Size: 2.07in x 1.08in x 0.93in (52.5mm x 27.5mm x 23.5mm)

FEATURES

- Input Voltage of 90-264VAC/120-370VDC
- Switching Power Module for PCB Mount
- Full Encapsulated Plastic Case
- Low Standby <0.25W
- Regulated Output and Low Ripple & Noise
- Isolation Class II
- Over Power, Over Voltage, and Short Circuit Protection
- CE and UL Safety Approvals

DESCRIPTION

The PSAFCN series of AC/DC PCB mount power supplies offers up to 10 watts of output power in a compact 2.07" x 1.08" x 0.93" package. This series consists of single output models with an input voltage range of 90-264VAC. Each model in this series has over power, over voltage, and short circuit protection as well as CE and UL safety approvals. Please call factory for order details.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current		Ripple	Noise	Output Power	Maximum Capacitive Load	Efficiency
			Min Load	Max Load					
PSAFCN-3.3S	90-264VAC or 120-370VDC	3.3V	0%	2500mA	75mVp-p	120mVp-p	8.25W	8000uF	74%
PSAFCN-5S		5V	0%	2000mA	75mVp-p	120mVp-p	10W	8000uF	79%
PSAFCN-12S		12V	0%	833mA	1% of Vout	1% of Vout	10W	2000uF	82%
PSAFCN-15S		15V	0%	667mA	1% of Vout	1% of Vout	10W	1500uF	78%
PSAFCN-24S		24V	0%	417mA	1% of Vout	1% of Vout	10W	560uF	80%

SPECIFICATIONS

All specifications are based on 25°C After Warm-Up, Normal Input Voltage, and Full Load unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		90		264	VAC
		120		370	VDC
Input Frequency		47		440	Hz
Inrush Current	@115VAC, <2ms, Cold Start			20	A
	@230VAC, <2ms, Cold Start			40	
Leakage Current				0.25	mA
Input Current	@115VAC, Full Load			220	mA
	@230VAC, Full Load			150	
External Fuse (Mandatory)	Slow Blow Type			2	A
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Accuracy			±2		%
Line Regulation	LL-HL		±0.5		%
Load Regulation	5-100%		±1		%
Output Power		See Table			
Output Current		See Table			
Maximum Capacitive Load		See Table			
Ripple & Noise[1]		See Table			
Hold-Up Time	@115VAC		20		ms
	@230VAC		80		
Temperature Coefficient		-0.05		+0.05	%/ºC
PROTECTION					
Short Circuit Protection		Hiccup Mode, Indefinite (Automatic Recovery)			
Over Power Protection		Hiccup Technique, Automatic Recovery			
Over Voltage Protection		Zener Diode Clamp			
ENVIRONMENTAL SPECIFICATIONS					
Operating Case Temperature	With Derating	-40		+70	ºC
Storage Temperature		-40		+85	ºC
Humidity		20		85	% RH
MTBF	@25ºC (MIL-HDBK-217F)	330,000			Hours

SPECIFICATIONS

All specifications are based on 25°C After Warm-Up, Normal Input Voltage, and Full Load unless otherwise noted.
We reserve the right to change specifications based on technological advances.

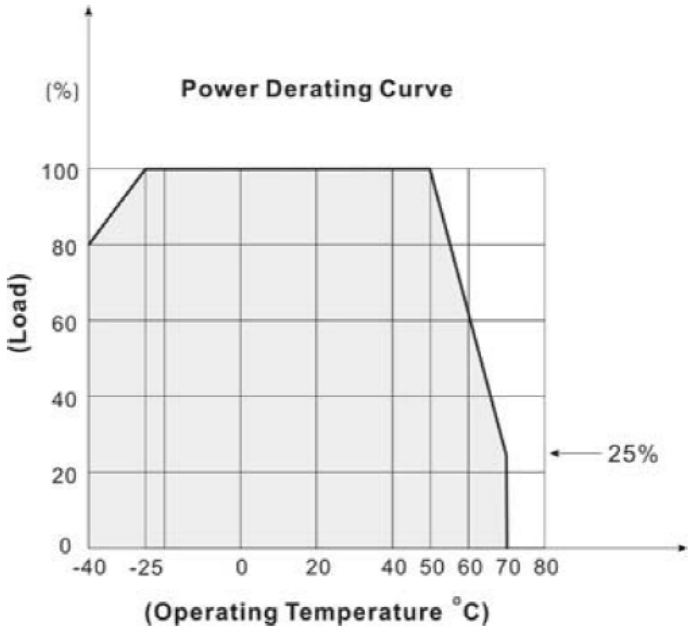
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
GENERAL SPECIFICATIONS					
Efficiency			See Table		
Isolation	Input-Output VAC		3000		VAC
PHYSICAL SPECIFICATIONS					
Weight			2.05oz (58g)		
Dimensions (L x W x H)	Tolerance ±0.5mm		2.07in x 1.08in x 0.93in (52.5mm x 27.5mm x 23.5mm)		
Case Material			Plastic Resin (Flammability to UL 94V-0)		
Cooling Method			Free Air Convection		
SAFETY CHARACTERISTICS					
Safety Approvals	UL/cUL(3), CE				
EMI	Conducted & Radiated Emission, EN55022				Class B
EMS	Noise Immunity, EN55024				

NOTES

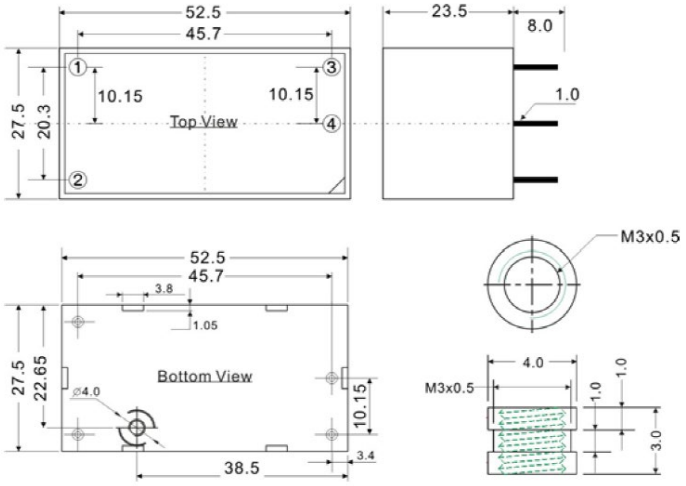
1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. It's recommended to add Varistor 14S471K at L/N input side in parallel.
3. This product is Listed to applicable standards and requirements by UL.

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

DERATING CURVES



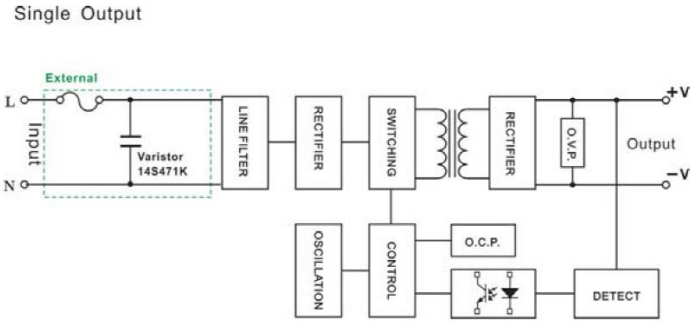
MECHANICAL DRAWINGS



Pin #	Single
1	AC IN (L)
2	AC IN (N)
3	+DC OUT
4	-DC OUT

Maximum Torque 12 {1.21} (kgf.cm {N.m})

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