



(159mm x 97mm x 30mm)

Size: 6.26in x 4.53in x 1.81in

FEATURES

The PSEW75 series of AC/DC switching power supplies offers up to 76.8 watts of output power in an enclosed 6.26" x 4.53" x 1.81" package. This series consists of single output models with an input voltage range of 85~264VAC or 120~370VDC as this series accepts AC or DC input. Each model features built-in active PFC function, high performance and meet CISPR32/EN55032 Class B without extra components, as well as short circuit, over current, over voltage, and over temperature protection. It also has safety according to IEC/EN/UL62368, EN60335, EN61558, and GB4943.

MODEL SELECTION TABLE								
Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current	Output Voltage Adjustable Range	Max. Ripple & Noise	Output Power	Maximum Capacitive Load	Efficiency
PSEW75-05S	85-264VAC (120-370VDC)	5V	15A	4.75-5.5V	120mV	75W	10000µF	82%
PSEW75-12S		12V	6.3A	11.4-13.2V	120mV	75.6W	6000µF	85%
PSEW75-15S		15V	5A	14.3-16.5V	120mV	75W	5000µF	86%
PSEW75-24S		24V	3.2A	22.8-26.4V	120mV	76.8W	1500µF	87%
PSEW75-48S		48V	1.6A	45.6-52.8V	200mV	76.8W	680µF	89%

SPECIFICATIONS

All specifications are based on 25°C, Humidity <75%RH, Nominal Input Voltage, and Rated Output Load unless otherwise noted. We reserve the right to change specifications based on technological advances.

SPECIFICATION	TES	ST CONDITIONS	Min	Тур	Max	Unit		
INPUT SPECIFICATIONS			·					
Innut Valtaga Danga	AC Input	85		264	VAC			
Input Voltage Range	DC Input	120		370	VDC			
Input Voltage Frequency		47		63	Hz			
Input Current	115VAC			1.0	A			
Input Current	230VAC			0.6				
Inrush Current	Cold Start	115VAC		20		— A		
Infush Current	Cold Start	230VAC		35				
Power Factor	Full Load	115VAC		0.98				
Power Factor	Full Load	230VAC		0.93				
Hot Plug	Unavailable							
Leakage Current	240VAC/60Hz			2	mA			
OUTPUT SPECIFICATIONS								
Output Voltage		See Table						
Voltage Accuracy	Full Load Range		±2		%			
Line Regulation	Rated Load			±0.5		%		
Load Regulation	0% - 100%	5V		±1		%		
	0% - 100%	12V/15V/24V/48V		±0.5		70		
Output Voltage Adjustable Range		See Table						
Output Power			See Table					
Output Current			See Table					
Minimum Load	Full Load Range		0			%		
Maximum Capacitive Load		See Table						
Ripple & Noise ⁽²⁾	20MHz bandwidth	5V/12V/15V/24V			120	mV		
	(peak-to-peak value)	48V			200	1117		
Hold-Up Time	230VAC	16			ms			
Start-Up Delay Time					3	S		
Temperature Coefficient		±0.03		%/°C				

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SPECIFICATIONS										
All specifications ar	e based on 25°C, Humidity <7 We reserve the right to c						ess otherwis	se noted.		
SPECIFICATION		EST CONE				Min	Тур	Max	Unit	
REMOTE CONTROL									T	
Power ON						0		0.8	VDC	
Power OFF						4		10	VDC	
PROTECTION Short Circuit Protection	Decovery time <2e ofter the	abort airaui	it diaan	naara		Constant	urrent cont	tinuoua aal	freedourse	
Over Current Protection	Self-Recovery	ery time <3s after the short circuit disappears				Constant o	current, cont ≥105	linuous, se	%lo	
	5V						≤7		7010	
	Output Voltage Turn-Off, Re-Power on For Recovery			12V			≤20		v	
Over Voltage Protection				15V			≤25			
5				24V			≤32.4			
	48V						≤60		-	
Over Temperature Protection ⁽³⁾	Over-temperature Protectio							85	- °C	
•	Over-temperature Protectio	n Deactivati	ion			50				
ENVIRONMENTAL SPECIFICAT	-					1			1	
Operating Temperature	5V					-25		+60	°C	
	others					-25		+70	_	
Storage Temperature	Non Condonaina					-40		+85 95	°C %RH	
Storage Humidity Operating Humidity	Non-Condensing Non-Condensing					20		95	%RH	
	Non-Condensing		_ 25℃	to -20℃		4.0		90	70КП	
	Operating Temperature Der	rating		to +60℃	5V	2.0			%/°C	
Power Derating	Operating Temperature Der	aung		to +00 ℃	Others	2.0			/0/ 0	
Tower Derating	+50 C 10 +70 C				Others	1.33				
	Input Voltage Derating 100VAC-264VAC					0			%/VAC	
MTBF	MIL-HDBK-217F@25°C				300.000			Н		
GENERAL SPECIFICATIONS						000,000				
Efficiency							See 1	Fable		
· · · · ·	Electric Strength Test for 1	nin lookoa	0. 0. UFF 0	nt <10m A	Input - 📥	2000			VAC	
Isolation Test	Electric Strength Test for 1r				Input – Output	4000				
	Electric Strength Test for 1min., leakage current <5mA Output - 🛓					500				
	Environment Temperature: 25±5°C, Input - =					100				
Insulation Resistance	Relative Humidity: <95%RH, non-condensing					100			MΩ	
	Testing Voltage: 500VDC Output - 🚽					100				
PHYSICAL SPECIFICATIONS							0.04160	(200 a)		
Weight							0.84lbs (380g) 6.26in x 4.53in x 1.81in			
Dimensions (L x W x H)						(159mm x 97mm x 30mm)				
Case Material						Metal (AL1100, SGCC)				
Cooling							Free air c			
SAFETY CHARACTERISTICS						1				
Safety Standard ⁽⁴⁾	Meet IEC/EN/UL62368/EN6						/EN60335/I	EN61558		
,						/GB4943				
Safety Certification						IEC/EN62368/EN60335/EN61558/GB4943				
Safety Class	05								Class	
Emissions	CE CISPR32/EN55032 RE CISPR32/EN55032					Class E Class E				
Emissions	Harmonic Current IEC/EN61000-3-2					Class				
	ESD IEC/EN 61000-3-2 Contact ±6KV/Air ±8KV					Perf. Criteria E				
	RS IEC/EN 61000-4-3 10V/m					Perf. Criteria A				
		IEC/EN 61000-4-3 100/11				Perf. Criteria E				
Immunity		Lino to Ling			±1KV / Line to	L1KV / Line to				
-	Surge IEC/EN 61000-4-5 Ground ±2KV				Perf. Criter			n. Unteria E		
	CS IEC/EN 61000-4-6 10 Vr.m.s								rf. Criteria A	
	DIP IEC/EN 61000-4-11 0%, 70%						Pe	rf. Criteria B		

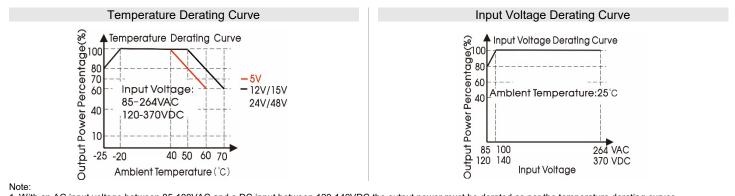
Rev A



NOTES

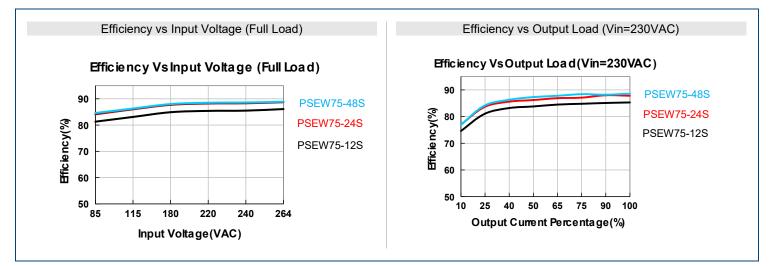
- 1. Add "C" to model number to indicate terminal with protective cover, and "Q" to model number for conformal coating.
- 2. Tip and barrel method is used for ripple and noise test. Output parallel 47uF electrolytic capacitor and 0.1uF ceramic capacitor, contact factory for more information.
- 3. Over-Temperature Protection needs to be tested under rated full load conditions.
- 4. This product is Listed to applicable standards and requirements by UL.
- 5. The power supply is considered a component which will be installed into terminal equipment. All EMC tests should be confirmed with final equipment. Consult factory for more information.
- 6. In order to improve the efficiency at high input voltage, there will be audible noise generated, but does not affect product performance and reliability.
- 7. Product customization service is available, please contact factory for more details.
- 8. Out case needs to be connected to PE (\pm) of system when terminal equipment in operating.
- 9. Products should be classified according to ISO14001 and related environmental laws and regulations and should be handled by qualified units.
- Due to advances in technology, specifications subject to change without notice.

DERATING CURVES -



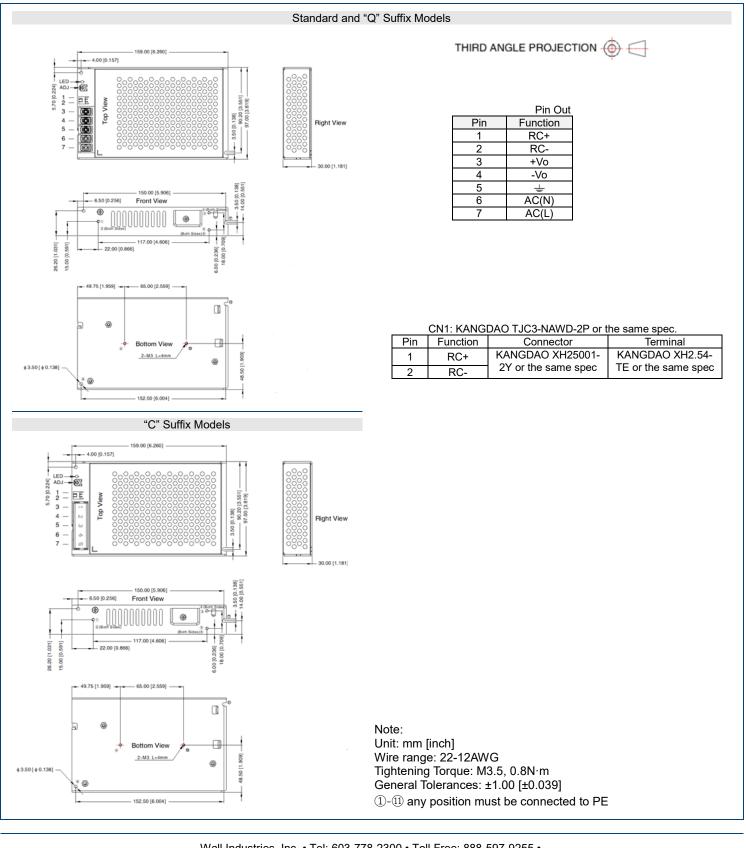
1. With an AC input voltage between 85-100VAC and a DC input between 120-140VDC the output power must be derated as per the temperature derating curves. 2. This product is suitable for applications using forced air cooling: for applications in closed environment, please contact factory.

EFFICIENCY GRAPHS





MECHANICAL DRAWINGS



Rev A

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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.

Rev A

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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