

PSPSD-60 SERIES

88~264VAC Input Voltage Range Single Outputs 60 Watts Output Power AC/DC Switching Power Supplies



FEATURES

- Single Output
- RoHS Compliant
- Universal AC Input Range (Full Range)
- High Efficiency and High Reliability
- Over Voltage, Over Load, and Short Circuit Protected
- Wide Operating Ambient Temperature (-20°C to +70°C)
- All Using 105°C Long Life Electrolytic Capacitors
- 60W Output Power
- 100% Full Load Burn-in Tested
- Output Voltages Available from 5VDC to 48VDC
- Dimensions: 5.08" x 3.86" x 1.50"
- Output Voltage Adjustability

DESCRIPTION

The PSPSD-60 series of AC/DC switching power supplies offers 60 Watts of output power in a 5.08" x 3.86" x 1.50" 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 (-20°C to +70°C), output adjustability, and over load, over voltage, and short circuit protection. These supplies are RoHS compliant and have UL/cUL and CE safety approvals. All models are 100% full load burn-in tested.



SPECIFICATIONS: *PSPSD-60 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.

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INPUT SPECIFICATIO	ONS				
Input Voltage Range		88~264VAC			
Input Frequency		47~63Hz			
AC Current		5V & 12V output models: 1.6A max.			
		15V & 24V output models: 1.5A max.			
		48V output model: 1.45A max.			
Inrush Current		Cold Start 20A typ. at 115VAC; 40A typ. at 230VAC			
OUTPUT SPECIFIC	ATIONS				
Output Voltage		See Table			
Voltage Accuracy		±2.0%			
Voltage Adjustment Range		See Table			
Line Regulation		±0.5%			
Load Regulation		±2.0%			
Output Current		See Table			
Ripple & Noise (See Note 1)		See Table			
Setup Time		< 2.0s at 115VAC and full load; < 1.0s at 230VAC and full load			
Hold Up Time		> 10ms at 115VAC and full load; > 20ms at 230VAC and full load			
Temperature Coefficient		±0.03%/°C			
Overshoot and Undershoot		< 5.0%			
PROTECTION		13.070			
Over Load Protection		105% ~ 150% of rated output power, hiccup mode, auto-recovery			
Over Load Flotection		120% ~ 150% of rated output power, inceup mode, auto-recovery			
		$110\% \sim 133\%$ of rated output voltage, shutdown (3V)			
Over Voltage Protection	n	110% ~ 140% of rated output voltage, shutdown (15V & 24V)			
		110% ~ 125% of rated output voltage, shutdown (48V)			
Short Circuit Protection		Long-term mode, auto-recovery			
GENERAL SPECIFIC	CATIONS				
Efficiency (typical)		See Table			
7 (31)	Primary to Secondary	3000VAC; ≤ 10mA			
Withstand Voltage	Primary to PG	1500VAC; \le 10mA			
· · · · · · · · · · · · · · · · · · ·	Secondary to PG	500VDC; ≤ 10mA			
Isolation Resistance		$\geq 100 \text{M}\Omega$			
Leakage Current		< 0.25mA at 115VAC; < 3.5mA at 230VAC			
	SPECIFICATIONS	10.25mm at 115 vite, 15.5mm at 250 vite			
ENVIRONMENTAL SPECIFICATIONS Operating Ambient Temperature		-20°C to +70°C			
Storage Temperature		-40°C to +85°C			
Working Humidity		20 ~ 90% RH (non-condensing)			
Storage Humidity		$20 \sim 90\%$ RH (non-condensing) $10 \sim 95\%$ RH (non-condensing)			
Cooling Method		Free air convection			
MTBF (MIL-HDBK-217F)		> 100,000 hours @ 25°C and full load			
,	·	- 100,000 hours (a) 23 C and full load			
PHYSICAL SPECIFI Dimensions (L x W x H		5 08 v 2 86 v 1 50 inches (120 v 00 v 20 mm)			
		5.08 x 3.86 x 1.50 inches (129 x 98 x 38 mm)			
Packing CARETY & EMC (C)	- M-4-2)	30PCS/CTN, 14.2Kgs, 0.044CBM			
SAFETY & EMC (Sec	e Note 2)	TH (0050 1(3) EN(0050 1 2000			
Safety Standards EMI Conduction and Podiction		UL60950-1 ⁽³⁾ , EN60950-1: 2006			
EMI Conduction and R	adiation	Compliance to EN55022 (CISPR22) Class B			
EMS Immunity		Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, light industry level, criteria A			

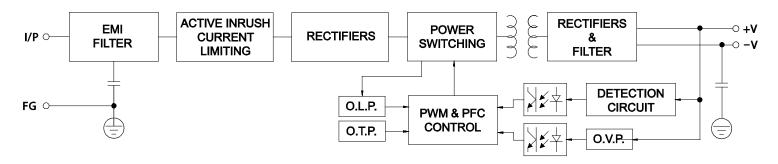


MODEL SELECTION TABLE										
Model Number	Input Voltage	Output Output Voltage Current	Output	Voltage Adj. Range	Ripple & Noise (1)		Output	Efficiency		
Wiodel Number			Current		-10°C	0°C~+55°C	Power	Efficiency		
PSPSD-60-5	88 ~ 264 VAC	5 VDC	12A	4.2 - 5.8 VDC	100mVp-p	50mVp-p	60W	75%		
PSPSD-60-12		12 VDC	5A	10.8 – 13.2 VDC	120mVp-p	120mVp-p	60W	80%		
PSPSD-60-15		15 VDC	4.0A	13.5 – 16.5 VDC	120mVp-p	120mVp-p	60W	80%		
PSPSD-60-24		24 VDC	2.5A	21.5 – 25.8 VDC	120mVp-p	120mVp-p	60W	80%		
PSPSD-60-48		48 VDC	1.25A	45 – 52 VDC	240mVp-p	240mVp-p	60W	83%		

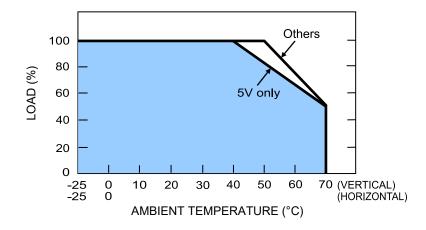
NOTES

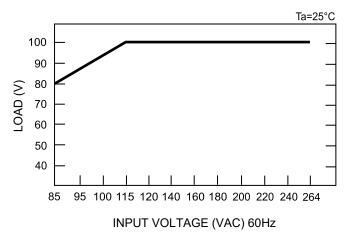
- 1. Ripple & noise is measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with $0.1\mu F$ and $47\mu F$ capacitors in parallel.
- 2. The SPS is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
- 3. This product is Listed to applicable standards and requirements by UL.
- *Due to advances in technology, specifications subject to change without notice.

BLOCK DIAGRAM



DERATING CURVES



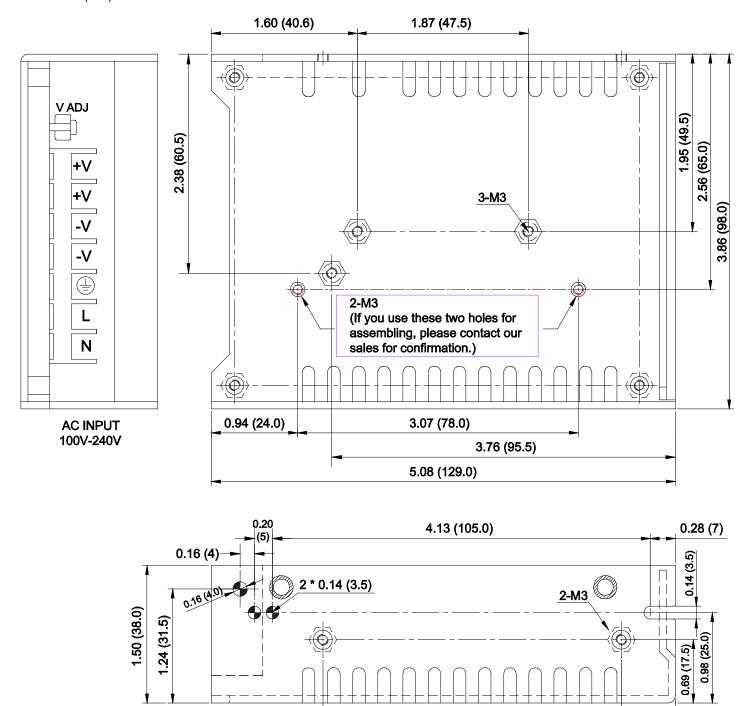




MECHANICAL DRAWING

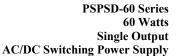
Unit: inches (mm)

10/3/2019



3.27 (83.0)

0.59 (15.0)





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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