



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

FEATURES

- Wide Input Voltage Range of 90~264VAC (120~370VDC)
- Switching Power Module for PCB Mount
- Fully Encapsulated Plastic Case
- Low Standby
- Over Power, Over Voltage, and Short Circuit Protection
- Regulated Output
- Low Ripple & Noise
- Isolation Class II
- CE, CB, and UL Approvals

DESCRIPTION

The PSDFH-25 series of AC/DC power modules offers up to 25 watts of output power in a compact 2.07" x 1.08" x 0.93" fully encapsulated plastic case. This series consists of regulated single output models with a wide input voltage range of 90~264VAC. Each model in this series has low ripple & noise as well as protection against over power, over voltage, and short circuit conditions. This series is isolation class II and has CE, CB, and UL approvals. Please contact 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				
PSDFH25-5.1S	90~264VAC (120~370VDC)	5.1VDC	0%	3922mA	120mVp-p	20W	2000µF	82%
PSDFH25-12S		12VDC	0%	2083mA	150mVp-p	25W	680µF	86%
PSDFH25-15S		15VDC	0%	1666mA	160mVp-p	25W	220µF	85%
PSDFH25-24S		24VDC	0%	1042mA	240mVp-p	25W	220µF	86%

SPECIFICATIONS

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	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		90		264	VAC
		120		370	VDC
Frequency		47		440	Hz
Input Current	@115VAC, Full Load			490	mA
	@230VAC, Full Load			320	
Inrush Current	@115VAC, <2ms, Cold Start			30	A
	@230VAC, <2ms, Cold Start			60	
Leakage Current	@230VAC			0.25	mA
External Fuse (Mandatory) ⁽¹⁾		3.15A, Slow Blow Type			
External Varistor (Recommended) ⁽²⁾		14S471K			
External Thermistor (Recommended) ⁽³⁾		10R/10φ			
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Accuracy			±2		%
Line Regulation	LL-HL		±1		%
Load Regulation	5-100%		±3		%
			±1		
Output Power		See Table			
Output Current		See Table			
Minimum Load		0			%
Maximum Capacitive Load		See Table			
Ripple & Noise ⁽⁴⁾		See Table			
Hold-Up Time	@230VAC		36		mS
Temperature Coefficient			±0.05		%/°C
PROTECTION					
Short Circuit Protection	Hiccup Mode	Indefinite (Automatic Recovery)			
Over Power Protection	Hiccup Technique	Automatic Recovery			
Over Voltage Protection		Zener Diode Clamp			

SPECIFICATIONS

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

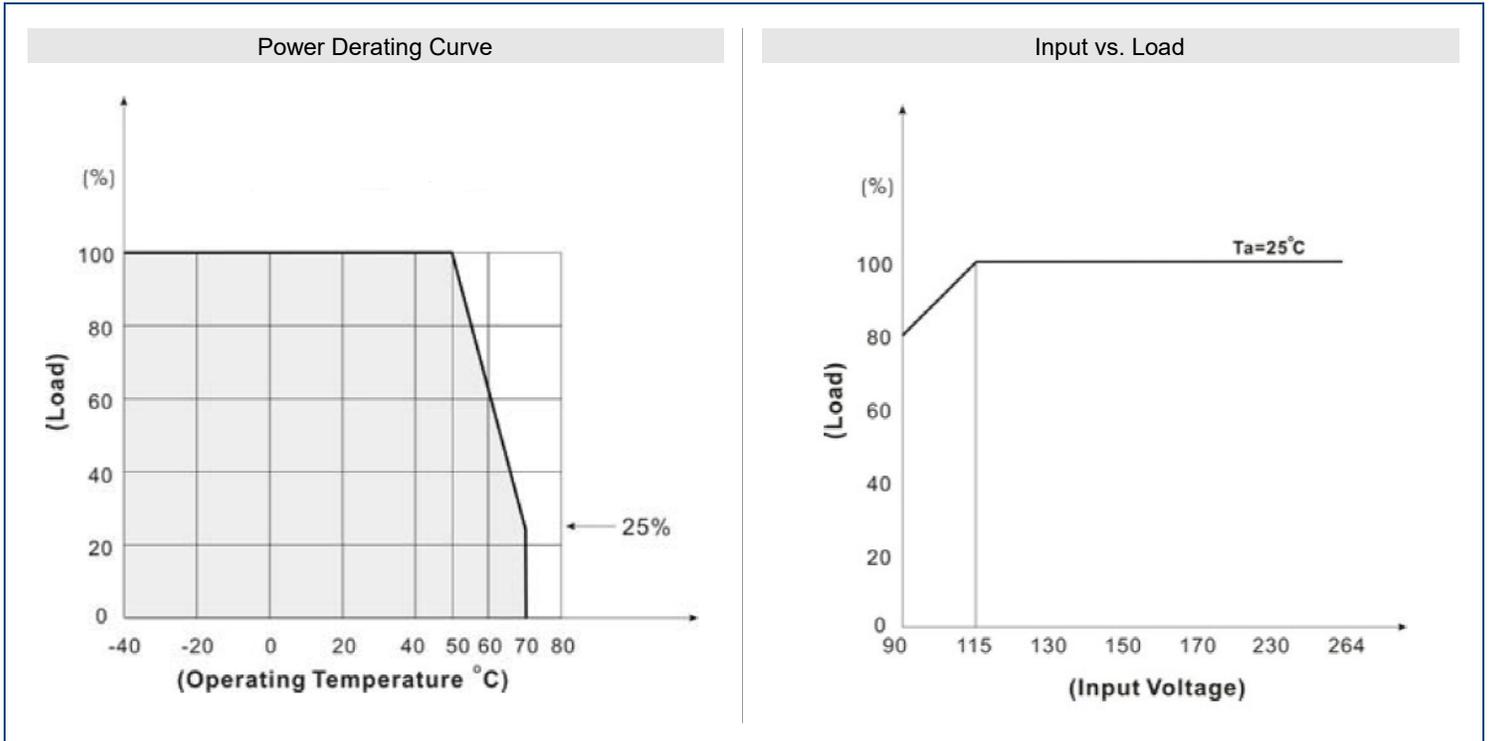
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	With Derating	-40		+70	°C
Storage Temperature		-40		+85	°C
Humidity			95		%RH
MTBF	@25°C (MIL-HDBK-217F)	400,000			Hours
GENERAL SPECIFICATIONS					
Efficiency	@230VAC	See Table			
Isolation	Input to Output		3000		VAC
PHYSICAL SPECIFICATIONS					
Weight		2.19oz (62g)			
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		Free Air Convection			
SAFETY CHARACTERISTICS					
Safety Approvals	UL/cUL 60950-1 ⁽⁵⁾ & IEC/EN60950-1, TUV IEC/EN60335-1, CE				
EMI (Conducted & Radiated Emission)		EN 55032			Class B
EMS (Noise Immunity)		EN 55024			
Isolation Class					Class II

NOTES

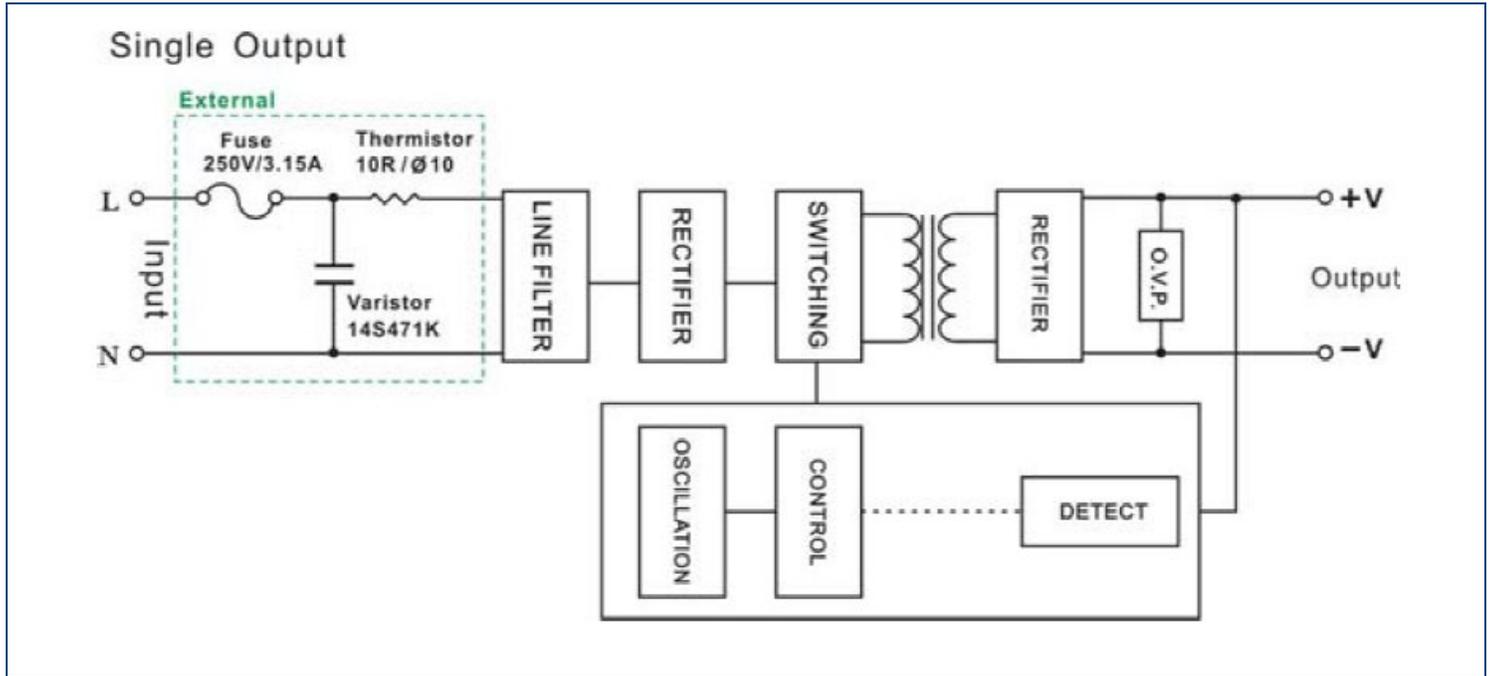
1. Necessary Fuse 250V/3.15A at L input side input series connection.
2. Recommended Varistor 14S471K at L/N input side in parallel.
3. Recommended 10R/10φ thermistor at L input side in series connection.
4. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel.
5. This product is Listed to applicable standards and requirements by UL.

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

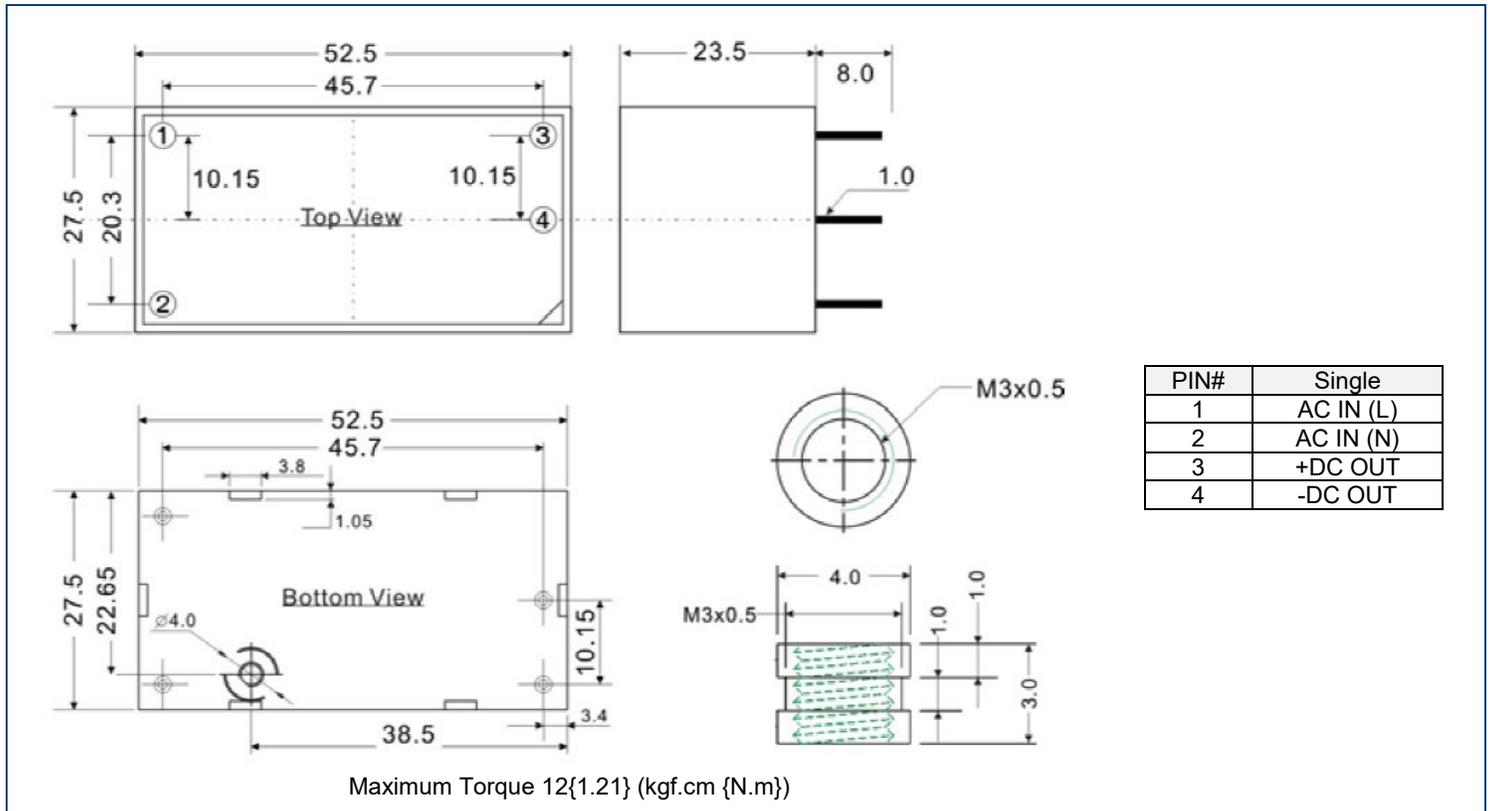
DERATING CURVES



BLOCK DIAGRAM



MECHANICAL DRAWINGS



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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