



Size: 7.5in x 4.5in x 1.65in  
(190.5mm x 114.3mm x 41.9mm)

**FEATURES**

- Input Voltage Range of 90-264VAC
- Max Output Power of 750 Watts
- Convection Cooling for Rating Power
- Built-In Active PFC
- Remote Sense Function
- Useful in Peak Load, BF<sup>(1)</sup>, and EMI Class B Applications
- Over Load, Short Circuit, and Over Voltage Protection
- With +12V Fan Output
- UL/CSA/EN60950-1, 2<sup>nd</sup> Edition, ANSI/AMMI/CSA/EN60601-1, 3.1 Edition, CB, CE, and RM Safety Approvals

**DESCRIPTION**

The PSSNP-50 series of AC/DC open frame power supplies offers rated output power of 500 watts, maximum output power of 750 watts, and peak output power of 1000 watts in a 7.5" x 4.5" x 1.65" package. This series consists of single output models with an input voltage range of 90-264VAC and built-in active PFC. Each model in this series has remote sense function, over load, short circuit, and over voltage protection, and are designed for BF applications. This series has UL/CSA/EN60950-1, 2<sup>nd</sup> Edition, ANSI/AMMI/CSA/EN60601-1, 3.1 edition, CB, CE, and RM safety approvals. Please call factory for order details.

**MODEL SELECTION TABLE**

Model Number	Input Voltage Range	Output Voltage	Output Current			Average Efficiency <sup>(2)</sup>	Output Power		
			Rated Load	Max. Load	Peak Load		Rated Power	Max. Power	Peak Power <sup>(3)</sup>
PSSNP-F507	90-264VAC	12V	41.60A	62.60A	83.20A	91%	500 Watts	750 Watts	1000 Watts
PSSNP-F509		24V	20.80A	31.30A	41.60A	92%			
PSSNP-F50T		48V	10.40A	15.60A	20.80A	93%			

**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.

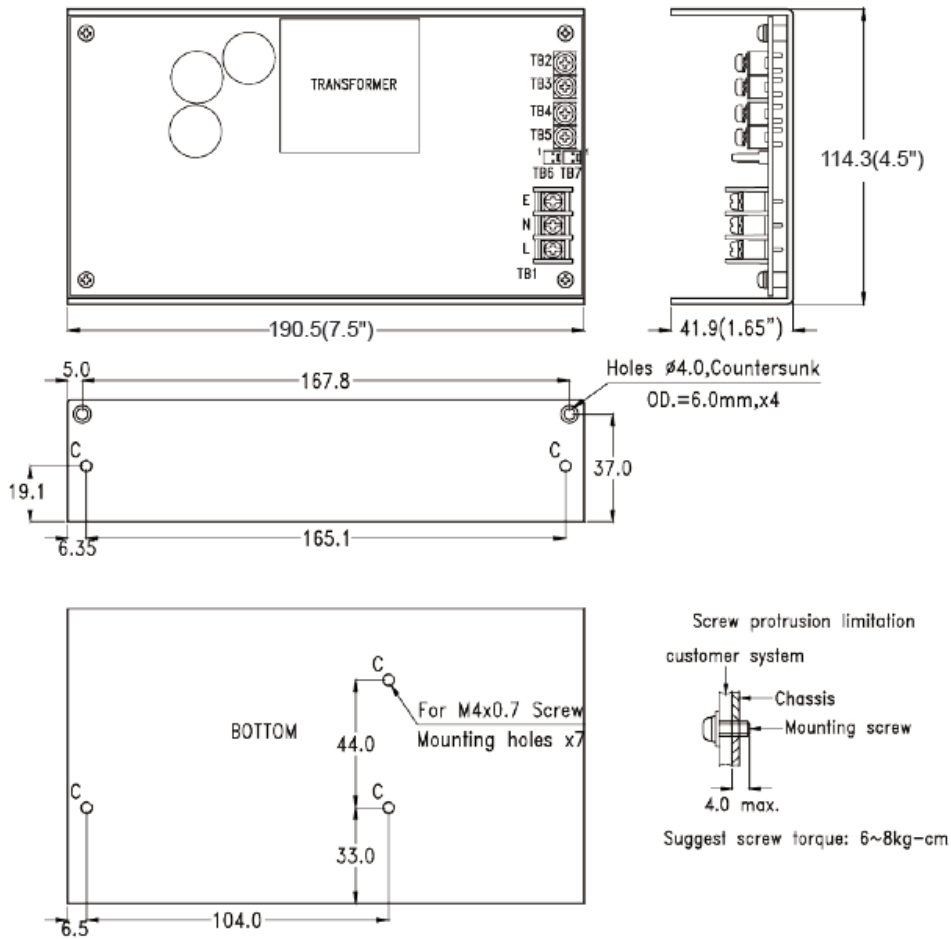
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
<b>INPUT SPECIFICATIONS</b>					
Input Voltage Range		90		264	VAC
Input Frequency		47		63	Hz
Inrush Current	@115/230VAC			30/60	A
<b>OUTPUT SPECIFICATIONS</b>					
Output Voltage		See Table			
Remote Sense		Yes			
Output Power		See Table			
Output Current		See Table			
Hold Up Time			12		mS
<b>PROTECTION</b>					
Short Circuit Protection		Latch Off			
Over Load Protection		Latch Off			
Over Voltage Protection		Latch Off			
<b>ENVIRONMENTAL SPECIFICATIONS</b>					
Operating Temperature	Derating: 2.5%/°C >50°C	-20		+70	°C
Storage Temperature		-40		+85	°C
Operation Altitude			5,000		m
Cooling	Rated Load Max. Load	Convection Cooling 10CFM Forced Air Cooling			
<b>GENERAL SPECIFICATIONS</b>					
Efficiency	115VAC Nominal Line and Rated Load	See Table			
<b>PHYSICAL SPECIFICATIONS</b>					
Weight		2.76 lbs(1.25kg)			
Dimensions (L x W x H)		7.5in x 4.5in x 1.65in (190.5mm x 114.3mm x 41.9mm)			
<b>SAFETY CHARACTERISTICS</b>					
Safety Approvals		UL/CSA/EN60950-1 2 <sup>nd</sup> Edition ANSI/AMMI/CSA/EN60601-1, 3.1 Edition CB Report, CE Mark, RM Report/File			
EMI		EN55011/EN55022 "B", FCC "B"			
Harmonics		EN61000-4-2, -3, -4, -5, -6, -8, -11			
EMS		EN61000-3-2			

**NOTES**

1. BF (body floating) application; Meets 2 x MOPP and Touch Current <100uA
2. Average efficiency is measured at 115VAC nominal line and rated load
3. Peak Load (2.0 x Rated Current, Vo= rated for 5 seconds.)

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

**MECHANICAL DRAWINGS**



**Connectors and Pin Assignment**

AC Input/TB1 (Terminal Block)	
Pin	Function
E	Earth
N	Neutral
L	Line

DC Input/TB2~5 (Terminal Block)	
Pin	Function
TB2	+V
TB3	+V
TB4	GND
TB5	GND

Fan Input (Molex 5045-02A)	
Pin	Function
1	+12V
2	GND

Remote Sense/TB7 (Molex 5045-02A)	
Pin	Function
1	RS+
2	RS-

---

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.

Contact **Wall Industries** for further information:

Phone: ☎ (603)778-2300  
Toll Free: ☎ (888)597-9255  
Fax: ☎ (603)778-9797  
E-mail: [sales@wallindustries.com](mailto:sales@wallindustries.com)  
Web: [www.wallindustries.com](http://www.wallindustries.com)  
Address: 37 Industrial Drive  
Exeter, NH 03833