Size: 3.17in x 2in x 0.95in (80.5mm x 50.8mm x 24mm)

FEATURES

- Input Voltage Range of 90-264VAC
- Design for BF Application
- Meets 2 X MOPP and Contact Leakage < 100uA
- High Mechanical Torque Start-Up
- Safety Class II & EMI Class B
- High Efficiency up to 89%
- Follow ErP Directive of EU
- Convection Cooling for Rated Load
- Forced air for Max. Load
- Over Load, Short Circuit, Over Voltage Protection
- UL/CSA/EN60950-1, 2nd Edition and ANSI/AMMI/CSA/EN60601-1, 3.1 Edition

DESCRIPTION

The PSSNP-HF6 series of AC/DC medical open frame power supplies offers rated output power of 60 watts, a max output power of 72 watts, and a peak output power of 96 watts in a 3.17" x 2" x 0.95" package. This series consists of single output models with a wide input voltage range of 90-264VAC. Each model in this series has high mechanical torque start-up as well as over load, short circuit, and over voltage 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				Initial Accuracy	Output Power			Step Efficiency			Average Efficiency
			Min	Rated	Max.	Peak		Rated	Max.	Peak	20% Load	50% Load	100% Load	
PSSNP-HF67 PSSNP-HF67A	90-264VAC	12V	0A	5A	6.67A	7.5A	11.8~12.2V	60W	72W	96W	88% 78%	89% 83%	86% 84%	87% 82%
PSSNP-HF68 PSSNP-HF68A		15V	0A	4A	5.33A	6A	14.8~15.2V	60W	72W	96W	88% 75%	89% 85%	86% 85%	87% 82%
PSSNP-HF69 PSSNP-HF69A		24V	0A	2.5A	3.33A	3.75A	23.8~24.2V	60W	72W	96W	88% 75%	89% 83%	86% 85%	87% 82%
PSSNP-HF6T PSSNP-HF6TA(2)		48V	0A	1.25A	1.67A	1.88A	47.5~48.5V	60W	72W	96W	88% 79%	89% 84%	86% 87%	87% 83%

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	@115VAC			30	A
	@230VAC			60	
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Accuracy		See Table			
Output Power		See Table			
Output Current		See Table			
Hold-Up Time			16		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%/ºC > 50ºC	-40		+70	ºC
Storage Temperature		-40		+85	ºC
Operating Altitude			5,000		M
Cooling	Rated Load	Convection Cooling			
	Max. Load	Forced Air			

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
GENERAL SPECIFICATIONS					
Efficiency			See Table		
Isolation Grade	Primary←→Ground		1MOPP(1500VAC)		
	Primary←→Secondary		2MOPP(4000VAC)		
	Secondary←→Ground		1MOPP(1500VAC)		
Leakage Current	Earth Leakage			300	uA
	Touch Current			100	
PHYSICAL SPECIFICATIONS					
Weight			4.02oz (114g)		
Dimensions (L x W x H)			3.17in x 2in x 0.95in (80.5mm x 50.8mm x 24.0mm)		
SAFETY CHARACTERISTICS					
Safety Approvals	UL/CSA/EN60950-1, 2nd Edition(7) ANSI/AMMI/CSA/EN60601-1, 3.1 Edition CB Report CE Mark RM Report/File				
EMI(6)	EN55011 "B", EN61000-3-3				
Harmonics	EN61000-3-2				Class A
EMS	EN61000-4-2, 3, 4, 5, 6, 8, 11				
Energy Saving	Energy Star 6.0 For computers and displays ErP Regulation EC(No) 1275/2008				

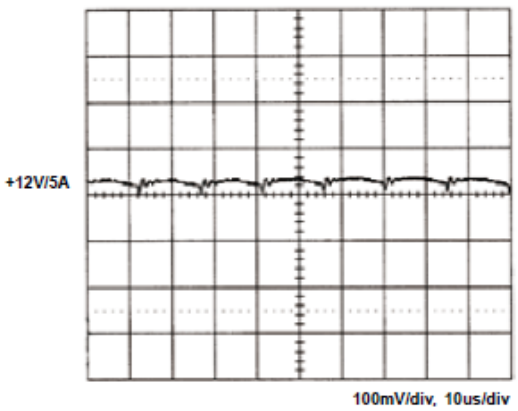
NOTES

1. Most of the power supplies will create audible burst sound at light load, if the application wants to meet input power <0.5W at standby mode.
   PSSNP-HF6x is for ITE & Medical applications which require standby mode.
   PSSNP-HF6xA is for ITE & Medical applications but without burst sound and no standby mode.
2. The safety application will be proceeded upon request.
3. Standby power consumption with system: for computers and displays, Energy Star in U.S. and ErP regulation in Europe require the input power to be less than 0.5W at standby mode.
4. Output Load: 60W for convection cooling; 72W for forced air cooling
5. Peak load duration: Peak 96W can last for 5 sec.
6. EMI Grounding: If there is a metal sheet under the power supply, connect the EMI ground to that metal sheet.
7. This product is Listed to applicable standards and requirements by UL.

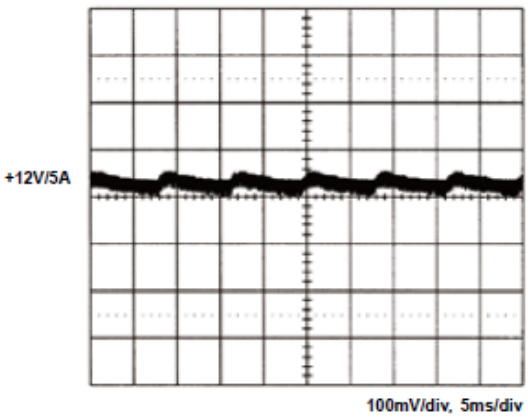
**Due to advances in technology, specifications subject to change without notice.*

PERFORMANCE CURVES (PSSNP-HF67-A)

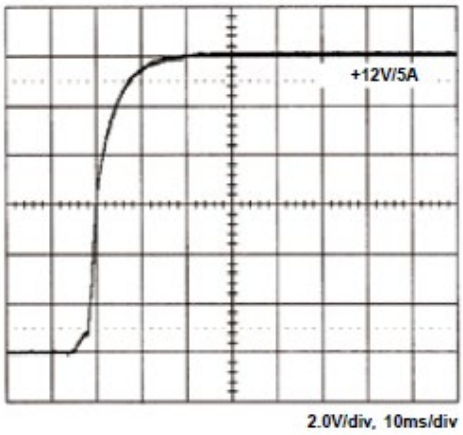
Switching Frequency Ripple



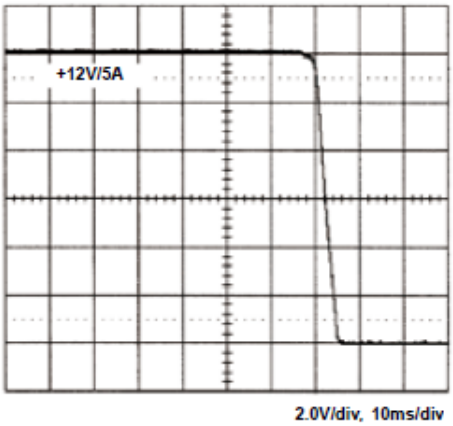
Line Frequency Ripple



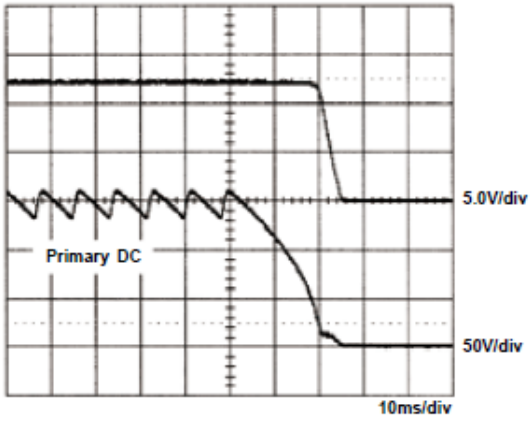
Output Turn On Wave Form



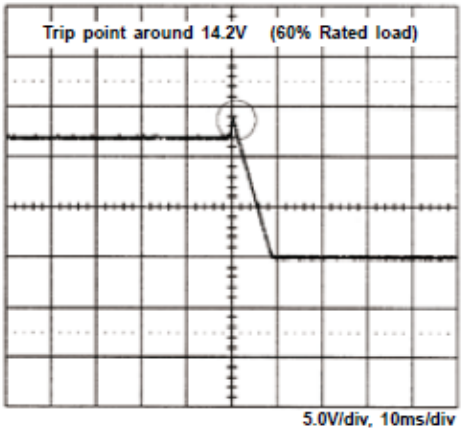
Output Turn Off Wave Form



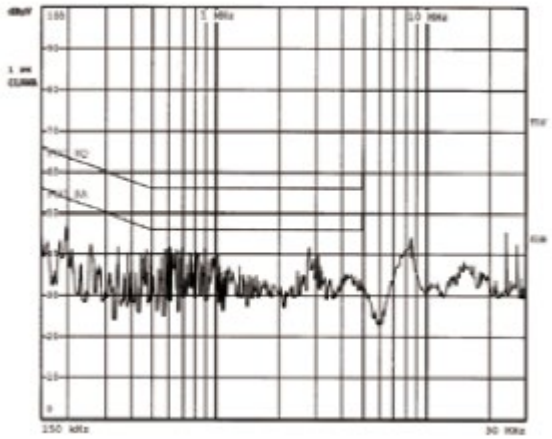
Hold-Up Time



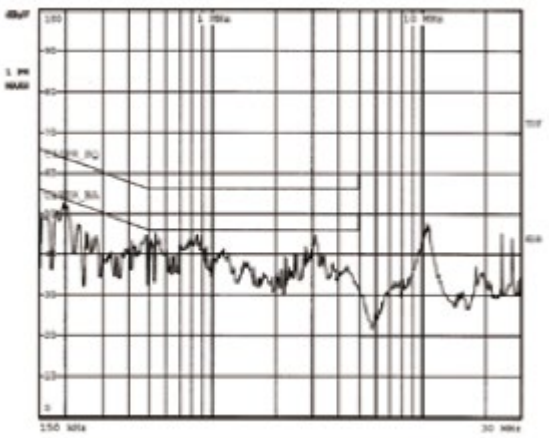
Over Voltage Protection



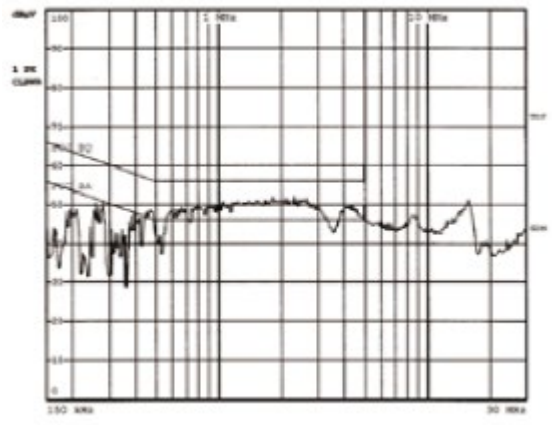
FCC B Class I



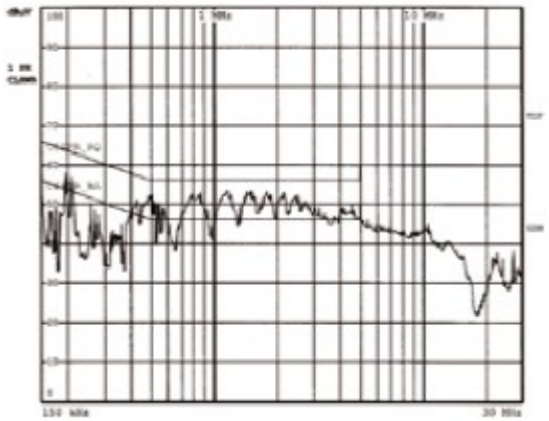
EN55011 22 B Class I



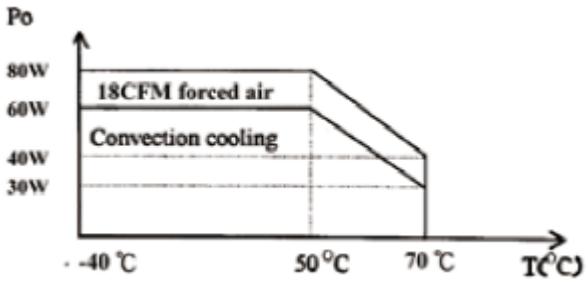
FCC Class II



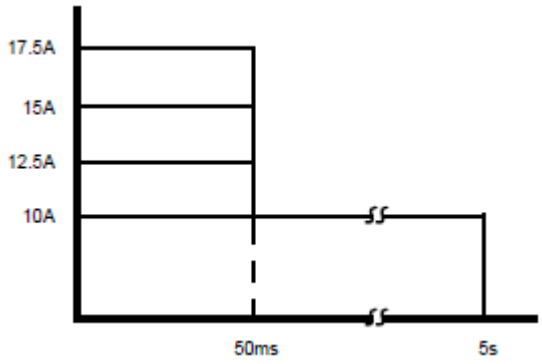
EN55011 22 B Class II



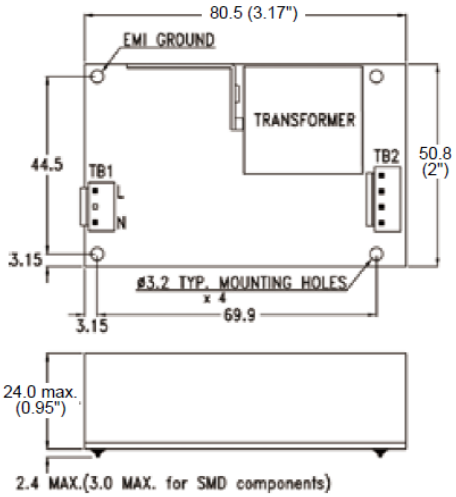
Power Derating



Power Derating Curve



MECHANICAL DRAWINGS



Notes:

1. Mounting Hole: 44.5mm x 69.9mm
2. Connectors:
   AC Input: JST B2P3-VH or equivalent
   DC Output: JST B4P-VH or equivalent
3. Output Pin Assignment:

1	2	3	4
Vo	Vo	GND	GND

4. Packing:
   Net Weight: Approx. 114g/unit
   Gross Weight: Approx. 14kg/carton, 100units/carton
   Carton Size: 437mm (L) x 402mm (W) x 240mm (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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