



Size: 4in x 2in x 1.2in (101.6mm x 50.8mm x 30.5mm)

FEATURES

- Input Voltage Range of 90 to 264VAC
- Design for BF application
- High Mechanical Torque Start-Up
- Meet 2 X MOPP and Contact Leakage <100uA
- Convection or Forced Air Cooling
- Safety Class II & EMI Class B
- Follow ErP Directive of EU
- Over Load, Short Circuit, Over Voltage Protection
- UL/CSA/EN60950-1, 2nd Edition and ANSI/AMMI/CSA/EN60601-1, 3.1 Edition Safety Approvals

DESCRIPTION

The PSSNP-HFA series of AC/DC medical open frame power supply offers rated output power of 100 watts, max output power of 130 watts, or peak output power of 150 watts in a compact 4" x 2" x 1.2" package. This series consists of single output models with input voltage range of 90 to 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, 3rd edition safety approvals.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current				Initial Accuracy	Output Power			Step Efficiency			Efficiency
			Min	Max	Max.	Peak		Rated	Max	Peak	20% Load	50% Load	100% Load	
PSSNP-HFA7	90-264VAC	12V	0A	7.5A	9.2A	11.7A	11.8~12.2V	100W	130W	150W	85%	86%	87%	86%
PSSNP-HFA7-A											80%	83%	83%	82%
PSSNP-HFA8		15V	0A	6.6A	8A	9.4A	14.8~15.2V	100W	130W	150W	85%	86%	87%	86%
PSSNP-HFA8-A											77%	83%	83%	81%
PSSNP-HFA9		24V	0A	4.17A	5.42A	6.25A	23.8~24.2V	100W	130W	150W	85%	86%	87%	86%
PSSNP-HFA9-A											82%	84%	85%	84%
PSSNP-HFAT	90-264VAC	48V	0A	2.1A	2.7A	2.92A	47.8~48.2V	100W	130W	150W	85%	86%	87%	86%
PSSNP-HFAT-A ⁽⁸⁾											81%	86%	86%	84%

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			-40		+70	°C
Storage Temperature			-40		+85	°C
Operation Altitude				5,000		m
Cooling	Rated Load		Convection Cooling			
	Max. Load		Forced Air			

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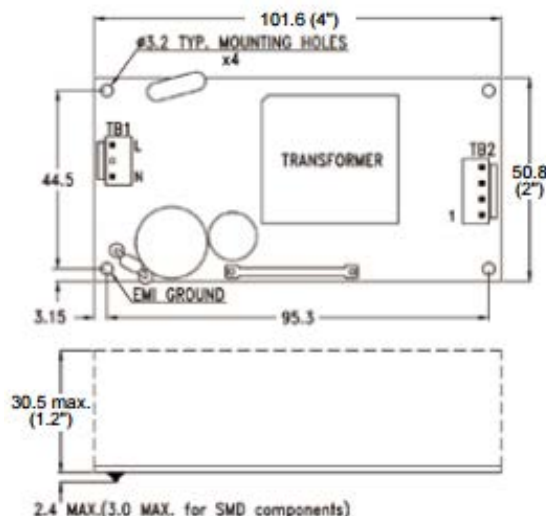
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Isolation Grade	Primary ↔ Ground	1MOPP (1500VAC)			
	Primary ↔ Secondary	2MOPP (4000VAC)			
	Secondary ↔ Ground	1MOPP (1500VAC)			
Leakage Current	Earth Leakage Current			300	uA
	Touch Current			100	
PHYSICAL SPECIFICATIONS					
Weight		5.82oz (165g)			
Dimensions (L x W x H)		4in x 2in x 1.2in (101.6mm x 50.8mm x 30.5mm)			
SAFETY CHARACTERISTICS					
Safety Approvals	UL/CSA/EN60950-1, 2 nd Edition ANSI/AMMI/CSA/EN60601-1, 3.1 Edition CB Report CE Mark RM Report/File				
EMI	EN55011 "B", EN61000-3-3				
Harmonics	EN61000-2-2, Cass 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) 1278/2008				

NOTES

- Most power supplies will create audible burst sound at light load, if the application meets input power <0.5W at standby mode. PSSNP-HFAx is for ITE & Medical applications which require standby mode. PSSNP-HFAx-A is for ITE & Medical applications but without burst sound and no standby mode.
- Standby Power Consumption with system:
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.
- Output Load: 100W for Convection cooling, 130W for forced air cooling.
- Peak Load Duration: Peak 150W can last for 5 sec.
- EMI Grounding: if there is metal sheet under the power supply, connect the EMI ground to that metal sheet.

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

MECHANICAL DRAWINGS



Notes:

- Mounting Hole: 44.5mm x 95.3mm
- Connectors:
AC Input: JST B2P3-VH or equivalent
DC Output: JST B4P-VH or equivalent
- Output Pin Assignment:

1	2
Vo	GND

- Packing:
Net Weight: Approx. 165g/unit
Gross Weight: Approx. 15.5kg/carton, 80 units/carton
Carton Size: 382mm (L) x 374mm (W) x 277mm (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 ISO9001-2008 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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