



Size: 3.11in x 2.01in x 1.13in (79mm x 51mm x 28.8mm)

FEATURES

- Universal Input Range 90~264VAC (127~370VDC)
- Small Size
- High Power Density
- High Efficiency
- High Reliability
- Withstands 300VA Surge for 5 Seconds
- 100% Full Load Burn-In Test
- Suitable for Critical Applications
- Over Load, Over Voltage, and Short Circuit Protection
- Wide Operating Ambient Temperature (-25°C to +70°C)
- All Using 105°C Long Life Electrolytic Capacitors
- PCB Soldering Side with Conformal Coating
- UL60950-1 2nd Ed, IEC 60950-1:2005 2nd Ed, EN60950-1:2006

DESCRIPTION

The PSPSD-25 series of AC/DC switching power supplies offers up to 26.4 Watts of output power in a 3.11" x 2.01" x 1.13" enclosed case. All models have a single output and a universal AC input voltage range of 88~264VAC. Some features include wide operating temperature range (-25°C to +70°C), ±10% output adjustability, and over load, over voltage, and short circuit protection. These supplies have U L60950-1 2nd Ed, IEC 60950-1:2005 2nd Ed, EN60950-1:2006 safety approvals and are 100% full load burn-in tested.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise ⁽¹⁾	Output Power	Efficiency	
			Min Load	Max Load			115VAC	230VAC
PSPSD-25-S3.3	90~264VAC (127~370VDC)	3.3VDC	0A	5A	<50mVp-p	16.5W	70%	71%
PSPSD-25-S5		5VDC	0A	5A	<50mVp-p	25W	76%	78%
PSPSD-25-S12		12VDC	0A	2.1A	<120mVp-p	25W	80%	82%
PSPSD-25-S15		15VDC	0A	1.6A	<120mVp-p	25.5W	82%	83%
PSPSD-25-S24		24VDC	0A	1.1A	<120mVp-p	26.4W	84%	85%

SPECIFICATIONS

All specifications are based on 25°C Ambient Temperature, 230VAC Input, and Rated Load unless otherwise noted. We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
Input Voltage Range		90		264	VAC
		127		370	VDC
Frequency Range		47		63	Hz
AC Current				0.7	A
Inrush Current	115VAC, Cold Start		<20		A
	230VAC, Cold Start		<40		
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Accuracy	3.3VDC & 5VDC Models		±2.0		%
	12VDC, 15VDC, & 24VDC Models		±1.0		
Line Regulation			±0.5		%
Load Regulation	3.3VDC & 5VDC Models		±2.0		%
	12VDC, 15VDC, & 24VDC Models		±1.0		
Voltage Adjustment Range	% of Rated Output Voltage	-5		+10	%
Output Power		See Table			
Output Current		See Table			
Minimum Load		0			A
Ripple & Noise	-25~70°C	See Table			
Set-Up Time	115VAC Input, Full Load			2.0	S
	230VAC Input, Full Load			1.0	
Hold Up Time	115VAC Input, Full Load	14			mS
	230VAC Input, Full Load	30			
Temperature Coefficient			±0.03		%/°C
Overshoot and Undershoot				5.0	%

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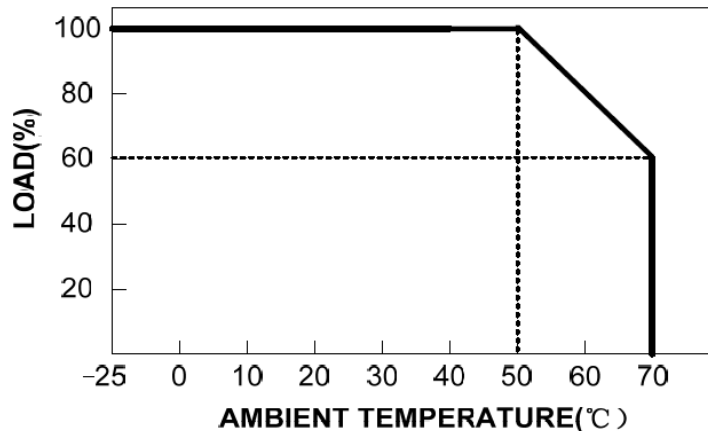
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
PROTECTION					
Short Circuit Protection	Long-Term Mode	Automatic Recovery			
Over Load Protection	Hiccup Mode, Automatic Recovery	105~150% of Rated Output Current			
Over Voltage Protection	Constant Voltage	105~150% of Rated Output Voltage			
ENVIRONMENTAL SPECIFICATIONS					
Operating Ambient Temperature	See Derating Curve	-25		70	°C
Storage Temperature		-40		85	°C
Operating Humidity	Non Condensing	20		90	%RH
Storage Humidity	Non Condensing	10		95	%RH
Cooling		Free Air Convection			
MTBF	25°C, Full Load, MIL-HDBK-217F	200,000			Hours
GENERAL SPECIFICATIONS					
Typical Efficiency		See Table			
Withstand Voltage	Primary to Secondary	3.0KVac; ≤10mA			
	Primary to PG	1.5KVac; ≤10mA			
	Secondary to PG	0.5KVDC; ≤10mA			
Isolation Resistance		≥100			MΩ
Leakage Current	Input to Output			0.25	mA
	Input to PG			0.75	
PHYSICAL SPECIFICATIONS					
Weight		7.64oz (216.67g)			
Dimensions (L x W x H)		3.11in x 2.01in x 1.13in (79mm x 51mm x 28.8mm)			
Packing		48pcs/CTN, 10.4kg, 0.03CBM			
SAFETY CHARACTERISTICS					
Safety Approvals	UL60950-1 2 nd Ed; IEC 60950-1:2005 (2 nd Ed); EN60950-1:2006				
EMC Emission	Compliance to EN55022; EN55024				
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024; EN61000-6-2 heavy industry level				
Harmonic Current	Compliance to EN61000-3-2, -3				

NOTES

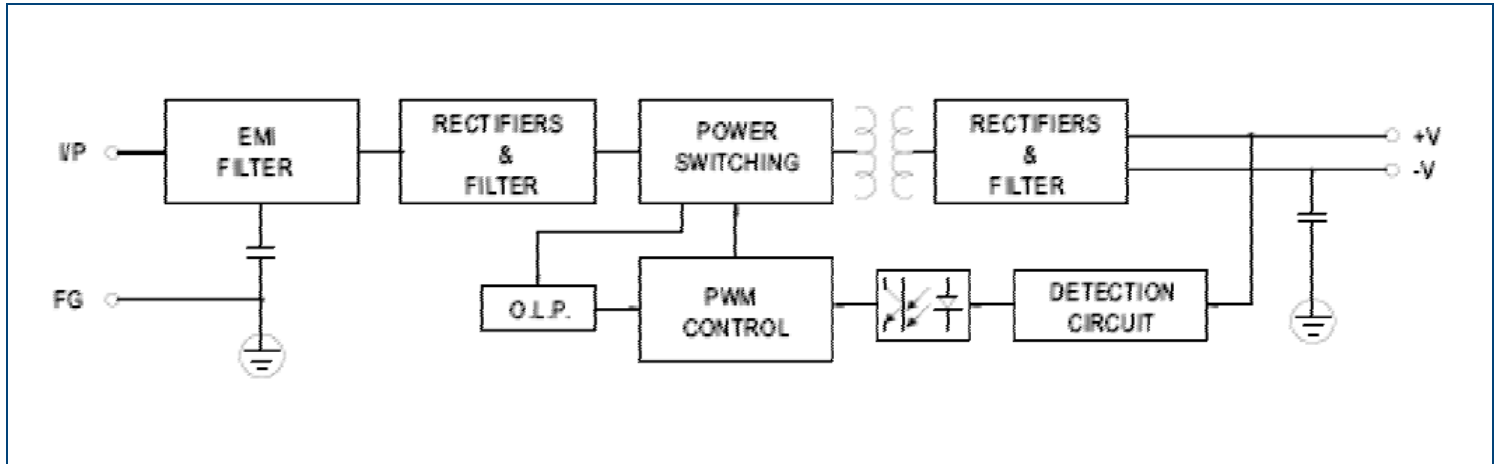
- Ripple & Noise measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 10uF parallel capacitor.
- The SPS is considered a component that will be installed into final equipment. Equipment must be re-confirmed that it still meets EMC directives.
- Accessories for DIN-35 rail bar are available. Contact factory for details.

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

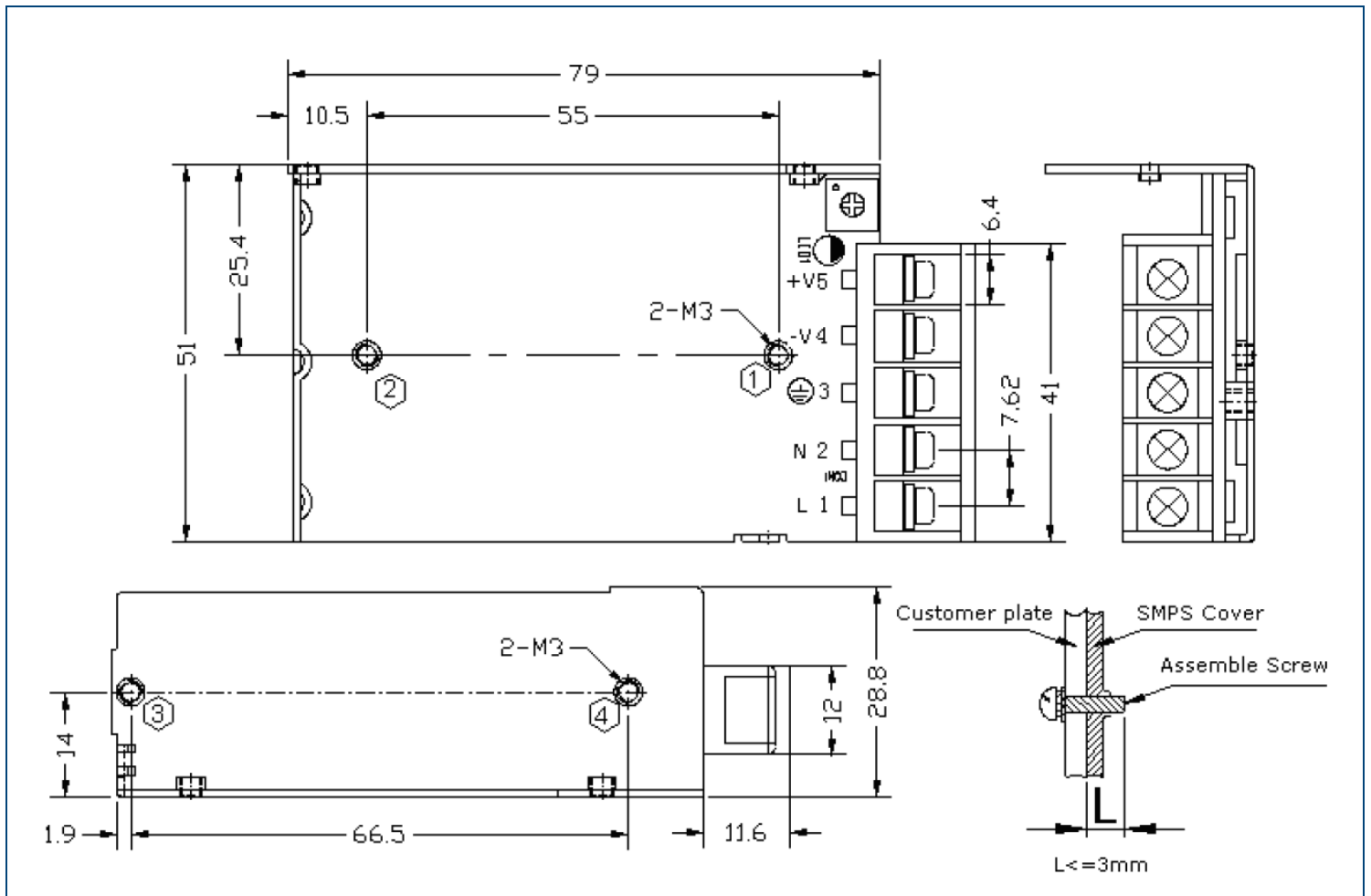
DERATING CURVES



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 ISO9001-2008 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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