



Size: 5in x 3in x 1.07in (127mm x 76.2mm x 27.1mm)

FEATURES

- 90-264VAC Input Voltage Range
- Design for BF Application
- Remote On/Off
- High Efficiency up to 89%
- +5VSB & +12V Fan Output
- Convection Cooling for Rated Load
- Over Load, Short Circuit, and Over Voltage Protection
- UL/CSA/IEC60950-1, 2nd Edition and ANSI/AMMI/CSA/IEC60601-1, 3rd Edition Safety Approvals

DESCRIPTION

The PSSNP-P15 series of AC/DC open frame medical power supplies offers rated output power of 154 watts, maximum output power of 185 watts, and peak output power of 220 watts in a 5" x 3" x 1.07" package. This series consists of dual output models with a wide input voltage range of 90-264VAC. Each model in this series has high efficiency as well as over load, short circuit, and over voltage protection. This series has UL/CSA/IEC60950-1, 2nd edition and ANSI/AMMI/CSA/IEC60601-1, 3rd edition safety approvals.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current			Initial Accuracy	Output Power			Step Efficiency			Avg. Efficiency
			Min Load	Rated Load	Peak Load		Rated	Max.	Peak	20%	50%	100%	
PSSNP-P157-S	90-264VAC	+12V +5VSB	0A	12A 2A	18A	11.9~12.1V	154W	185W	220W	83%	87%	86%	85%
PSSNP-P158-S		+15V +5VSB	0A	9.6A 2A	14.4A	14.9~15.1V	154W	185W	220W	83%	87%	86%	85%
PSSNP-P155-S		+18V +5VSB	0A	8A 2A	12A	17.9~18.1V	154W	185W	220W	83%	87%	86%	85%
PSSNP-P159-S		+24V +5VSB	0A	6A 2A	9A	23.9~24.1V	154W	185W	220W	83%	87%	86%	85%
PSSNP-P15G-S		+28V +5VSB	0A	5.1A 2A	7.7A	27.9~28.1V	154W	185W	220W	83%	87%	86%	85%
PSSNP-P15J-S		+36V +5VSB	0A	4A 2A	6A	35.8~36.2V	154W	185W	220W	83%	87%	86%	85%
PSSNP-P15T-S		+48V	0A	3A 2A	4.5A	47.8~48.2V	154W	185W	220W	83%	87%	86%	85%
		+5VSB											

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	
Green Power	@No Load/5VSB/0.1A			0.5/1	W
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Accuracy		See Table			
Remote Control		Active Low			
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	-20		+70	°C
Storage Temperature		-40		+85	°C
Operation Altitude			3,000		m
Cooling		Convection Cooling			

SPECIFICATIONS

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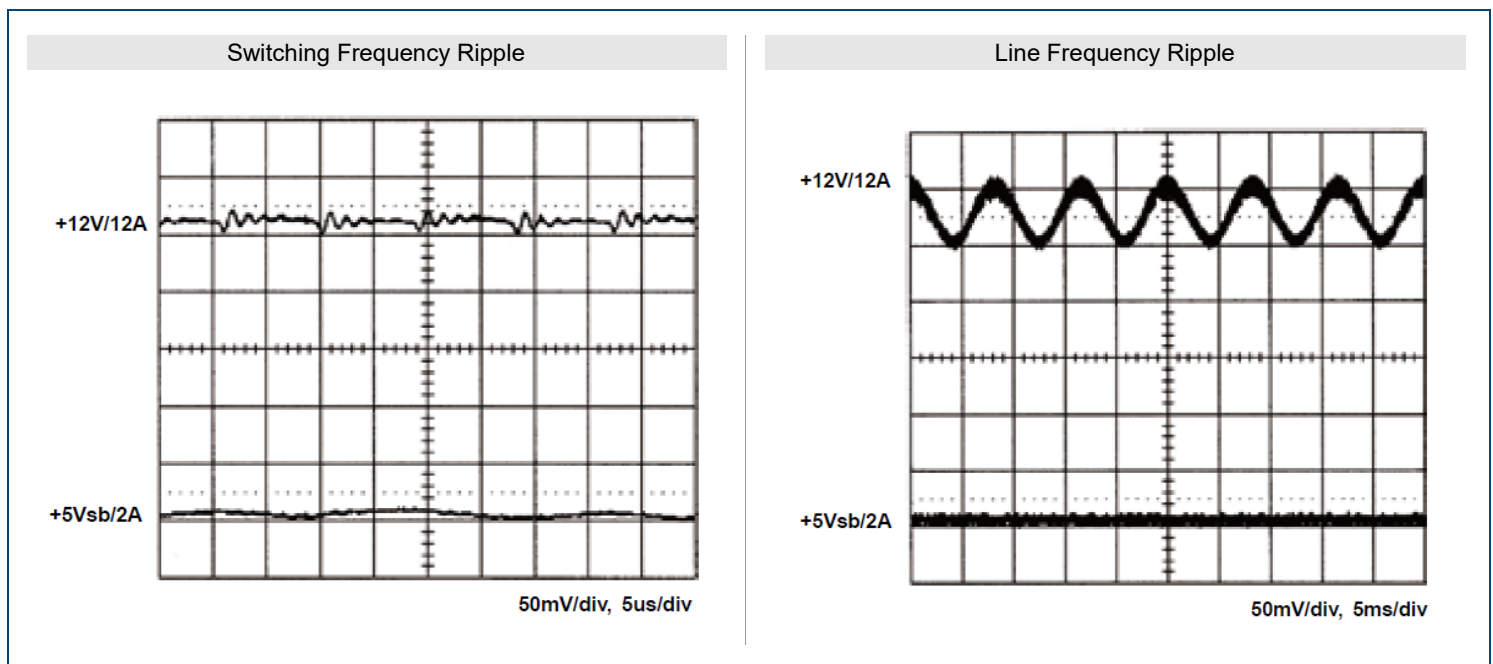
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
GENERAL SPECIFICATIONS					
Efficiency			See Table		
Isolation Grade	Primary ↔ Ground		1MOPP (1500VAC)		
	Primary ↔ Secondary		2MOPP (4000VAC)		
	Secondary ↔ Ground		1MOPP(1500VAC)		
Leakage Current	Earth Leakage Current			300	uA
	Touch Current			100	
PHYSICAL SPECIFICATIONS					
Weight			9.77oz (277g)		
Dimensions (L x W x H)			5in x 3in x 1.07in (127mm x 76.2mm x 27.1mm)		
SAFETY CHARACTERISTICS					
Safety Approvals		UL/CSA/IEC60905-1, 2 nd Edition ⁽⁶⁾ ANSI/AMMI/CSA/IEC60601-1, 3 rd Edition			
EMI		EN55022 "B", EN61000-3-3			
Harmonics		EN61000-3-2			
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

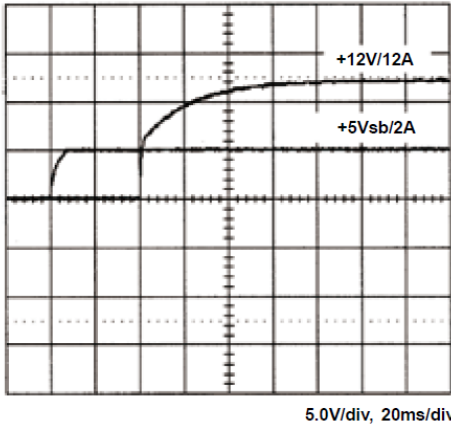
1. Most power supplies will create audible burst sound at light load, if the application wants to meet input power <0.5W at standby mode. PSSNP-P15x-S is for ITE & Medical applications which require standby mode.
2. Standby Power consumption with system: For computers and displays, energy star in U.S. and ErP Regulation in Europe require the input power should be less than 0.5W at standby mode.
3. Output Load: 154W for convection cooling
4. Peak Load Duration: Peak 220W can last for 5 sec.
5. EMI Grounding: If there is a metal sheet under the power supply, connect the EMI ground to that metal sheet.
6. This product is Listed to applicable standards and requirements by UL.

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

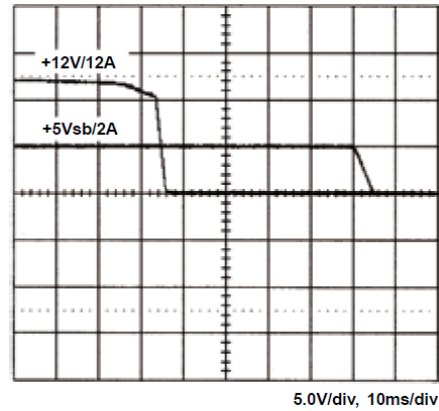
PERFORMANCE GRAPHS



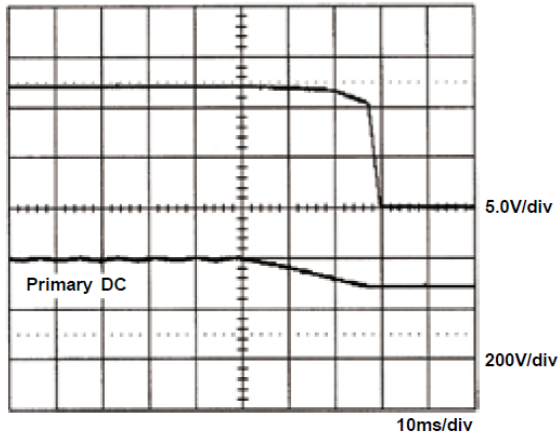
Output Turn On Wave Form



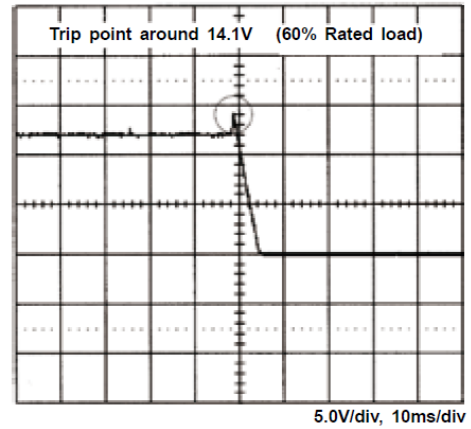
Output Turn Off Wave Form



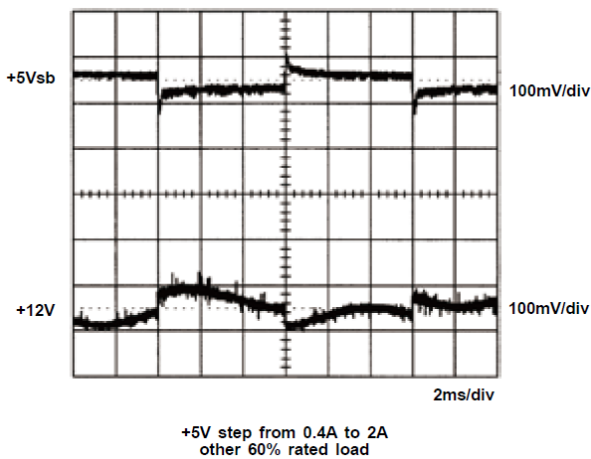
Hold-Up Time



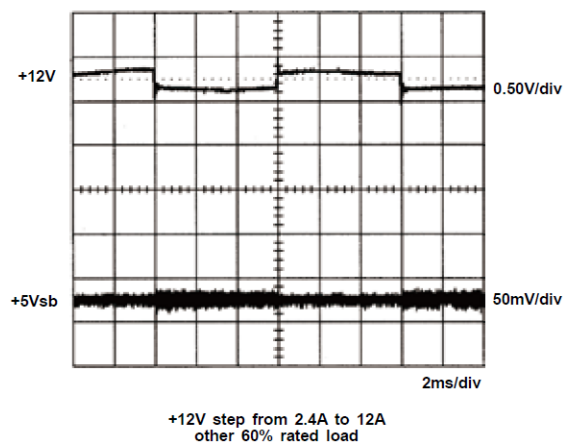
Over Voltage Protection



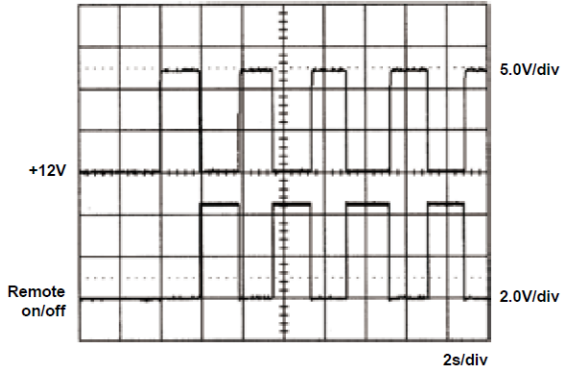
+5VSB Step Response



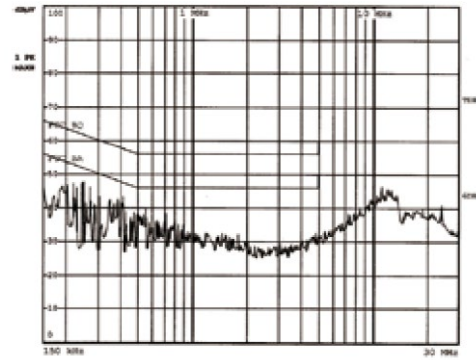
+12V Step Response



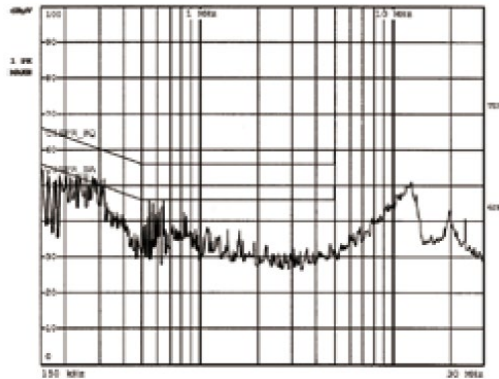
Remote On/Off



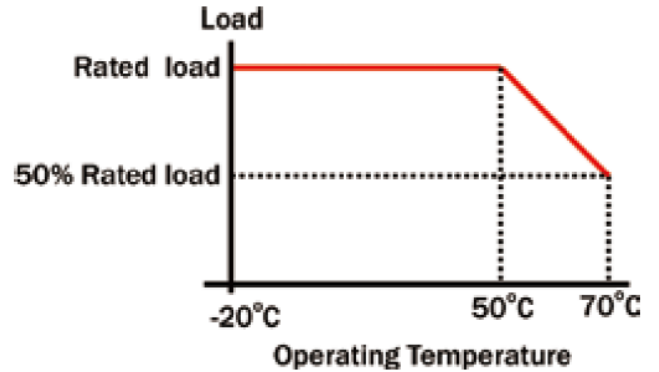
FCC B



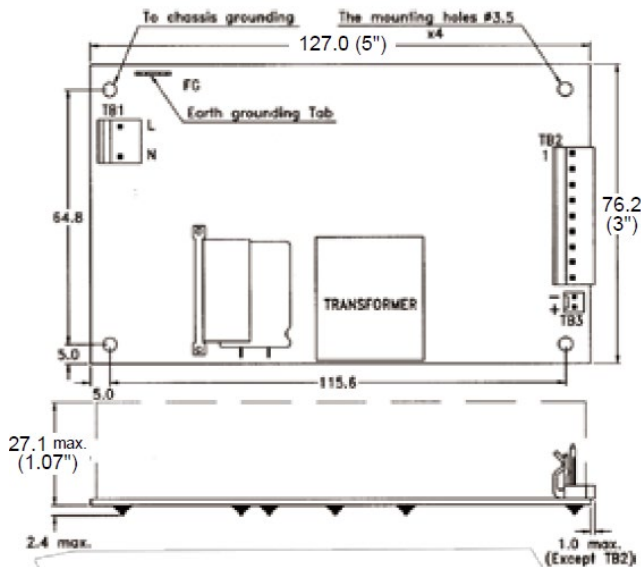
EN55011 B



Power Derating Curve



MECHANICAL DRAWINGS



Notes:

1. Mounting Hole: 64.8mm x 115.6mm
2. Connectors: AC Input: Molex 5277-02A or equivalent
DC Output: Molex 5273-09A or equivalent
3. Output Pin Assignment:

1	2	3	4	5	6	7	8	9
+5Vsb	Remote	+5V RTN	Vo	Vo	Vo	RTN	RTN	RTN

TB3:

1	2
+12V	RTN

4. Packing:

Net Weight: 277g approx./unit
Gross Weight: 17.5kg approx./carton, 48 units/carton
Carton size: 397mm x 339mm x 327mm

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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