



Size: 6.6in x 3.7in x 1.34in (167mm x 95mm x 34mm)

FEATURES

- Designed for BF Application
- Input Voltage Range of 90-264VAC
- 5VSB and 12V Fan Output
- Fan Speed Controlled by Load
- Remote On/Off & Remote Sense
- Power Good & Power Fail Signal
- High Mechanical Torque Start-Up
- Convection Cooling for Rated Load
- Forced Air For Max. Load
- Over Load, Short Circuit, and Over Voltage Protection
- UL/CSA/EN60950-1 2nd Edition, ANSI/AMMI/CSA/EN60601-1, 3rd Edition Safety Approvals

DESCRIPTION

The PSSNP-P30 series of AC/DC open frame power supplies offers rated output power of 300 watts, maximum output power of 420 watts, and a peak output power of 600 watts in a 6.6" x 3.7" x 1.34" package. This series consists of dual output models with an input voltage range of 90-264VAC. Each model in this series has remote on/off & remote sense, high mechanical torque start-up, and 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. Please call factory for ordering details.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current			Initial Accuracy	Output Power			Step Efficiency			Average Efficiency	
			Min	Rated	Max		Peak	Rated	Max.	Peak.	20%	50%		100%
PSSNP-P307-S	90-264VAC	+12V	0A	25A	35A	50A	+11.9V~+12.1V	300W	420W	600W	87%	90.5%	91%	89%
		+5VSB	0A	1A	1.5A		+4.5V~+5.5V							
PSSNP-P309-S		+24V	0A	12.5A	17.5A	25A	+23.9V~+24.1V	300W	420W	600W	87%	91%	91.5%	89%
		+5VSB	0A	1A	1.5A		+4.5V~+5.5V							
PSSNP-P30H-S (ITE Only)		+60V	0A	5A	7A	10A	+59.1V~+60.1V	300W	450W	600W	87%	91%	92%	90%
		+5VSB	0A	1A	1.5A		+4.5V~+5.5V							

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/230VAC			30/60	A
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Accuracy		See Table			
Remote ON/OFF, Standby Output, Fan Output, Remote Sense		2 x 5 (10 pins) 0.1 pitch			
Output Power		See Table			
Output Current		See Table			
Peak Load Capability	Vo=100% for 5 sec.		200		%
Surge Load Capability	Vo>40% for 1 sec.		300		%
Hold Up Time			18		mS
Standby Power	@No Load			0.2	W
Remote Off Status	@5VSB/40mA OUtput			0.5	W
PROTECTION					
Short Circuit Protection		Automatic Recovery			
Over Load Protection		Automatic Recovery			
Over Voltage Protection		Latch Off			
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derating: 2.5%/°C >50°C	-35		70	°C
Storage Temperature		-40		85	°C
Cooling	300W, Rated Load	Convection Cooling			
	420W, Max Load	Forced Air Cooling			
Altitude			5000		M

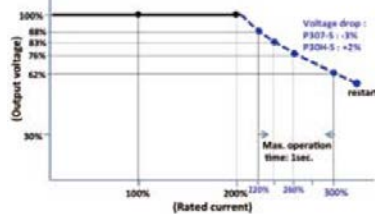
SPECIFICATIONS

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 Current			300	uA
	Touch Current			100	
PHYSICAL SPECIFICATIONS					
Weight		22.40oz (635g)			
Dimensions (L x W x H)		6.6in x 3.7in x 1.34in (167mm x 95mm x 34mm)			
SAFETY CHARACTERISTICS					
Safety Approvals		UL/CSA/EN60950-1, 2 nd Edition ANSI/AMMI/CSA/EN60601-1, 3.1 Edition			
EMI		EN55022 "B", EN61000-3-3			
Harmonics		EN61000-3-2, Class D			
EMS		EN61000-4-2, 3, 4, 5, 6, 8, 11			
Energy Saving		Energy Star Version 6.0 for computers and displays ErP Regulation EC(No) 2386/2008			

NOTES

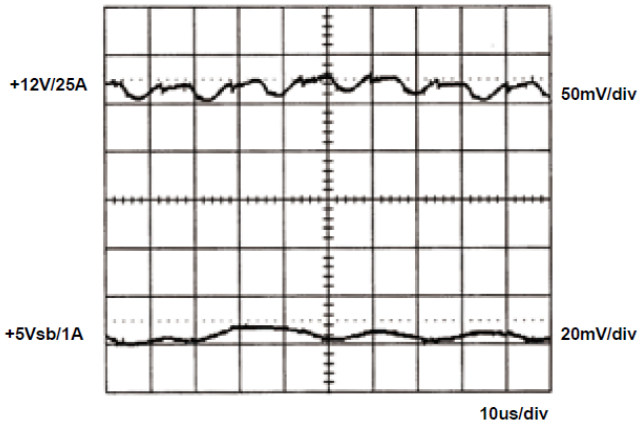
- Model Selection: PSSNP-P307-S and PSSNP-P307-S are for ITE & medical applications. PSSNP-P30H-S is only for ITE application.
- Standby Power Consumption with System: For computers and displays, Energy Star in U.S. and ErP regulation in Europe require the input power should be less than 0.5W at standby mode.
- Output Load: 300W for convection cooling; 420 watts for forced air cooling.
- Peak load duration: peak 600W can last for 5 sec.
- High Torque Output Current: For motor drive or audio amplifier, the output current can be up to 300% rated current within 1000ms, and output voltage can keep above 60% voltage. Example: PSSNP-P309-S



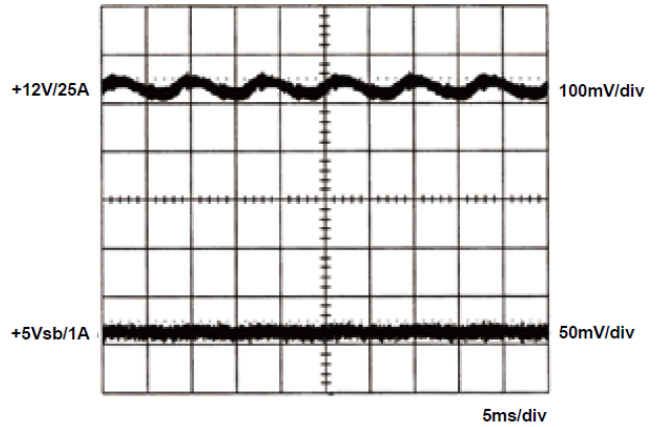
- *Due to advances in technology, specifications subject to change without notice.

PERFORMANCE CURVES (PSSNP-P307-S)

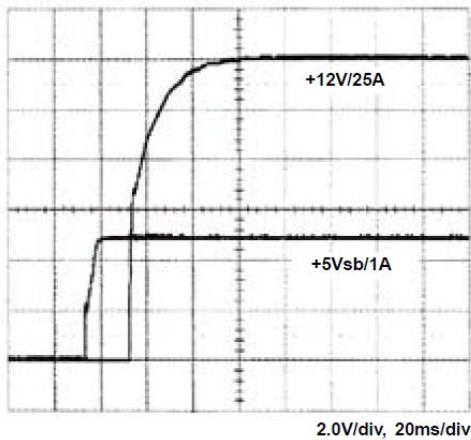
Switching Frequency Ripple



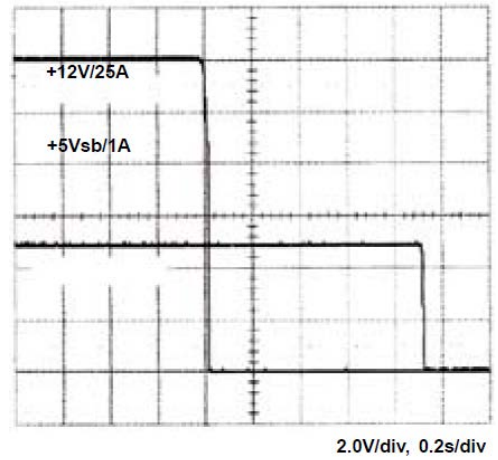
Line Frequency Ripple



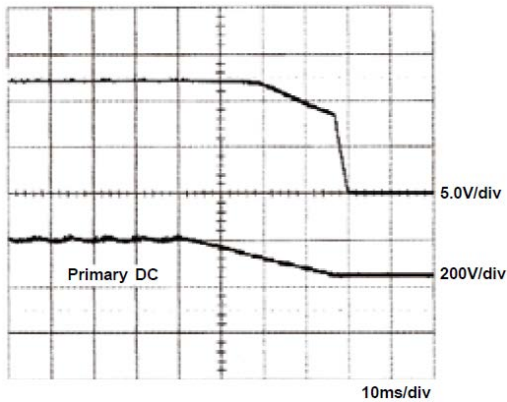
Output Turn On Wave Form



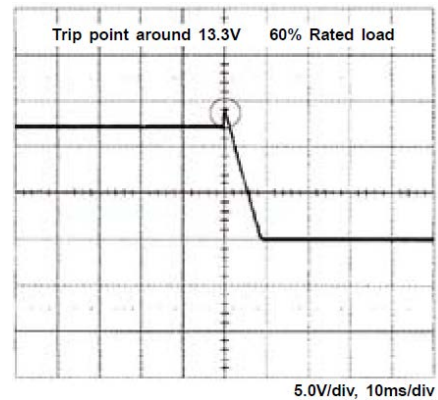
Output Turn Off Wave Form



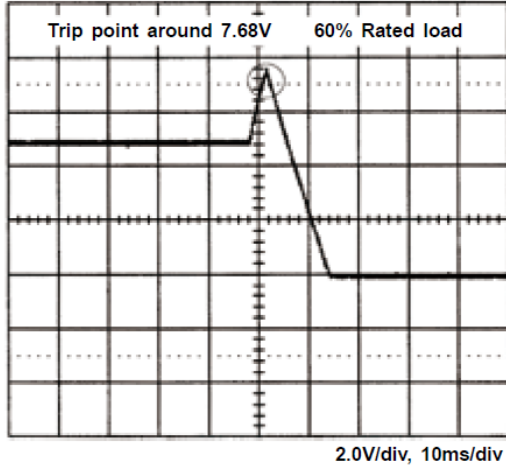
Hold-Up Time



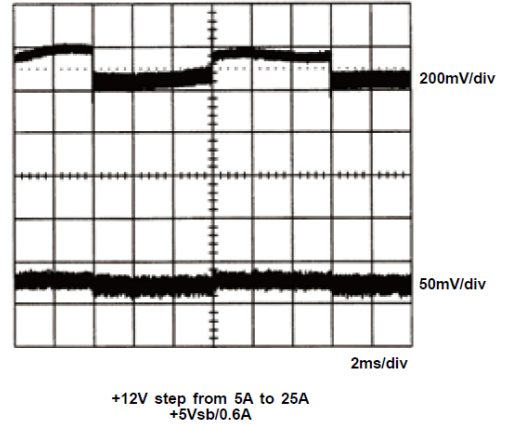
+12V Over Voltage Protection



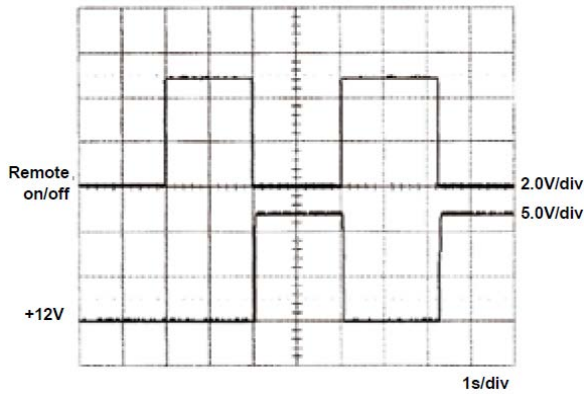
+5VSB Step Response



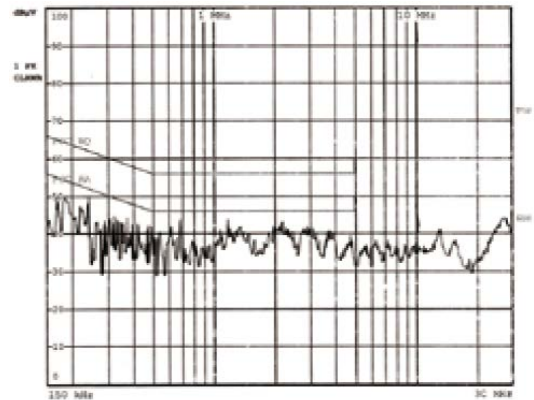
+12V Step Response



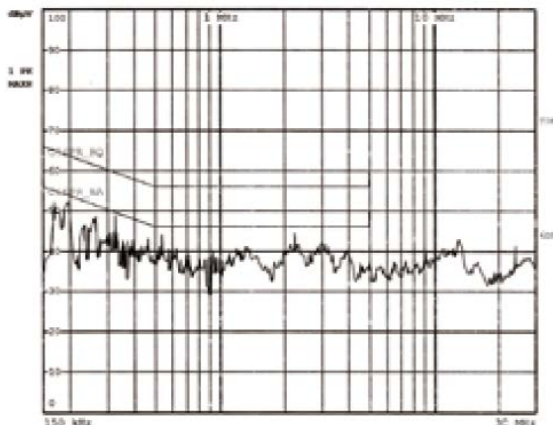
Remote On/Off



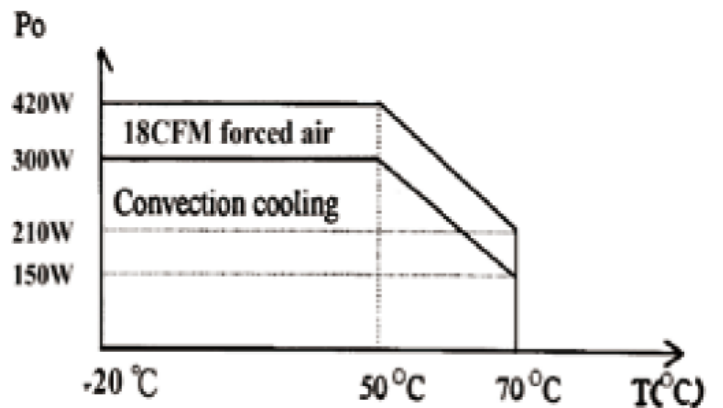
FCC B



EN55011 B



Power Derating Curve



MECHANICAL DRAWINGS

Notes:

1. Mounting Hole:
Side Edge: 155 x 29 (mm)
Bottom: 155 x 63 (mm)
2. Connectors:
AC Input: Using JST B5P-VH withdraw 2 pins or equivalent
DC Output: Using JST B12P-VH or equivalent
3. Remote ON/OFF & Standby Output & Fan Output & Remote Sense: 2 x 5 (10 pins) 0.1 pitch
4. Output Pin Assignment

1~6	7~12
Vo	GND

Function Pin Assignment (TB3)

Pin 1	FAN GND	Pin 2	FAN
3	RS+	4	GND
5	RS-	6	+5VSB
7	GND	8	Remote
9	PG/PF	10	GND

5. Packing:
Net Weight: 635g approx./unit
Gross Weight: 15.5kg approx./carton, 20 units/carton
Carton Size (mm): 453 x 362 x 279

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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