V	0A	6.6A	8.3A	11.1A	82%	89%	90%	120W	150W	200W	86.5%
PSSNP-G125-M													
PSSNP-G125-MA													
PSSNP-G129													
PSSNP-G129-A	90~264VAC	24V	0A	5A	6.3A	8.3A	83.5%	90%	90.5%	120W	150W	200W	88%
PSSNP-G129-M													
PSSNP-G129-MA													
PSSNP-G12G	90~264VAC	28V	0A	4.3A	5.4A	7.2A	83.5%	90%	90.5%	120W	150W	200W	88%
PSSNP-G12G-A													
PSSNP-G12G-M													
PSSNP-G12G-MA													
PSSNP-G12J													
PSSNP-G12J-A	90~264VAC	36V	0A 3	2.44	4.04	5.6A	83.5%	90%	90.5%	120W	150W	200W	88%
PSSNP-G12J-M				3.4A	4.2A								
PSSNP-G12J-MA													
PSSNP-G12T	90~264VAC	48V	0A	2.5A	3.1A	4.2A	83.5%	90%	90.5%	120W	150W	200W	88%
PSSNP-G12T-A													
PSSNP-G12T-M													
PSSNP-G12T-MA													



SPECIFICATIONS All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances. **SPECIFICATION** TEST CONDITIONS Min Max Unit Typ INPUT SPECIFICATIONS Input Voltage Range 90 264 VAC Input Frequency 47 Hz 63 Inrush Current @115/230VAC <30/60 Α Earth Leakage Current <300 Leakage Current uΑ **Touch Current** <100 **OUTPUT SPECIFICATIONS** See Table Output Voltage 12V 11.9 15V 14.9 15.1 18V 17.9 18.1 Initial Accuracy 24V 23.8 24.2 ٧ 28.1 28V 27.9 36V 35.8 36.2 48V 47.8 48.2 **Output Power** See Table **Output Current** See Table Hold-Up Time 20 mS **PROTECTION** Short Circuit Protection Auto Recovery Over Load Protection Auto Recovery **ENVIRONMENTAL SPECIFICATIONS** Operating Temperature -20 70 °C Derating: 2.5%/°C>45°C for convention cooling °C Storage Temperature -40 +85 Cooling For Rated Load Convention Cooling For Max. load Forced Air **GENERAL SPECIFICATIONS** Efficiency See Table Peak Load Duration Peak 200W Sec Primary 4 **→** Ground (1500)MOPP Primary -Secondary 2 Isolation Grade (4000)(VAC) Secondary **←** Ground (1500)PHYSICAL SPECIFICATIONS Weight 5.64oz (160g) Dimensions (L x W x H) 4in x 2in x 1.28in (106.6 x 50.8 x 32.0mm) SAFETY & EMC CHARACTERISTICS UL/CSA/EN60950-1 2nd Edition⁽⁵⁾ ANSI/AMMI/CSA/EN60601-1, 3.1 edition Safety Approvals **CB** Report CE Mark Rm report/file EB55022 "B" $EMI^{(3)}$ EN61000-3-3 EMS EN61000-4-2, -3, -4, -5, -6, -8, -11 EN61000-3-2 Class D Harmonics For computers version 6.0

NOTES

(1) Standby Power Consumption with System:

Energy Saving (Without A Suffix)

For computers and displays, Energy Star in U.S. and ErP regulation in Europe require the input power should be less than 0.5W at standby mode.

For displays version 6.0 ErP regulation EC(No) 1275/2008

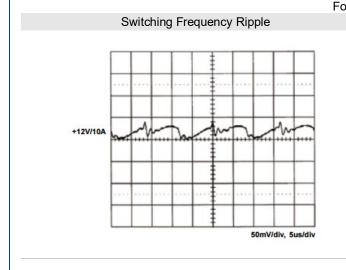
- (2) Output Load: 120W for convention cooling; 150W for forced air cooling.
- (3) EMI grounding: If there is a metal sheet under the power supply, connect the EMI ground to the metal sheet.
- (4) Most power supplies will create audible bust sound at light load, if the application wants to meet input power <0.5W at standby mode. PSSNP-G12x is for ITE application which requires standby mode.
 - PSSNP-G12x-A is for ITE application but without burst sound and no standby mode.

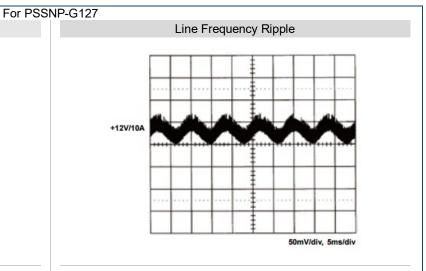
ENERGY STAR

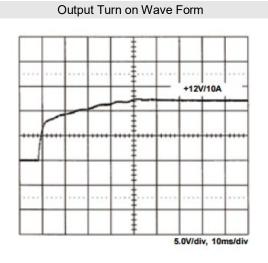
- PSSNP-G12x-M is for medical application which requires standby mode.
- PSSNP-G12x-MA is for medical application but without burst sound and no standby mode.
- (5) This product is Listed to applicable standards and requirements by UL.
- *Due to advances in technology, specifications subject to change without notice.

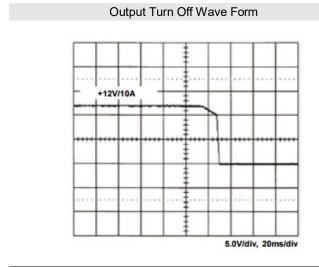


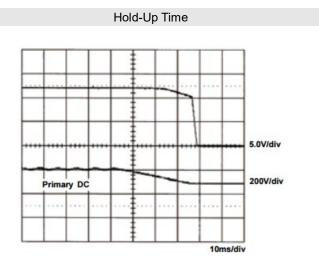
PERFORMANCE CURVES -

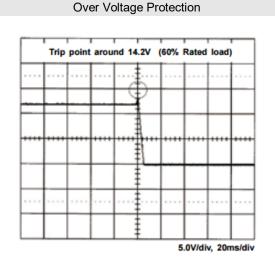




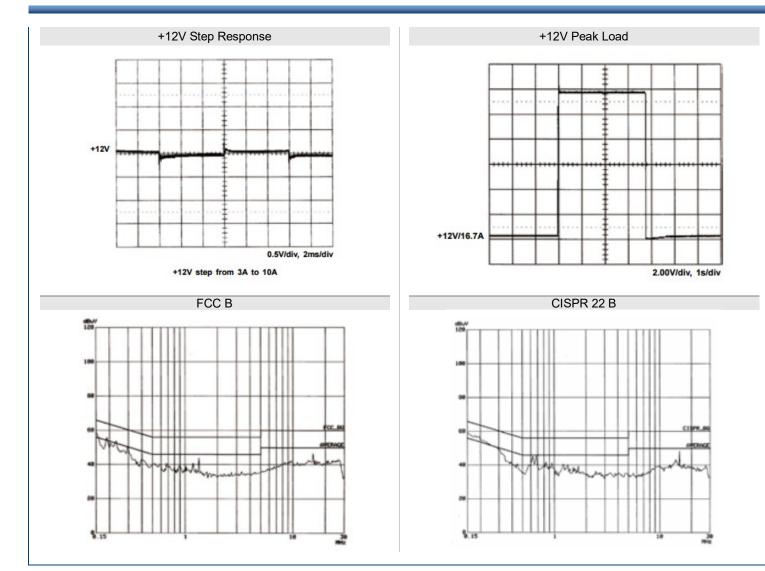




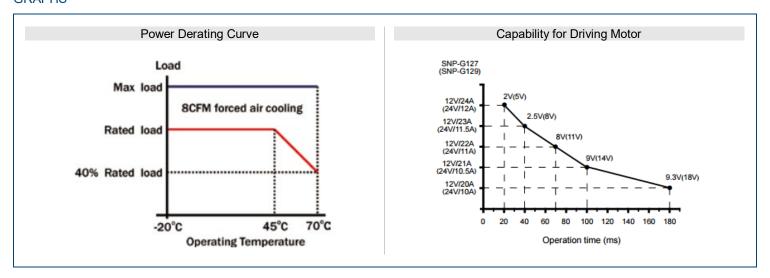






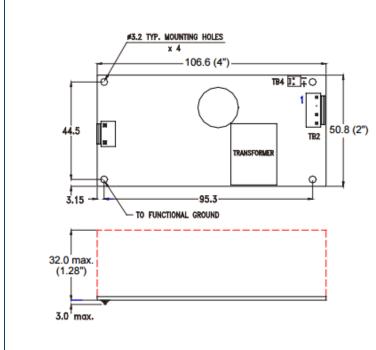


GRAPHS





MECHANICAL DRAWINGS



Notes:

- 1. Size: 4" x 2" x 1.28"
- 2. Mounting Hole: 44.5 x 95.3 (mm)
- Connectors:

AC input: JST B2P3-VH or equivalent DC output: JST 710--VH04

Fan: Molex 5045-02A or equivalent

4. Input: Either pin can be line or neutral.

5. Output Pin assignment:

1		2	3	4		
Vo)	Vo	GND	GND		

Function Pin Assignment:

	TB3
Function	FAN
Pin	Output
1	GND
2	+12V

6. Packing:

Net Weight: 5.64oz. (160g) approx./unit Gross Weight: 10 kg approx. /carton, 80 units/carton Carton size (mm): 422 (L) x 412 (W) x 287 (H)

COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001: 2015 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

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