



Size: 5in x 3in x 1.42in (127mm x 76.2mm x 36.1mm)

FEATURES

- Wide Input Voltage of 90-264VAC
- Design for BF Application
- Safety Class II
- High Mechanical Torque Start-Up
- 12V Output For Fan
- Convection Cooling for Rated Load
- U Shape or Metal Box
- Over Load, Over Voltage, and Short Circuit Protection
- UL/CSA/EN60950-1 2nd Edition, and ANSI/AMMI/CSA/EN60601-1 3.1 Edition Safety Approvals

DESCRIPTION

The PSSNP-G16 series of AC/DC open frame power supplies offers rated 160 watts, max. 240 watts, and a peak of 320 watts of output power in a compact 5" x 3" x 1.42" frame. This series consists of single output models with a wide input voltage of 90-264VAC. Each model in this series has high mechanical torque start-up as well as over load, over voltage, and short circuit protection. This series has UL/CSA/EN60950-1 2nd Edition and ANSI/AMMI/CSA/EN60601-1 3.1 edition safety approvals. Please call factory for order details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current ⁽²⁾				Initial Accuracy	Output Power			Efficiency			Avg. Efficiency
			Min.	Rated	Max.	Peak		Rated	Max.	Peak	20%	50%	100%	
PSSNP-G167xy	90-264VAC	12V	0A	13.3A	20A	26.6A	11.9~12.1V	160W	240W	320W	80%	88%	89%	85.5%
PSSNP-G168xy		15V	0A	10.66A	16A	21.3A	14.9~15.1V	160W	240W	320W	80%	88%	89%	85.5%
PSSNP-G165xy		18V	0A	8.88A	13.33A	17.8A	17.9~18.1V	160W	240W	320W	80%	88%	89%	85.6%
PSSNP-G169xy		24V	0A	6.66A	10A	13.3A	23.9~24.1V	160W	240W	320W	80%	87%	89%	85.3%
PSSNP-G16Gxy		28V	0A	5.7A	8.55A	11.4A	27.9~28.1V	160W	240W	320W	80%	90%	90%	86.6%
PSSNP-G16Jxy		36V	0A	4.45A	6.66A	8.9A	35.8~36.2V	160W	240W	320W	80%	89%	89%	86%
PSSNP-G16Txy		48V	0A	3.35A	5A	6.67A	47.8~48.2V	160W	240W	320W	90%	90%	89%	86.6%

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	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		90		264	VAC
Input Frequency		47		63	Hz
Inrush Current	@115/230VAC			30/60	A
OUTPUT SPECIFICATIONS					
Output Voltage				See Table	
Voltage Accuracy				See Table	
Output Power				See Table	
Output Current				See Table	
Hold-Up Time			20		mS
PROTECTION					
Short Circuit Protection				Automatic Recovery	
Over Load Protection				Automatic Recovery	
Over Voltage Protection				Latch Off	
ENVIRONMENTAL SPECIFICATIONS					
Operating Case Temperature	Derating: 2.5%/°C>50°C (for Convection Cooling)	-20		70	°C
Storage Temperature		-40		+85	°C
Operation Altitude			5,000		M
GENERAL SPECIFICATIONS					
Efficiency				See Table	
Isolation Grade	Primary ↔ Ground			1MOPP (1500VAC)	
	Primary ↔ Secondary			2MOPP (4000VAC)	
	Secondary ↔ Ground			1MOPP (1500VAC)	
Leakage Current	Earth Leakage Current			<300uA	
	Touch Current			<100uA	

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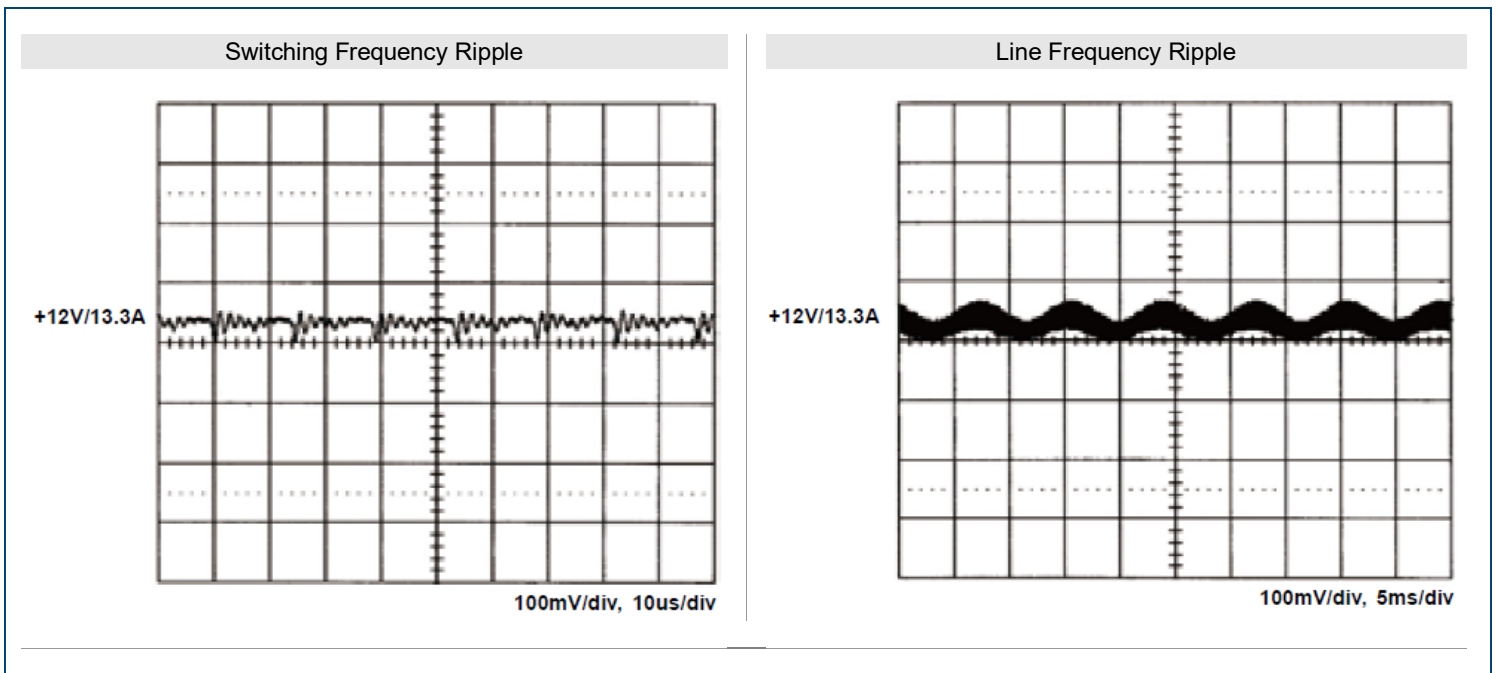
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
PHYSICAL SPECIFICATIONS					
Weight				12.45oz (353g)	
Dimensions (L x W x H)				5in x 3in x 1.42in (127mm x 76.2mm x 36.1mm)	
Cooling	Rated Load			Convection Cooling	
	Max. Load			Forced Air	
SAFETY CHARACTERISTICS					
Safety Approvals		UL/CSA/EN60950-1, 2 nd Edition ⁽⁶⁾ ANSI/AMMI/CSA/EN60601-1, 3.1 Edition CB Report, CE Mark, RM report/file			
EMI ⁽⁴⁾		EN55022 "B", EN61000-3-3			Class
Harmonics		EN61000-3-2, Class D			
EMS		EN61000-4-2, 3, 4, 5, 6, 8, 11			
Energy Saving		Energy Star ErP Regulation EC(No) 1275/2008		Version 6.0 for computers and displays	

NOTES

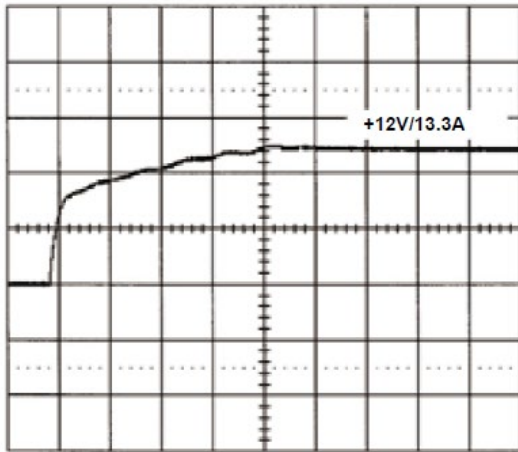
- Most power supplies will create audible burst sound at light load, if the application is to meet input power <0.5W at standby mode.
"X" = Blank for ITE application which requires standby mode
"X" = "A" for ITE application without burst sound and no standby mode
"X" = "M" for medical application which requires standby mode
"X" = "MA" for medical application but without burst sound and no standby mode.
"Y" = "U" for U-Shape Case
"Y" = "C" for Metal Box
- 160W for convection cooling; 240W for forced air cooling
- Peak Load Duration: 320W can last for 5 sec.
- If there is a metal sheet under the power supply, connect the EMI ground to the metal sheet.
- Energy saving for models without A suffix.
- This product is Listed to applicable standards and requirements by UL.

**Due to advances in technology, specifications subject to change without notice.*

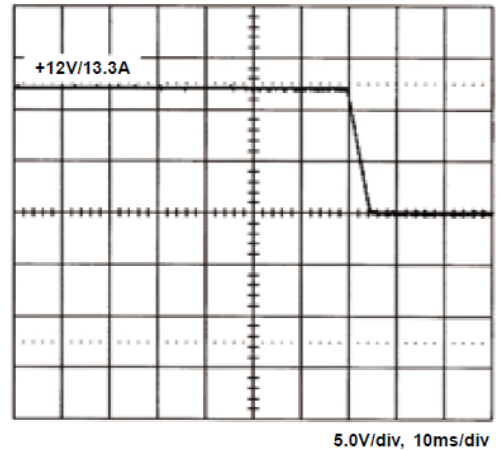
CHARACTERISTIC CURVES



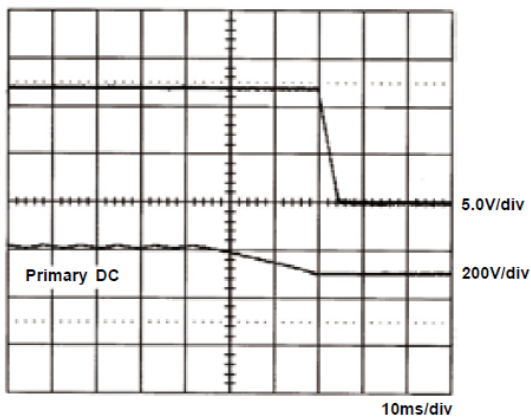
Output Turn On Wave Form



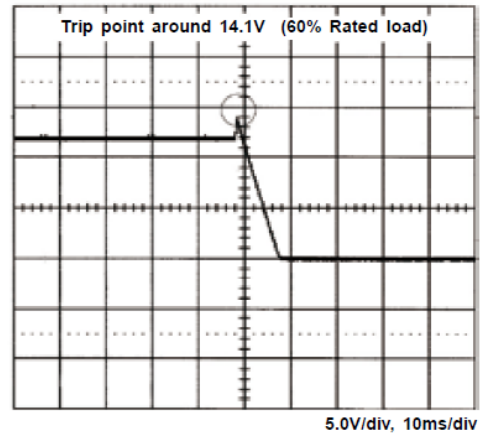
Output Turn Off Wave Form



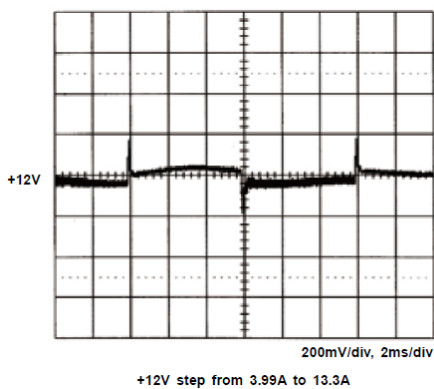
Hold-Up Time



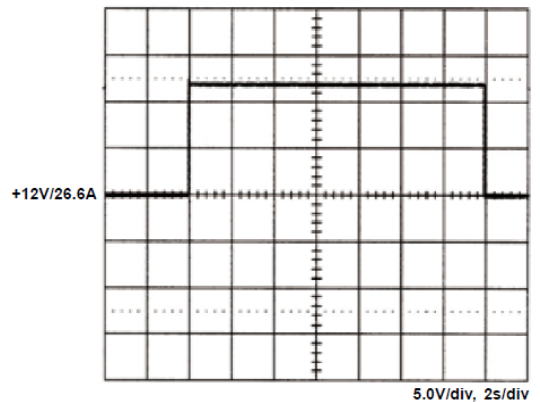
Over Voltage Protection



+12V Step Response

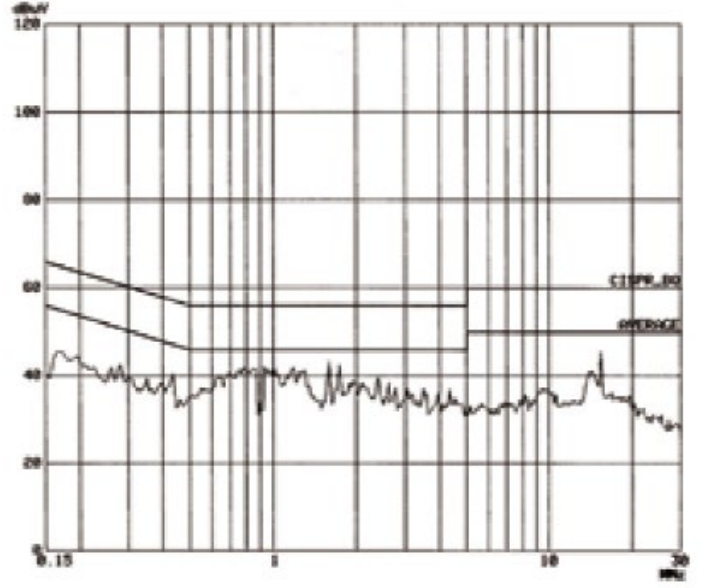
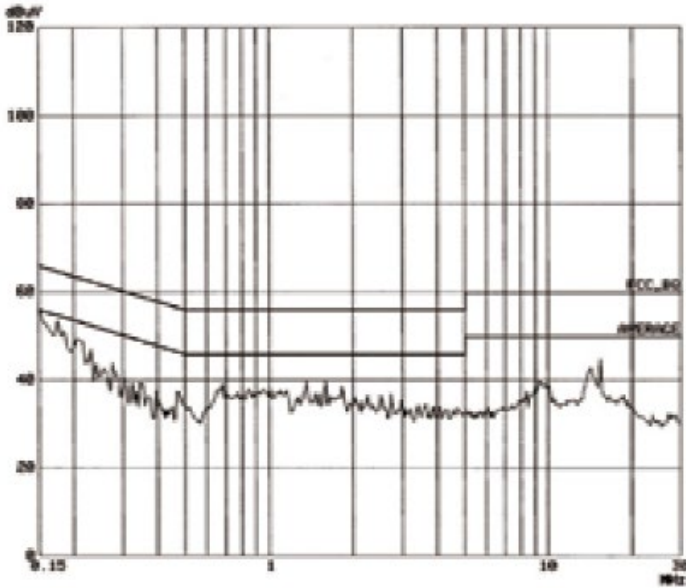


Peak Load

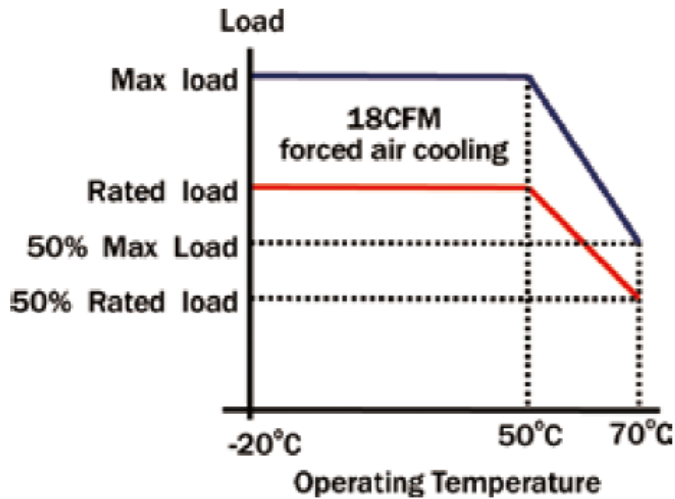


FCC B

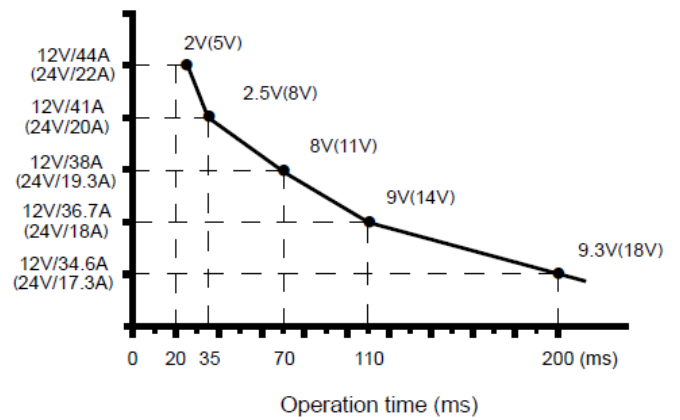
EN55022 B



Power Derating Curve



Capability for Driving Motor (PSSNP-G167, PSSNP-G169)



MECHANICAL DRAWINGS

Notes:

1. Mounting Hole: 64.8mm x 115.6mm
2. Connectors:
AC Input: Molex 5277-02A or equivalent
DC Output: Terminal Blocks (default for PSSNP-G167 or Molex 5273-08A (default for others) or equivalent
Fan, Remote Sense: Molex 5045-02A or equivalent
3. Output Pin Assignment:

Pin No.	1	2	3	4	5	6	7	8
PSSNP-G167	+Vo	+Vo	GND	GND				
Other Models	+Vo	+Vo	+Vo	+Vo	GND	GND	GND	GND

Function Pin Assignment

		TB3	TB4
Pin	Function	Fan Output	Remote Sense
	1	GND	Sense -
2	+12V	Sense +	

4. Packing:
Net Weight: Approx. 353g/unit
Gross Weight: Approx. 15kg/carton, 36 units/carton
Carton Size: 384mm (L) x 339mm (W) x 327mm (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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