

PSAVC SERIES 15 Watts AC/DC PCB Mount Power Supply Single Output



FEATURES

Rev B

- AC Input Voltage Range of 90-264VAC or 120-370VDC
- Switching Power Module for PCB Mount
- Fully Encapsulated Plastic Case
- No-Load Watts < 0.1W
- High Efficiency up to 85%
- Isolation Class II
- Over Power, Over Voltage, and Short Circuit Protection
- CE, UL, cUL Safety Approvals

DESCRIPTION

The PSAVC series of AC/DC PCB mount power supplies offers up to 15 watts of output power in a compact 1.62" x 1.07" x 0.75" package. This series consists of single output models with an input voltage range of 90-264VAC. Each model in this series has over power, over voltage, and short circuit protection and CE, UL, cUL safety approvals. Please call factory for order details.

Min

Тур

Max

Unit

MODEL SELECTION TABLE									
Model Number	Input Voltage Range	Output Voltage	Output Min Load	Current Max Load	Ripple & Noise	No Load Input Current	Output Power	Maximum Capacitive Load	Efficiency
PSAVC-5S		5V	0%	2700mA	100mVp-p		13.5W	7000uF	80%
PSAVC-12S	90-264VAC or 120-370VDC	12V	0%	1250mA	120mVp-p	<0.1W	15W	1500uF	84%
PSAVC-15S		15V	0%	1000mA	150mVp-p		15W	1000uF	84%
PSAVC-24S		24V	0%	625mA	240mVp-p		15W	470uF	85%

TEST CONDITIONS

SPECIFICATIONS All specifications are based on 25°C After Warm up, Normal Input Voltage, and Full Load unless otherwise noted. We reserve the right to change specifications based on technological advances SPECIFICATION

INPUT SPECIFICATIONS					_	
Input Voltage Range ⁽¹⁾		90		264	VAC	
		120		370	VDC	
Input Frequency		47		63	Hz	
Input Current	@115VAC, Full Load			340	mA	
	@230VAC, Full Load			220	IIIA	
Inrush Current	@115VAC, Cold Start			25	A	
	@230VAC, Cold Start			45	A	
Leakage Current	@<240VAC			0.25	mA	
External Fuse (Mandatory)	Slow Blow Type			2	A	
OUTPUT SPECIFICATIONS						
Output Voltage			See	Table		
Voltage Accuracy			±2		%	
Line Regulation	LL-HL		±0.5		%	
Load Regulation	10-100%		±1		%	
Output Power			See Table			
Output Current			See Table			
Minimum Load		0			%	
Maximum Capacitive Load			See	Table		
Ripple & Noise ⁽²⁾			See Table			
Hold-Up Time	@230VAC	35			Ms	
Temperature Coefficient		-0.05		+0.05	%/°C	
PROTECTION						
Short Circuit Protection		Hiccup Mo	de, Indefinite	e (Automatio	Recovery)	
Over Power Protection		Hiccup	Technique, J	Automatic R	ecovery	
Over Voltage Protection				de Clamp		
ENVIRONMENTAL SPECIFICATION	ONS					
Operating Case Temperature		-40		+70	°C	
Storage Temperature		-40		+85	°C	
Humidity			95		%RH	
MTBF	@25°C (MIL-HDBK0217F)	450,000			Hours	



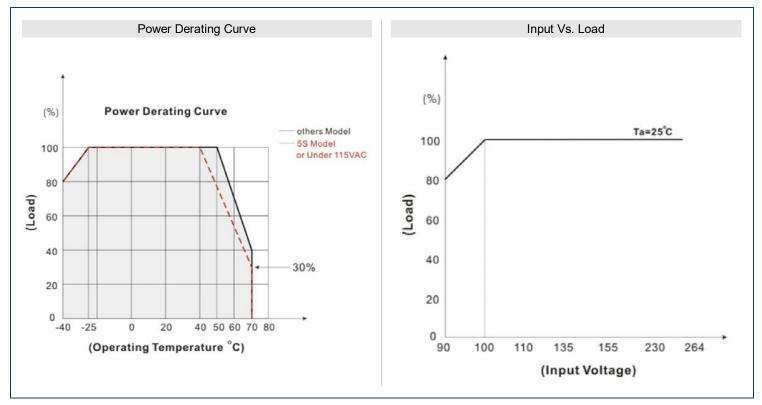
SPECIFICATIONS					
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	We reserve the right to change specifications based on techno	_	_		
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit
GENERAL SPECIFICATIONS					
Efficiency			See Table		
Isolation	Input-Output VAC		4000		VAC
PHYSICAL SPECIFICATIONS					
Weight			1.41oz (40g)		
			1.62in x 1.07in x 0.75in		
Dimensions (L x W x H)		(4	(41.2mm x 27.2mm x 19.1mm)		
Case Material		Plastic	Plastic Resin (Flammability to UL 94V-0)		
Cooling			Free Air Convection		
SAFETY CHARACTERISTICS					
Safety Approvals	CE, U	JL, cUL ⁽⁷⁾			
EMI	Conducted & Radiated Emission; EN55022	· .			Class I
EMS	Noise Immunity; EN55024				

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NOTES

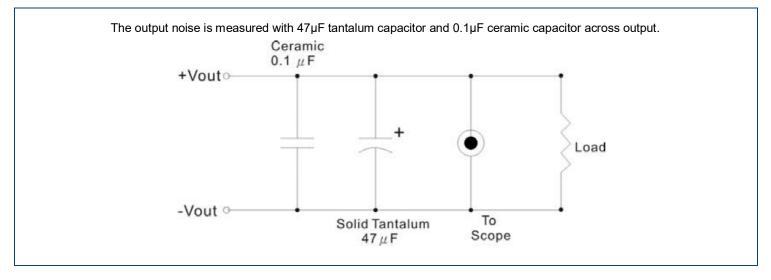
- 1. N Connect +Vin; L Connect –Vin
- 2. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
- 3. It's necessary Varistor 14S471K at L/N input side in parallel.
- 4. It's necessary $10R/15\phi$ thermistor at L input side in series connection.
- 5. Safety approvals cover frequency 47-63Hz.
- 6. Natural convection is about 20LFM but is not equal to still air (0 LFM)
- 7. This product is Listed to applicable standards and requirements by UL.
- *Due to advances in technology, specifications subject to change without notice.

DERATING CURVES ·



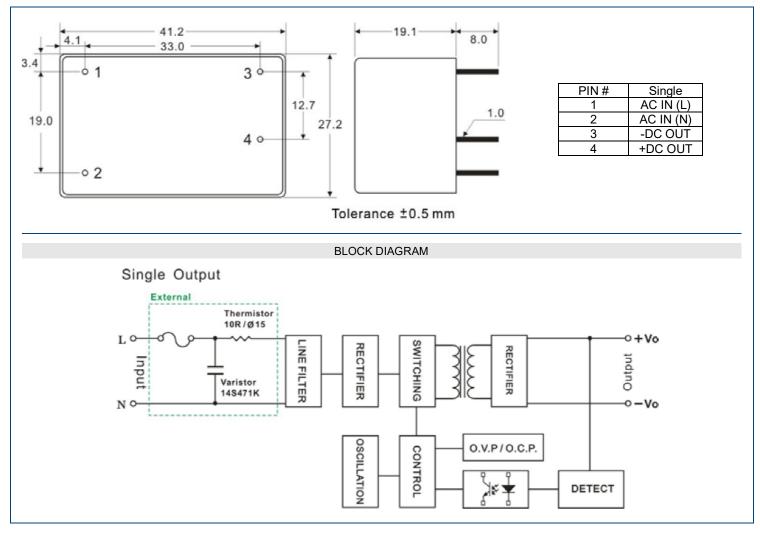


OUTPUT NOISE



Rev B

MECHANICAL DRAWINGS







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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