



Size: 8.92in x 4.53in x 1.97in

FEATURES

- Single Outputs
- RoHS Compliant
- Built-In Fan
- Built-In PFC Function, PF >0.95
- Universal Input Voltage Range (Full Range)
- High Efficiency and High Reliability
- All Using 105°C Long Life Electrolytic Capacitors
- PCB Soldering Side with Conformal Coating
- Up to 321.6W Output Power
- 100% Full Load Burn-In Tested
- Output Voltages Available from 3.3VDC to 48VDC
- Output Voltage Adjustability
- Wide Operating Temperature Range (-20°C to +65°C)
- Enclosed Case
- Short Circuit, Over Voltage, Over Load, and Over Temperature Protection

DESCRIPTION

The PSPDF-320 series of AC/DC switching power supplies offers up to 321.6 Watts of output power in a 8.92" x 4.53" x 1.97" enclosed case. All models have a single output and a universal input voltage range of 88~264VAC (124~370VDC). Some features include ±10% output adjustability, PFC > 0.93 at 230VAC, built-in fan, and a wide operating temperature range of -20°C to +65°C. These supplies also have short circuit, over load, over voltage, and over temperature protection. All models are RoHS compliant and have UL60950-1, EN60950-1:2006, CB, and CE safety approvals. These supplies are 100% full load burn-in tested.

MODEL SELECTION TABLE										
Model Number	Input Voltage	Output Output Curre		t Current	Ripple & Noise		Output Voltage		Efficiency	
	Range	Voltage	Min. Load	Rated Load	0-65°C	-20-0°C	Power	Adjustment Range	115VAC	230VAC
PSPDF-320-3.3		3.3V	0A	60A	<150mV	<180mV	198W	3.1~3.6V	72%	77%
PSPDF-320-5		5VDC	0A	60A	<150mV	<180mV	300W	4.4~5.3V	73%	79%
PSPDF-320-7.5		7.5VDC	0A	40A	<150mV	<180mV	300W	6.6~8.4V	77%	83%
PSPDF-320-12		12VDC	0A	25A	<150mV	<180mV	300W	10.5~13.3V	78%	86%
PSPDF-320-24		24VDC	0A	13A	<150mV	<180mV	312W	19.7~26.4V	79%	87%
PSPDF-320-36		36VDC	0A	8.8A	<200mV	<200mV	316.8W	33.2~38.4V	80%	87%
PSPDF-320-48		48VDC	0A	6.7A	<240mV	<240mV	321.6W	41.5~53.1V	81%	88%

SPECIFICATIONS						
	All specifications are based on 25°C, Rated Input, and Rated Load unless other	nerwise not	ed.			
	We reserve the right to change specifications based on technological ac		_			
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit	
INPUT SPECIFICATIONS					_	
Input Voltage Range	AC Input Voltage Range	88		264	VAC	
Input voltage Nange	DC Input Voltage Range	124		370	VDC	
Inrush Current	At 115VAC and cold start		<30		A	
	At 230VAC and cold start		<50		^	
Input Frequency		47		63	Hz	
Power Factor	@115VAC		>0.98]	
Fower Factor	@230VAC		>095			
AC Current				4.0	Α	
OUTPUT SPECIFICATIONS					_	
Output Voltage	See Table					
Valtaga Aggurgay	3.3V, 5V, 7.5V Output Models	-2.0		+2.0	%	
Voltage Accuracy	12V, 24V, 36V, 48V Output Models	-1.0		+1.0	70	
	3.3V, 5V, 7.5V Output Models	-0.5		+0.5		
Line Regulation	12V Output Model	-0.3		+0.3	%	
	24V, 36V, 48V Output Models	-0.2		+0.2		
Load Regulation	3.3V, 5V, 7.5V Output Models	-1.0		+1.0	%	
Load Regulation	12V, 24V, 36V, 48V Output Models	-0.5		+0.5	/0	
Voltage Adjustment Range		See Table				
Output Power		See Table				
Output Current		See Table				
Ripple & Noise ⁽¹⁾		See Table				
Set-Up Time	115VAC Input, Full Load			2.5	S	
Set-Op Time	230VAC Input, Full Load			1.2	3	
Hold Up Time	3.3V, 5V Output Models, 230VAC Input, Full Load	14			mS	
Hold Op Time	7.5V, 12V, 24V, 25V, 48V Output Models, 230VAC Input, Full Load	16			1110	
Temperature Coefficient			±0.03		%/°C	
Overshoot and Undershoot				5.0	%	



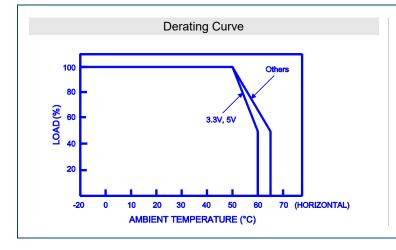
SPECIFICATIONS								
Alls	pecifications are based on 25°C, Rated Input, and Rated Load unless of		d.					
We reserve the right to change specifications based on technological advances.								
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit			
PROTECTION								
Short Circuit Protection	Long Term Mode	Automatic Recovery						
Over Load Protection	Hiccup Mode, Automatic Recovery	105		135	%lo			
Over Voltage Protection	Shut Down	110		150	%Vo			
Over Temperature Protection	Shut down, automatic recovery after temperature goes down, detect on heatsink of power transistor	85°C ± 5°C						
ENVIRONMENTAL SPECIFICATION	IS							
Operating Ambient Temperature	See Derating Curve	-20		65	°C			
Storage Temperature		-40		85	0			
Operating Humidity	Non-Condensing	20		90	%RH			
Storage Humidity	Non-Condensing	10		95	%RH			
Cooling Method	Forced Air Cooling	Built-In Fan						
MTBF	25°C, Full Load	300,000			Hours			
GENERAL SPECIFICATIONS			·					
Efficiency		See Table						
•	Primary to Secondary	3.0KVac; ≤10mA						
Withstand Voltage	Primary to PG 1.5KVAC; ≤10mA							
	Secondary to PG	0.5KVAC; ≤10mA						
Isolation Resistance	,		≥100		ΜΩ			
	Input-Output		≤0.1					
Leakage Current	Input-PG		≤0.75		mA			
PHYSICAL SPECIFICATIONS			·					
Weight	aht			Approx. 2.56lbs (1160g)				
		8.92in x 4.53in x 1.97in						
Dimensions (L x W x H)	(226.5mm x 115mm x 50mm)							
Packing		10PCS/CTN, 11.6KGS, 0.04C		CBM				
SAFETY CHARACTERISTICS								
Cafaty Approvala	UL60950-1 ⁽⁴⁾							
Safety Approvals	EN60950-1: 2006							
EMI	Compliance to EN55022				Class B			
Harmonic Current	Compliance to EN61000-3-2				Class D			
EMS Immunity ⁽²⁾	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; heavy industrial level							

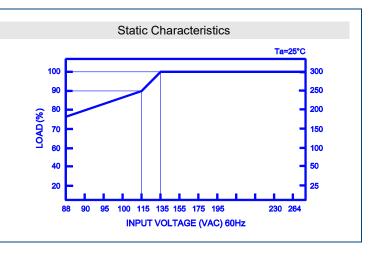
NOTES

- 1. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- 2. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives.
- 3. DIN-35 Rail Bar accessories offered. Contact factory for more information.
- 4. This product is listed to applicable standards and requirements by UL.

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

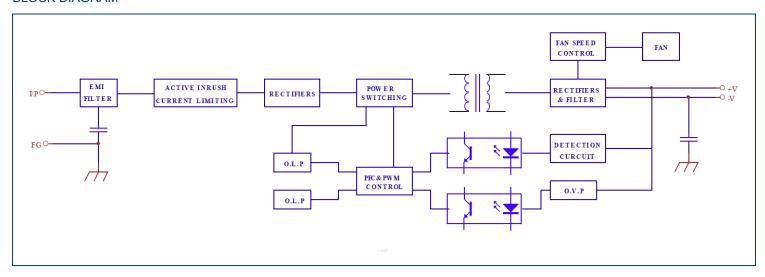
CHARACTERISTIC CURVES:



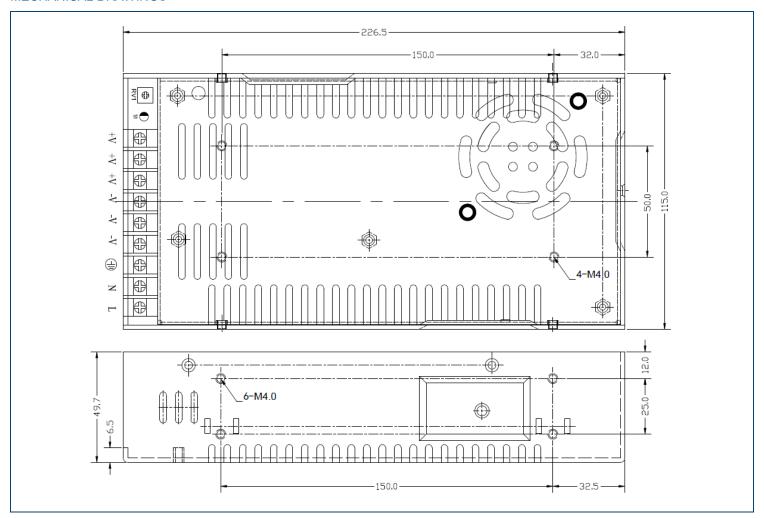




BLOCK DIAGRAM



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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