



Size: 1.46in x 1.08in x 0.79in (37mm x 27.5mm x 20mm)

SPECIFICATIONS

FEATURES

- Universal Input Voltage Range of 90~264VAC or 120~370VDC
- Switching Power Module for PCB Mount Fully Encapsulated Plastic Case
- Low Ripple & Noise
- Isolation Class II

- Short Circuit, Over Voltage, and Over **Power Protection**
- High Efficiency
- CE, CB, and UL Safety Approvals

DESCRIPTION

The PSAOD10 series of AC/DC ITE/Household power modules offers up to 10 watts of output power in small 1.46" x 1.08" x 0.79" PCB mountable package. This series consists of single output models with a universal input voltage range of 90~264VAC or 120~370VDC. Each model in this series features low ripple & noise, a fully encapsulated plastic case, high efficiency, as well as short circuit, over voltage, and over power protection. This series is isolation class II and has CE, CB, and UL safety approvals. Please contact factory for order information.

MODEL SELECTION TABLE								
Model Number	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise ⁽²⁾	Maximum Capacitive Load	Efficiency	Output Power	
PSAOD10-5S	90~264VAC (120~370VDC)	5VDC	2000mA	<150mVp-p	3,500uF	80%		
PSAOD10-12S		12VDC	833mA	<150mVp-p	700uF	84%	10W	
PSAOD10-15S		15VDC	667mA	<160mVp-p	390uF	85%		
PSAOD10-24S		24VDC	417mA	1% Vout	180uF	85%		

SPECIFICATIONS									
All specificat		Input Voltage, and Maximum Output age specifications based on technolog		therwise note	ed.				
SPECIFICATION		ST CONDITIONS	Min	Тур	Max	Unit			
INPUT SPECIFICATIONS									
Input Voltage Range ⁽¹⁾			90		264	VAC			
input voltage Kange			120		370	VDC			
Frequency			47		440	Hz			
Input Current	@115VAC, Full Load			230	mA				
input Current	@230VAC, Full Load			140					
Inrush Current	@115VAC			30	A				
Illiusii Cullelii	@230VAC			60					
Leakage Current					0.25	mA			
External Fuse	Mandatory			2A Slow E					
External Varistor	Mandatory	Mandatory			10S471K				
External Thermistor	Recommended			10R/8φ					
OUTPUT SPECIFICATIONS	<u> </u>								
Output Voltage				See ⁻	Table				
Voltage Accuracy				±2		%			
Line Regulation	LL-HL			±0.2		%			
Load Regulation	0-100%	5V & 12V Models		±1		%			
		15V & 24V Models		±0.5					
Output Power									
Output Current				See ⁻	Table				
Minimum Load			0			%			
Maximum Capacitive Load				See ⁻					
Ripple & Noise ⁽²⁾			See Table						
Hold-Up Time	@230VAC		30			mS			
Temperature Coefficient				±0.02		%/°C			
PROTECTION									
Short Circuit Protection				Automatic Recovery					
Over Power Protection Hiccup Technique				Automatic Recovery					
Over Voltage Protection				Zener Dio	de Clamp				



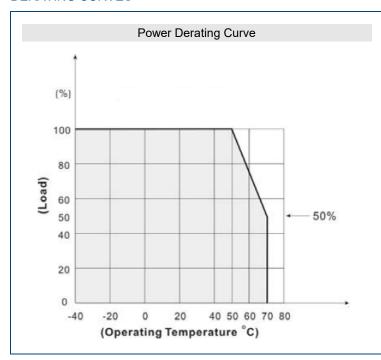
SPECIFICATIONS						
	e based on 25°C, Nominal Input Voltage, and Maximum Output Curre		nerwise note	ed.		
W	e reserve the right to change specifications based on technological ac	dvances.				
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit	
ENVIRONMENTAL SPECIFICATIONS						
Operating Temperature	With derating	-40		+70	°C	
Storage Temperature		-40		+85	°C	
Humidity			95		%RH	
Cooling Method				Free Air Convection		
MTBF	MIL-HDBK-217F @25°C	450,000			Hours	
GENERAL SPECIFICATIONS						
Efficiency	@230VAC	See Table				
Isolation Voltage	Input-Output		3000		VAC	
PHYSICAL SPECIFICATIONS						
Weight		1.23oz (35g)				
Dimensions (L x W x H)	Tolerance 0.018oz (±0.5mm)		1.46in x 1.08in x 0.79in			
Dillieliaidia (E X VV X II)			(37mm x 27.5mm x 20mm)			
Case Material		Plastic Resin (Flammability to UL 94V-0)			_ 94V-0)	
SAFETY CHARACTERISTICS						
	UL/cUL 60905-1 ⁽⁷⁾ & IEC/EN60950-1					
Safety Approvals	TUV IEC/EN60335-1					
	CE					
EMI (Conducted & Radiated Emission)	EN 55032				Class B	
EMS (Noise Immunity)	EN 55024					

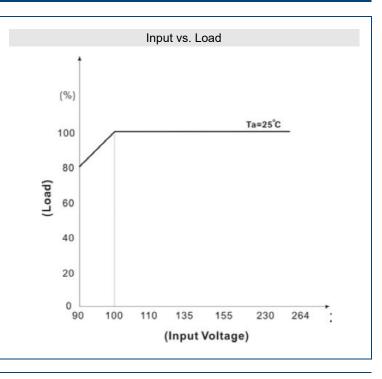
NOTES

- 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 Fuse 250V/2A at L input side in series connection.
- 5. It's recommended $10R/8\phi$ thermistor at L input side in series connection.
- 6. A fuse 250V/2A is directly connected to the input and this fuse is 3.2mm min. away from each polarity.
- 7. This product is Listed to applicable standards and requirements by UL.

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

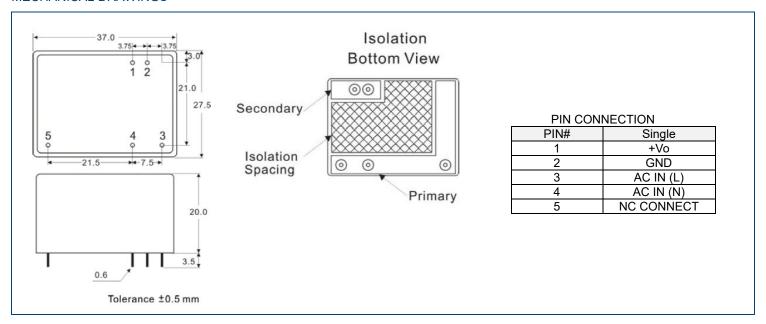
DERATING CURVES -



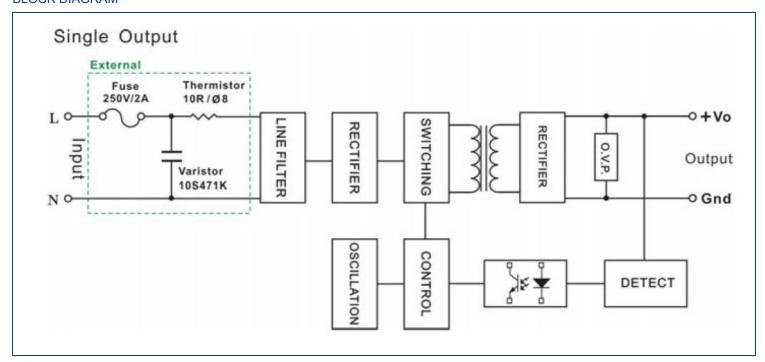




MECHANICAL DRAWINGS



BLOCK DIAGRAM





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:

Phone: ☎(603)778-2300 Toll Free: ☎(888)597-9255 Fax: ☎(603)778-9797

E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833

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