



Size:

2.91 x 2.13 x 0.87 inches 74.0 x 54.0 x 22.0 mm

FEATURES

- RoHS Compliant
- 15 Watts Output Power
- Low Ripple and Noise
- · Single, Dual, and Triple Outputs
- · UL/cUL, and CE Approvals
- Fully Encapsulated Plastic Case
- PCB Mountable Switching Power Supply
- -25°C to +70°C Operating Temperature Range
- Optional -40°C~+71°C Operating Temperature Range
- Universal Input Voltage Range: 90-264VAC (120-370VDC)
- Short Circuit, Over Power, and Over Voltage Protection
- Screw Terminal Mechanical Options Available

DESCRIPTION

The PSANC series of AC/DC switching power supplies provides 15 watts of output power in a 2.91" x 2.13" x 0.87" encapsulated PCB mountable package. This series consists of single, dual, and triple output models with a universal input range of 90-264VAC (120-370VDC). Some features include low ripple and noise, -25°C to +70°C operating temperature range, and over power, over voltage, and short circuit protection. The PSANC series also has two types of screw terminal mechanical options and an extended operating temperature option available. All models are RoHS compliant and have UL/cUL, and CE safety approvals.

MODEL SELECTION TABLE											
SINGLE OUTPUT MODELS											
Model Number		Input Voltage	Output Voltage	Output (Min Load ⁽¹⁾	Current Max Load	Voltage Accuracy	Line Regulation	Load Regulation (5% - 100%)	Output Power	Efficiency	Maximum Capacitive Load
PSANC-5S		90~264	5 VDC	4%	3000mA	±2%	±0.5%	±0.5%	15W	74%	31,000µF
PSANC-12S		VAC	12 VDC	2%	1250mA	±2%	±0.5%	±0.5%	15W	79%	4500µF
PSANC-15S (1		(120~370	15 VDC	0%	1000mA	±2%	±0.5%	±0.5%	15W	78%	2700µF
PSANC-24S		VDC)	24 VDC	0%	625mA	±2%	±0.5%	±0.5%	15W	80%	900µF
	DUAL OUTPUT MODELS										
Model Number		Input Voltage	Output Voltage	Output (Current Max Load	Voltage Accuracy	Line Regulation	Load Regulation (5% - 100%)	Output Power	Efficiency	Maximum Capacitive Load
PSANC-5D	Vo ₁		+5 VDC	0%	1500mA	±5%	±0.5%	±3%	15W	76%	13,500µF
	Vo ₂	90~264 VAC	-5 VDC	0%	1500mA	±5%	±0.5%	±3%			13,500µF
PSANC-12D			+12 VDC	0%	650mA	±5%	±0.5%	±3%	15W	79% 77%	2700µF
	Vo ₂	(120~370 VDC)	-12 VDC	0%	650mA	±5%	±0.5%	±3%			2700µF
PSANC-15D	Vo ₁	,	+15 VDC	0%	500mA	±5%	±0.5%	±3%	15W		1400µF
	Vo ₂		-15 VDC	0%	500mA	±5%	±0.5%	±3%			1400µF
TRIPLE OUTPUT MODELS											
Model Numb	er	Input Voltage	Output Voltage	Output (Min Load ⁽¹⁾	Current Max Load	Voltage Accuracy	Line Regulation	Load Regulation (5% - 100%)	Output Power	Efficiency	Maximum Capacitive Load
PSANC-5S12D	Vo ₁ Vo ₂ Vo ₃	90~264 VAC	5 VDC +12 VDC -12 VDC	10% 0% 0%	2000mA 200mA 200mA	±3% ±3% ±3%	±1% ±5% ±5%	±2% ±5% ±5%	15W	79%	14,000μF 900μF 900μF
	Vo ₁	(120~370 VDC)	5 VDC	10%	2000mA	±3%	±1%	±2%	15W	15W 78%	14,000µF
PSANC-5S15D	Vo ₂		+15 VDC	0%	150mA	±3%	±5%	±5%			680µF
	Vo ₃		-15 VDC	0%	150mA	±3%	±5%	±5%			680µF
NOTES											

NOTES

- 1. Some models require a minimum loading on the output to maintain specified regulations. Operation under no-load conditions will not damage these devices; however, they may not meet all listed specifications.
- 2. For -40°C to +71°C extended operating temperature range please add the suffix –E1 to the model number (Ex: PSANC-12S-E1).
- 3. Screw terminal mechanical options available (see page 4). Please call factory for ordering details.
- 4. This product is Listed to applicable standards and requirements by UL.

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

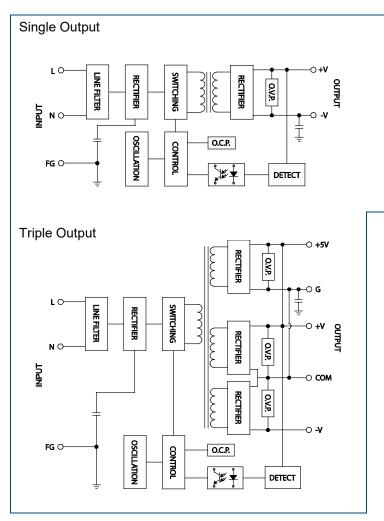


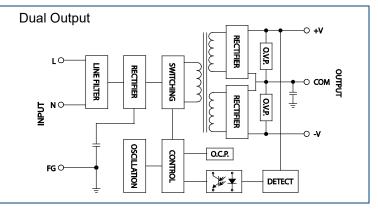
SPECIFICATIONS: PSANC SERIES

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.

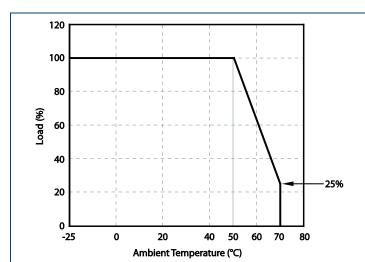
SPECIFICATION		TEST CONDITION	S	Min	Тур	Max	Unit	
INPUT SPECIFICA	TIONS							
Innut Voltage		AC input voltage range	90		264	VAC		
Input Voltage		DC input voltage range		120		370	VDC	
Input Frequency				47		440	Hz	
<u> </u>		At 115VAC and full load			310			
Input Current		At 230VAC and full load			170	mA		
Inrush Current (<2ms)			At 115VAC			10	_	
		Standard Models	At 230VAC			20	Α	
			At 115VAC			23		
		"-E1" Suffix Models	At 230VAC			46	Α	
External Fuse (reco	mmended)		At 230 VAC	1	.5A slow b			
OUTPUT SPECIFIC				·	.on slow L	now type		
Output Voltage	ATIONO				Soo T	ablo		
_				See Table				
Voltage Accuracy		1 1 : 4- 1 !:- - 1 :		See Table See Table				
Line Regulation		Low Line to High Line						
Load Regulation				See Table				
Output Power						15	W	
Output Current				See Table				
Minimum Load				See Table				
Ripple & Noise	Ripple	Measured at 20MHz BW with 0.1µF ar	< 0.2% Vout +40mV max.			Vp-p		
Kippie & Noise	Noise	in parallel	< 0.5% Vout +50mV max.			v p-p		
Max Capacitive Loa	d				See Ta	able		
Hold-Up Time				15			ms	
Temperature Coeffi	cient				±0.02		%/°C	
PROTECTION								
Short Circuit Protec	tion			Hiccup mod	de. indefin	ite (auto-r	ecovery)	
Over Voltage Protect				Hiccup mode, indefinite (auto-recovery) Zener diode clamp				
Over Power Protect				Hiccup technique, auto-recovery				
GENERAL SPECIF				Піссир	technique	, auto-reci	JVEI y	
	ICATIONS				Coo T	ahla		
Efficiency				See Table			121.1-	
Switching Frequence				0000	100		KHz	
	Input to Output			3000				
Isolation Voltage	Input to FG			1500			VAC	
	Output to FG			500				
Leakage Current						0.75	mA	
ENVIRONMENTAL	SPECIFICATION	S						
Operating Tempera	turo	Standard Models	-25		+70	°C		
Operating Tempera	lure	"-E1" Suffix Models	-40		+71	C		
Storage Temperature				-40		+85	°C	
Humidity						95	% RH	
Cooling				Free air convection				
MTBF		25°C (MIL-HDBK-217F)	200,000	50		hours		
PHYSICAL SPECIF	ICATIONS	,						
Weight				4.02oz (114g)				
		With Baseplate 8.61oz (244g)						
Case Material		That Bacopiato	Plastic resin	with fiberals			II 94\/ ₋ 0	
Dimensions (L x W	v ∐\			.13 x 0.87 in				
	^ I I)		Z.81 X Z	. 13 X U.O/ III	UICS (14.U	√ ∧ ∪ 4 .∪ X /	دد.U ۱۱۱۱۱	
SAFETY & EMC					111 / 111 /	1) 05		
Safety Approvals				UL/cUL ⁽⁴⁾ , CE				
EMC		EMI (Conducted and Radiated Emission	ns)	EN 55022 Class B				
		EMS (Noise Immunity) EN 55024						

BLOCK DIAGRAMS

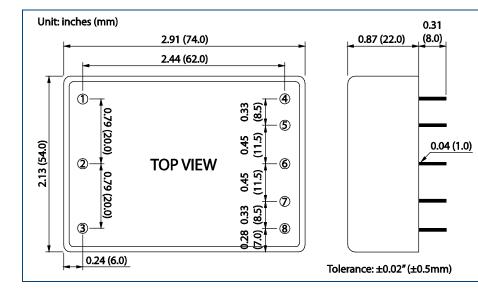




DERATING CURVE



MECHANICAL DRAWING



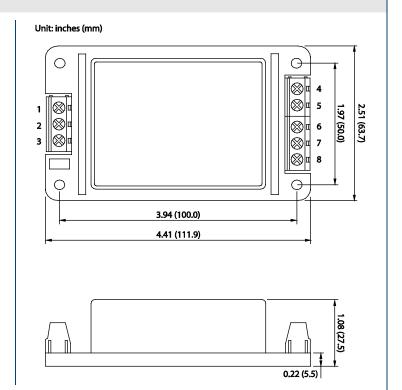
RIPLE FG
IN (N)
IN (L)
TUO
NOMN
TUOC
√ RTN
/OUT

SCREW TERMINAL OPTIONS-





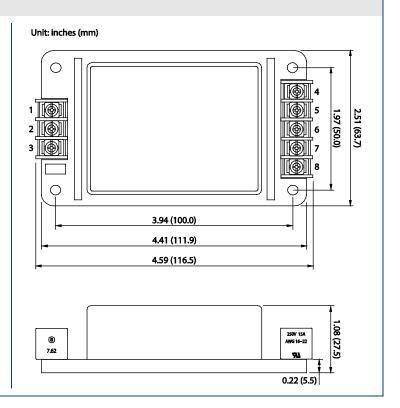
PIN CONNECTIONS						
PIN	SINGLE	DUAL	TRIPLE			
1	FG	FG	FG			
2	AC IN (N)	AC IN (N)	AC IN (N)			
3	AC IN (L)	AC IN (L)	AC IN (L)			
4	NO CONNECT	NO CONNECT	-DC OUT			
5	-DC OUT	-DC OUT	COMMON			
6	NO CONNECT	COMMON	+DC OUT			
7	+DC OUT	+DC OUT	+5V RTN			
8	NO CONNECT	NO CONNECT	+5V OUT			







PIN CONNECTIONS						
PIN	SINGLE	DUAL	TRIPLE			
1	FG	FG	FG			
2	AC IN (N)	AC IN (N)	AC IN (N)			
3	AC IN (L)	AC IN (L)	AC IN (L)			
4	NO CONNECT	NO CONNECT	-DC OUT			
5	-DC OUT	-DC OUT	COMMON			
6	NO CONNECT	COMMON	+DC OUT			
7	+DC OUT	+DC OUT	+5V RTN			
8	NO CONNECT	NO CONNECT	+5V OUT			





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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