



Size: 3.98in x 2in x 1.10in (101.6mm x 50.8mm x 28mm)

FEATURES

- Input Voltage Range from 90-264VAC
- Single, Dual, and Triple Output Models
- High Efficiency
- Single Side PCB for Low Assembly Cost
- Over Load, Over Voltage, and Short Circuit Protection
- Useful in Medical and Dental Applications and ITE Applications
- UL/CSA/EN 60950-1, 2nd Edition and ANSI/AAMI/CSA/EN 60601-1 3rd Edition + A1 Safety Approvals

DESCRIPTION

The PSSNP-Y04 series of AC/DC open frame power supplies offers rated output power of 45 watts and a peak output power of 60 watts in a 3.98" x 2" x 1.10" package. This series consists of singe, dual, and triple output models with a wide input voltage range from 90-264VAC. Each model in this series has high efficiency, single side PCB, as well as over load, over voltage, and short circuit protection. This series has UL/CSA/EN 60950-1 2^{nd} edition and ANSI/AAMI/CSA/EN 60601-1 3^{rd} edition +A1 safety approvals.

MODEL SELECTION TABLE												
Single Output												
Model Number	Input Voltage Range	Output		Output	Output Current		Ripple &	Voltage	Output Power		Land Danidation	□fficion ov
woder Number		Voltage	Min	Rated	Max	Peak	Noise	Accuracy ⁽³⁾	Rated	Peak	Load Regulation	Efficiency
PSSNP-Y046		+5V	0A	7A	-	10A	1%	+4.9~+5.05V	45W	60W	±1%	77%
PSSNP-Y047-1		+12V	0A	3.3A	-	5A	1%	+11.88~+12.12V	45W	60W	±1%	81%
PSSNP-Y048-1	90-264VAC	+15V	0A	3A	-	4A	1%	+14.85~15.15V	45W	60W	±1%	81%
PSSNP-Y049-1		+24V	0A	1.9A	-	2.5A	1%	+23.75~24.24V	45W	60W	±1%	83%
PSSNP-Y04T		+48V	0A	1A	-	1.35A	1%	+47.6~48.4V	45W	60W	±1%	85%

MODEL SELECTION TABLE												
Dual Output												
Model Number	Input Voltage Range	Output		Output	ut Current		Ripple &	Voltage	Output Power		Load Degulation	Efficiency
Model Number		Voltage	Min	Rated	Max	Peak	Noise	Accuracy ⁽³⁾	ıracy ⁽³⁾ Rated Peak		Load Regulation	Efficiency
PSSNP-Y043		+5V	0A	3A	4A	5A	1%	+4.9~+5.1V	45W 60W	±3%	80%	
		+12V	0A	2.3A	3.3A	4A	1%	+11.4~+12.6V		±3%	00 /0	
PSSNP-Y047		+12V	0A	3.3A	_	5A	1%	+11.88~+12.12V	45W	60W	±1%	80%
1 00111 - 1047	90-264VAC	+5V	0A	0.5A	_		1%	+4.75V~+5.25V		0000	±1%	00 70
PSSNP-Y048	90-204 VAC	+15V	0A	2.6A		4A	1%	+14.85~+15.15V	45W 60W	±1%	80%	
		+5V	0A	0.5A	_		1%	+4.75~+5.25V		0000	±1%	00%
PSSNP-Y049		+24V	0A	1.7A	-	2.5A	1%	+23.75~+24.24V	45W	60W	±1%	920/
		+5V	0A	0.5A			1%	+4.75~+5.25A	4500	0000	±1%	82%

MODEL SELECTION TABLE												
Triple Output												
Model Number	Input Voltage Range	Output		Output	Curre	nt	Ripple &	Voltage Accuracy ⁽³⁾	Output Power		Load Population	
Model Number		Voltage	Min	Rated	Max	Peak	Noise		Rated	Peak	Load Regulation	Efficiency
PSSNP-Y041		+5V +12V -12V	0A 0A 0A	3A 2A 0.3A	4A 3A	5A 4A	1% 1% 1%	+4.9~+5.1V +11.4~+12.6V -11.4~-12.6V	45W	60W	±3% ±3% ±5%	80%
PSSNP-Y04F	90-264VAC	+5V +24V +12V	0A 0A 0A	3A 1A 0.3A	4A 1.5A	6A 2.4A	1% 1% 1%	+4.9~+5.05V +22.8~+25.2V +11.4~+12.6V	45W	60W	±3% ±3% ±5%	81%
PSSNP-Y04D ⁽²⁾		+3.3V +5V +12V	0A 0A 0A	4A 3A 0.3A	4A 3A 0.3A	5A 4A	1% 1% 1%	+3.26~+3.33V +4.75~+5.25V +11.40~+12.80V	45W	60W	±3% ±3% ±5%	75%

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ODE OF OATIONS

SPECIFICATIONS										
All specifications	are based on 25°C, Nominal Input Voltage, and Maximum Output Current We reserve the right to change specifications based on technological adv		herwise note	ed.						
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit					
INPUT SPECIFICATIONS	TEST CONSTITIONS		.,,,,	WEX	O i iii					
Input Voltage Range		90		264	VAC					
Input Frequency		47		63	Hz					
	@115VAC, Cold Start at 25°C			30	_					
Inrush Current	@230VAC, Cold Start at 25°C			60	Α					
OUTPUT SPECIFICATIONS										
Output Voltage			See	Table						
Voltage Accuracy			See	Table						
Line Regulation ⁽⁴⁾			±1		%					
Load Regulation ⁽⁵⁾			See	Table						
Output Power See Table										
Output Current										
Ripple & Noise ⁽⁶⁾			1		%					
Hold Up Time ⁽⁷⁾			14		mS					
PROTECTION										
Short Circuit Protection			Automatic	Recovery						
Over Load Protection	Automatic Recov									
Over Voltage Protection			Latc	h Off						
ENVIRONMENTAL SPECIFICATION	S									
Operating Temperature	Derating: 2.5%/°V>50°C	0		70	°C					
Storage Temperature		-40		85	°C					
Cooling			Free Air C	Convection						
GENERAL SPECIFICATIONS										
Efficiency	@Rated load and 115VAC	76		85	%					
Earth Leakage Current				300	uA					
PHYSICAL SPECIFICATIONS										
Weight				18oz (127g)						
3.98in x 2in x 1.10in (101.6mm x 50.8mm x 28										
SAFETY CHARACTERISTICS		\.								
Safety Approvals	UL/CSA/EN 60950-1, 2 nd Edition ⁽⁹⁾ ANSI/AAMI/CSA/EN 60601-1 3 rd Edition + A1									
EMI	ECC "B"									
EMS	EN61000-4-2, 3, 4, 5, 6, 8, 11									
LING										

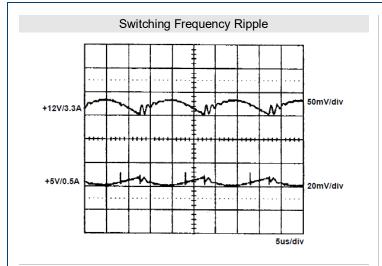
NOTES

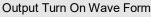
- 1. At peak load, output can last for 8 seconds without shutting down.
- 2. The maximum combined load of PSSNP-Y04D for +3.3V & +5V is 28W.
- 3. At factory, all outputs in 60% rated load condition, each output is checked to be within the accuracy range while the main output is set within specified accuracy range at rated load.
- 4. Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- 5. Load regulation is defined by changing ±40% of measured output load from 60% rated load at another output set to 60% rated load.
- 6. Ripple & Noise is measured by using 15MHz bandwidth limited oscilloscope and terminated each output with 0.47uF capacitor at rated load and nominal line.
- 7. Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to regulation limit at rated load and nominal line.
- 8. PSSNP-Y04x is for both ITE and medical applications.
- 9. This product is Listed to applicable standards and requirements by UL.

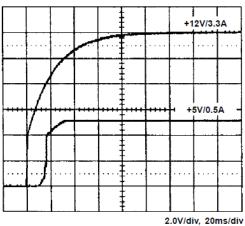
*Due to advances in technology, specifications subject to change without notice.



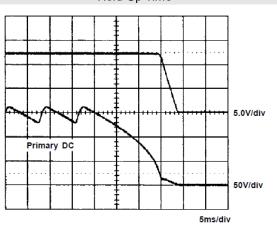
DERATING CURVES -

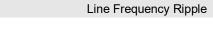


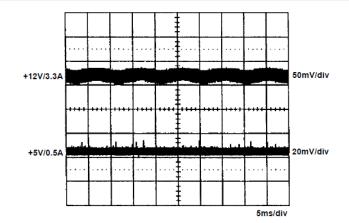




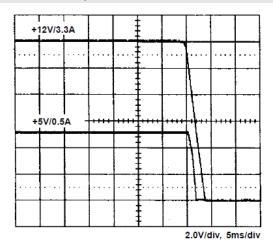
Hold-Up Time



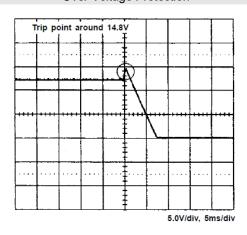




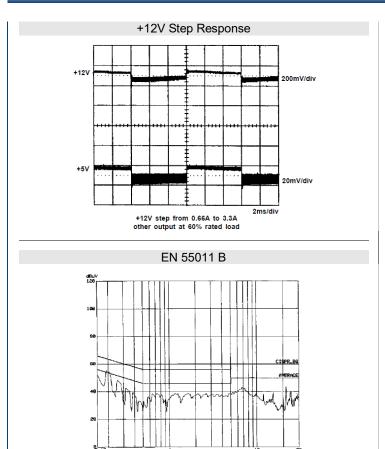
Output Turn On Wave Form

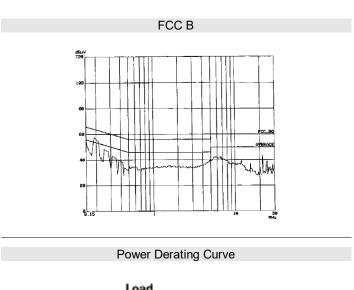


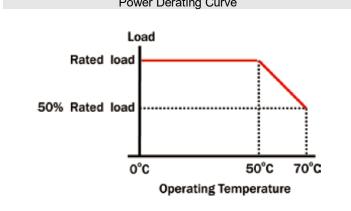
Over Voltage Protection



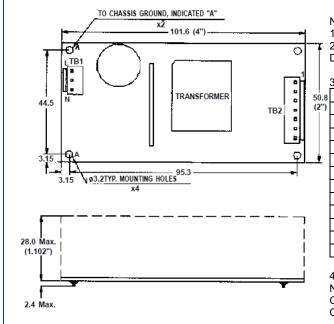








MECHANICAL DRAWINGS -



Notes:

- 1. Mounting Hole: 44.5mm x 95.3mm
- 2. Connectors: AC Input: JST B2P3-VH or Equivalent
- DC Output: JST B4P-VH or Equivalent for Single Output
 - JST B6P-VH or Equivalent for Multiple Outputs
- 3. Output Pin Assignment:

8 PIN No.	1	2	3	4	5	6
PSSNP-Y041	+5V	+5V	GND	GND	+12V	-12V
PSSNP-Y043	+5V	+5V	GND	GND	+12V	NC
PSSNP-Y04F	+5V	+5V	GND	GND	+24V	+12V
PSSNP-Y046	+5V	+5V	GND	GND		
PSSNP-Y047	+12V	+12V	GND	GND	+5V	NC
PSSNP-Y047-1	+12V	+12V	GND	GND		
PSSNP-Y048	+15V	+15V	GND	GND	+5V	NC
PSSNP-Y048-1	+15V	+15V	GND	GND		
PSSNP-Y049	+24V	+24V	GND	GND	+5V	NC
PSSNP-Y049-1	+24V	+24V	GND	GND		
PSSNP-Y04T	+48V	+48V	GND	GND		
PSSNP-Y04D	+3.3V	+3.3V	GND	GND	+5V	+12V

4. Packing:

Net weight: Approx. 127g/unit

Gross Weight: Approx. 12.6kg/carton, 80units/carton

Carton Size: 382mm x 374mm x 277mm



PSSNP-Y04 SERIES
Rated 45 Watts
Peak 60 Watts
AC/DC Medical/ITE Open Frame Power Supply
Single, Dual, and Triple Output



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.

Contact Wall Industries for further information:

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