





Size: 1in x 1in x 0.63in (25.4mm x 25.4mm x 16.1mm)

FEATURES

- Universal Input Voltage Range of 90~264VAC
- High Efficiency
- Fully Encapsulated Plastic Case
- Compact Package
- Short Circuit, Over Load, and Over Voltage Protection
- RoHS Compliant
- Design refers to UL/IEC/EN 60950-1, and UL/IEC/EN 62368-1

DESCRIPTION

The PSSAC5 series of AC/DC converters offers 5 watts of output power in very compact 1" x 1" x 0.63" package. This series consists of single output models with a universal input voltage range of 90~264VAC. Each model in this series features a fully encapsulated plastic case, high efficiency, as well as short circuit, over load, and over voltage protection. This series is RoHS compliant and the design refers to UL/IEC/EN 60950-1, and UL/IEC/EN 62368-1 safety standards.

MODEL SELECTION TABLE									
Model Number	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise	Maximum Capacitive Load	Efficiency	Output Power	
			Min Load	Max Load	Nippie & Noise	Maximum Capacitive Load	Efficiency	Output Fower	
PSSAC5-S033		3.3VDC	0%	1515mA	60mV	2200µF	73%	5 Watts	
PSSAC5-S05	90~264VAC	5VDC	0%	1000mA	60mV	1000µF	80%		
PSSAC5-S09		9VDC	0%	555mA	90mV	300μF	81%		
PSSAC5-S12		12VDC	0%	416mA	120mV	1200µF	81%		
PSSAC5-S15		15VDC	0%	333mA	150mV	100µF	82%		
PSSAC5-S24		24VDC	0%	208mA	240mV	43µF	82%		
PSSAC5-S48		48VDC	0%	104mA	480mV	10μF	84%		

SPECIFICATIONS									
All specifica		ninal Input Voltage, and Rated Output Curre		erwise noted.					
SPECIFICATION		ange specifications based on technological TEST CONDITIONS	Min	Тур	Max	Unit			
INPUT SPECIFICATIONS		TEST SCRETTIONS	171111	Typ	IVIGA	OTHE			
Rated Input Voltage	Vo, lo nom			100~240		VAC			
	Vo, Io nom	AC In	90		264	VAC			
Voltage Range		DC In	120		370	VDC			
Line Frequency	Vi nom, lo nom	Vi nom, lo nom		50	63	Hz			
. ,	lo nom	Vi: 115VAC			5	1			
Inrush Current		Vi: 230VAC			10	A			
Inrush Current		PSSAC5-S12A 115VAC			10				
		230VAC			20				
Input Current	PSSAC5-S12A, Vo, Io r	PSSAC5-S12A, Vo, Io nom			0.15	Α			
Input Fuse	VDE/UL/CCC	VDE/UL/CCC			FUSE 2.5A/250V (Slow Blow)				
OUTPUT SPECIFICATIONS									
Output Voltage					See Table				
Voltage Accuracy	3.3VDC & 5VDC Models			±3 ±2	%				
	0	Other Models							
Line Regulation	e Regulation Io nom, Vi minVi max				±1.0	%			
Load Regulation					±1.0	%			
Output Power				See Table					
Output Current				See Table					
Minimum Load			0	_		%			
Maximum Capacitive Load				See T					
Ripple & Noise ⁽¹⁾				See T	able				
Transient Recovery Time	Vi nom, lo nom = $\leftarrow \rightarrow 0.5$ lo nom			1000		uS			
PROTECTION									
Short Circuit Protection		after fault condition is removed							
Over Load Protection	Recovers automatically after fault condition is removed			Above 110% Rated Output Power					
Over Voltage Protection	er Voltage Protection Zener diode clamp ⁽²⁾			120%-150% Rated Output Voltage					

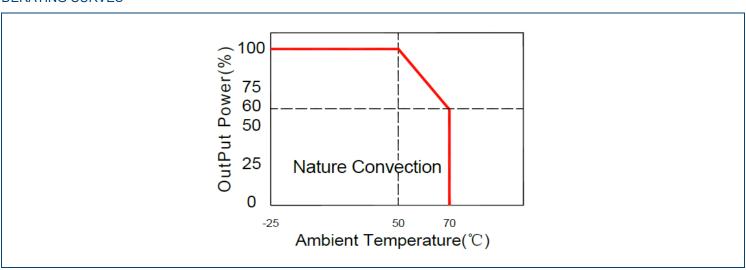


SPECIFICATIONS								
All specificatio		t Voltage, and Rated Output Current ւ		rwise noted				
	We reserve the right to change spe	cifications based on technological adv		_				
SPECIFICATION		ONDITIONS	Min	Тур	Max	Unit		
ENVIRONMENTAL SPECIFICATION								
Operating Temperature	See Derating Graph	-25 -40		+70	°C			
Storage Temperature		Non Operational			+85	°C		
Relative Humidity	Vi nom, lo nom	Vi nom, lo nom			95	%RH		
Cooling	Free Air Convectio							
MTBF	MILI-HDBK-217F at 25°C		2600			kHours		
GENERAL SPECIFICATIONS								
Efficiency				See	Table			
Switching Frequency	Vi nom, lo nom	Vi nom, lo nom				KHz		
Isolation Voltage	Input/Output	3KVac/5mA/5Secs						
Isolation Resistance	Input/Output @500VDC		100			ΜΩ		
PHYSICAL SPECIFICATIONS								
Dimensions (L x W x H)				1in x 1in x 0.63in				
Differsions (E X VV X II)				(25.4mm x 25.4mm x 16.1mm)				
Weight					0.71oz (20g)			
De elección o	Outer Carton Unit	490pcs/box						
Packaging	Weight	11.7kg/carton						
SAFETY CHARACTERISTICS								
	PSSAC5-S12A			UL62368-1, IEC623658-				
Safety Standards	Other models			Design refers to UL/IEC/EN 60950-1,				
	Other models			UL/IEC/EN 6	EN 62368-1			
EMI Conduction & Radiation	PSSAC5-S12A	2 Class B						
Livii Conduction & Nadiation	Other models	Class B						
EMS Immunity Design refers to EN61000								

NOTES

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

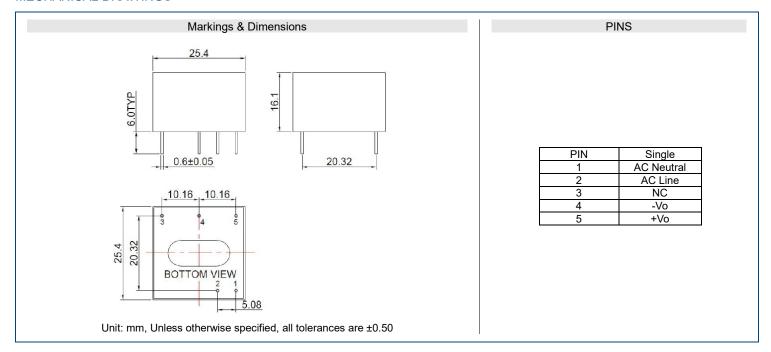
DERATING CURVES :



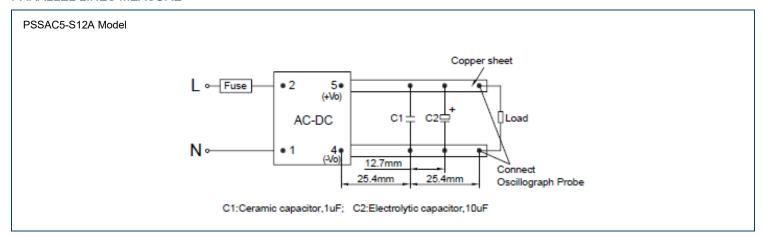
^{1.} Ripple & Noise is measured by using 20MHz bandwidth, measured with a 10uF paralleled with a high-frequency 0.47uf capacitor across each output by full load.



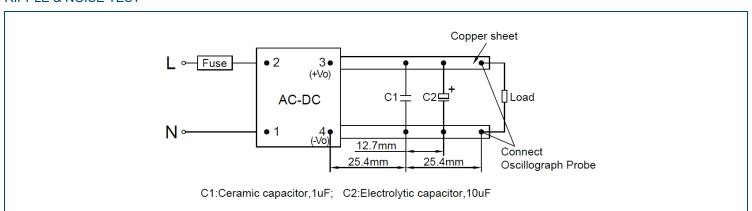
MECHANICAL DRAWINGS



PARALLEL LINES MEASURE -



RIPPLE & NOISE TEST -





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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