





Size:

1.12 x 1.02 x 0.67 inches 28.5 x 25.8 x 17.0 mm

FEATURES

- RoHS Compliant
- Isolation Class II
- 3000VAC I/O Isolation
- 2 Watts Output Power
- Fully Encapsulated Plastic Case
- < 0.3W No Load Input Power

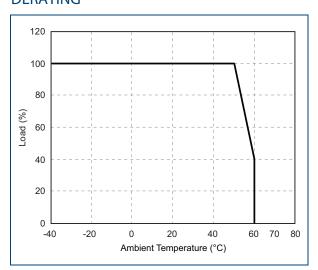
- 3.3V, 5V, 12V, 15V, and 24V Single Output Models
- PCB Mountable Switching Power Supply
- -40°C to +80°C Operating Temperature Range
- Universal Input Voltage Range: 90-305VAC (120-430VDC)
- Short Circuit and Over Voltage Protection
- UL/cUL, CE, and CB Safety Approvals (Pending)

DESCRIPTION

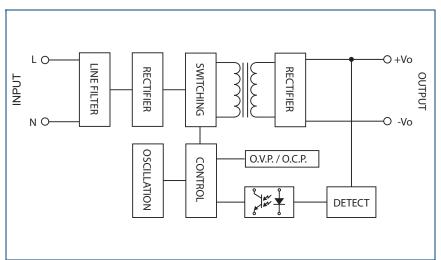
The PSAZC series of AC/DC power supplies provides 2 watts of output power in a $1.12'' \times 1.02'' \times 0.67''$ encapsulated PCB mountable package. This series consists of 3.3,V 5V, 12V, 15V, and 24V single output models with a universal input range of 90-305VAC (120-430VDC). Some features include 3000VAC I/O isolation, -40°C to +80°C operating temperature range, and over power and short circuit protection. All models are RoHS compliant and have UL/cUL, CE, and CB (pending) safety approvals.

MODEL SELECTION TABLE												
Model Number	Input Voltage	Output Voltage	Output Current		Ripple & Noise	Output Power	Efficiency	Maximum				
			Min Load	Max Load	implie a rroise	o dipat i owei	Linelettey	Capacitive Load				
PSAZC-3.3S	90~305 VAC (120~430 VDC)	3.3 VDC	0%	600mA	300mVp-p	2W	66%	7000μF				
PSAZC-5S		5 VDC	0%	400mA	300mVp-p	2W	70%	4000μF				
PSAZC-9S		9 VDC	0%	222mA	300mVp-p	2W	73%	1200µF				
PSAZC-12S		12 VDC	0%	167mA	300mVp-p	2W	73%	500μF				
PSAZC-15S		15 VDC	0%	133mA	300mVp-p	2W	73%	350μF				
PSAZC-24S		24 VDC	0%	83mA	300mVp-p	2W	75%	110μF				

DERATING-



BLOCK DIAGRAM -





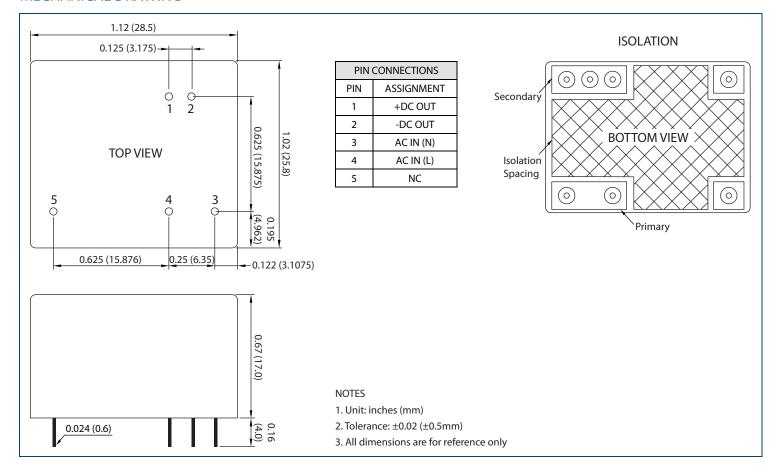
SPECIFICATIONS: PSAZC SERIES

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.

We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit	
INPUT SPECIFICATIONS						
	AC input voltage range	90		305	VAC	
Input Voltage	DC input voltage range	120		430	VDC	
Input Frequency		47		63	Hz	
Innut Current	At 115VAC and full load			75	mA	
Input Current	At 230VAC and full load		55	55		
Inrush Current (<2ms)	At 115VAC and cold start			30	Α	
illiusii Current (<2ms)	At 230VAC and cold start	and cold start		50		
No Load Input Power				0.3 W		
External Fuse (recommended)		3.15A slow blow type			!	
External Varistor			10S ²	471K		
OUTPUT SPECIFICATIONS						
Output Voltage			See Table			
Voltage Accuracy		-6		+6	%	
Line Regulation	Low Line to High Line	-5		+5	%	
Load Regulation	Regulation 10% - 100% full load			+6	%	
Output Power		See Table				
Output Current			See Table			
Minimum Load	rimum Load				%	
Ripple & Noise (20MHz BW)	Measured with 0.1μF and 47μF capacitors in parallel		300		mVp-p	
Max Capacitive Load	At 100~240VAC	See Table				
Hold-up Time	At 230VAC	15			ms	
Temperature Coefficient		-0.02		+0.02	%/°C	
PROTECTION						
Short Circuit Protection		Hiccup mode, indefinite (auto-recovery)				
Over Power Protection		Hiccup technique, auto-recovery			overy	
GENERAL SPECIFICATIONS						
Efficiency	cy At 230VAC		See Table			
Isolation Voltage	Input to Output				VAC	
Leakage Current	< 240VAC			0.25	mA	
ENVIRONMENTAL SPECIFICATIONS						
Operating Temperature	With derating (see derating curve)	-40		+80	°C	
Storage Temperature	Temperature			+85	°C	
Humidity				95	% RH	
Cooling			Free air convection			
MTBF 25°C (MIL-HDBK-217F)		350,000			hours	
PHYSICAL SPECIFICATIONS						
Weight			TE	3D		
Case Material	Plastic resir	n with fiber	glass (Flam	mability to	UL 94V-0)	
Dimensions (L x W x H)	1.12	x 1.02 x 0.6	7 inches (2	8.5 x 25.8 x	17.0 mm)	
SAFETY & EMC						
			UL/cUL, CE, CB (Pending)			
Safety Approvals		U	L/cUL, CE,	CB (Pendin	g)	
	EMI (Conducted and Radiated Emissions)			CB (Pendin ss B (Pendir	_	

MECHANICAL DRAWING :



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 ISO9001-2008 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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