

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				
PSSAC5-S033	90~264VAC	3.3VDC	0%	1515mA	60mV	2200µF	73%	5 Watts
PSSAC5-S05		5VDC	0%	1000mA	60mV	1000µF	80%	
PSSAC5-S09		9VDC	0%	555mA	90mV	300µF	81%	
PSSAC5-S12		12VDC	0%	416mA	120mV	160µF	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 specifications are based on 25°C, Nominal Input Voltage, and Rated 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					
Rated Input Voltage	Vo, Io nom		100~240		VAC
Voltage Range	Vo, Io nom	AC In	90	264	VAC
		DC In	120	370	VDC
Line Frequency	Vi nom, Io nom	47	50	63	Hz
Inrush Current	Io nom	Vi: 115VAC		5	A
		Vi: 230VAC		10	
Input Fuse	VDE/UL/CCC	FUSE 2.5A/250V (Slow Blow)			
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Accuracy	3.3VDC & 5VDC Models			±3	%
	Other Models			±2	%
Line Regulation	Io nom, Vi min...Vi max			±1.0	%
Load Regulation				±1.0	%
Output Power		See Table			
Output Current		See Table			
Minimum Load		0			%
Maximum Capacitive Load		See Table			
Ripple & Noise ⁽¹⁾		See Table			
Transient Recovery Time	Vi nom, Io nom = ← → 0.5 Io nom		1000		µS
PROTECTION					
Short Circuit Protection	Recovers automatically after fault condition is removed				
Over Load Protection	Recovers automatically after fault condition is removed				
Over Voltage Protection	Zener diode clamp ⁽²⁾	Above 110% Rated Output Power 120%-150% Rated Output Voltage			
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	See Derating Graph	-25		+70	°C
Storage Temperature	Non Operational	-40		+85	°C
Relative Humidity	Vi nom, Io nom			95	%RH
Cooling		Free Air Convection			

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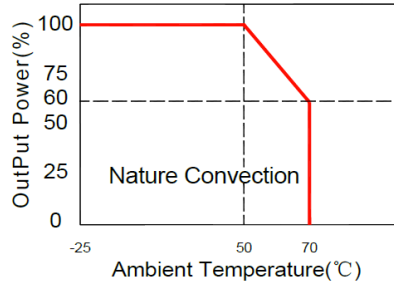
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Switching Frequency	Vi nom, Io nom		65		KHz
Isolation Voltage	Input/Output	3kVac/5mA/5Secs			
Isolation Resistance	Input/Output @500VDC	100			MΩ
PHYSICAL SPECIFICATIONS					
Dimensions (L x W x H)		1in x 1in x 0.63in (25.4mm x 25.4mm x 16.1mm)			
Weight		0.71oz (20g)			
Packaging	Outer Carton Unit	490pcs/box			
	Weight	11.7kg/carton			
SAFETY CHARACTERISTICS					
Safety Standards ^(*)	Design refers to UL/IEC/EN 60950-1, UL/IEC/EN 62368-1				
EMI Conduction & Radiation ^(*)	Design refers to EN55022				Class B
EMS Immunity	Design refers to EN61000				

NOTES

- 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.

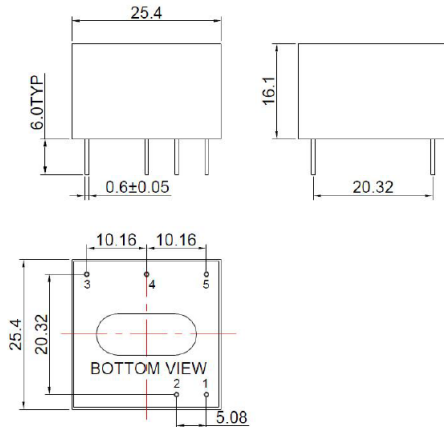
**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVES



MECHANICAL DRAWINGS

Markings & Dimensions

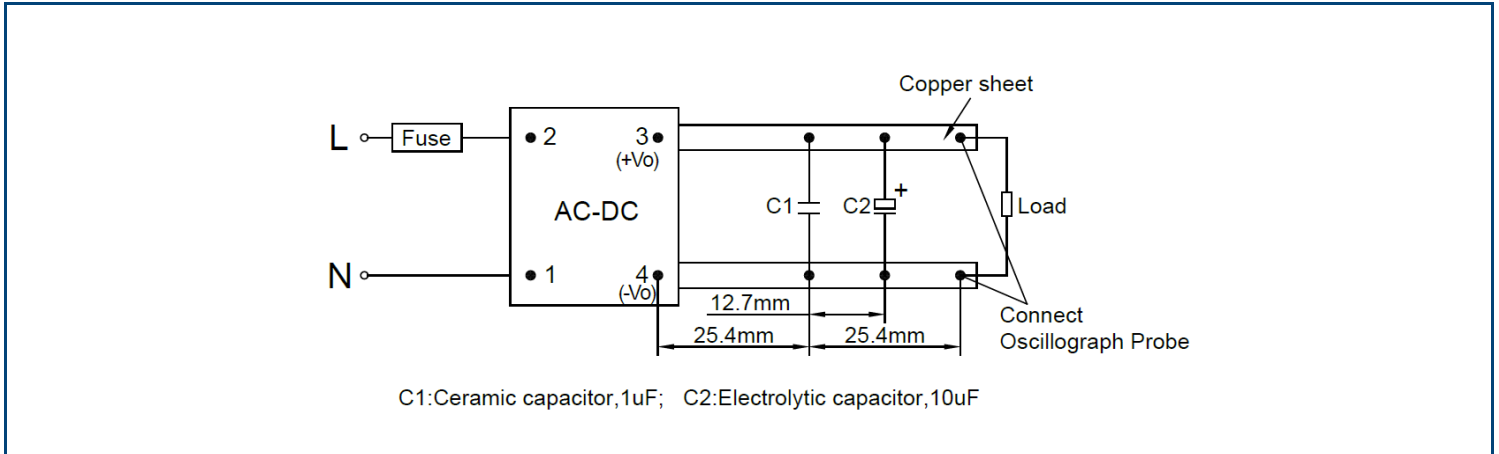


Unit: mm, Unless otherwise specified, all tolerances are ±0.50

PINS

PIN	Single
1	AC Neutral
2	AC Line
3	NC
4	-Vo
5	+Vo

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.

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