



Size: 5.08in x 3.87in x 1.48in (129mm x 98.3mm x 37.6mm)

FEATURES

- Universal Input Range of 90~264VAC
- Built-In Active PFC Function
- High Power Density
- High Efficiency and Reliability
- Easy Assembly from Top Side
- PCB Soldering Side with Conformal Coating
- Withstand 300VAC Surge Input for 5 Sec.
- Over Load, Over Power, and Short Circuit Protection
- 105°C Long Life Electrolytic Capacitors
- 100% Full Load Burn-In Test
- UL60950-1 2nd Edition, IEC 60950-1:2005 (2nd Edition), and EN60950-1:2006 Safety approvals

DESCRIPTION

The PSMPF100 series of AC/DC power supplies offers up to 100 watts of output power in a miniature 5.08" x 3.87" x 1.48" package. This series consists of single output models with a universal input range of 90~264VAC. Each model features 105°C long life electrolytic capacitors, high power density, efficiency and reliability, and built-in active PFC function. The PSMPF100 series is also protected against over load, over power, and short circuit conditions, has 100% full load burn-in test, and has UL609509-1 2nd Edition, IEC 6095-1:2005 (2nd Edition), and EN60950-1:2006 safety approvals.

MODEL SELECTION TABLE									
Model Number	Input Voltage Range	Output Voltage	Voltage Adjustment Range	Output Current		Ripple & Noise		Efficiency	Output Dawer
				Min Load	Max Load	0~70°C	-20~0°C	Efficiency	Output Power
PSMPF100-5S	90~264VAC	5V	3.3~5.5V	0A	20A	≤150mV	≤150mV	≥84%	
PSMPF100-12S		12V	10~15V	0A	8.5A	≤150mV	≤150mV	≥87%	
PSMPF100-15S		15V	10~15.15V	0A	7A	≤150mV	≤150mV	≥87%	100W
PSMPF100-24S		24V	21~27V	0A	4.2A	≤150mV	≤150mV	≥88%	
PSMPF100-48S		48V	43.2~52.8V	0A	2.2A	≤150mV	≤200mV	≥88%	

SPECIFICATIONS						
All specifications	are based on 25°C Ambient Temperature, Rated Input, and Rated Lo	ad unless oth	nerwise note	d.		
	We reserve the right to change specifications based on technological	advances.				
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit	
INPUT SPECIFICATIONS						
Input Voltage Range		90		264	VAC	
Frequency Range		47		63	Hz	
AC Current				1.5	Α	
Inrush Current	@115VAC, Cold Start		<30		۸	
inrusti Current	@230VAC, Cold Start		<50		A	
Dawer Faster	@115VAC	0.98				
Power Factor	@230VAC	0.93				
OUTPUT SPECIFICATIONS						
Output Voltage		See Table				
\/-lk	5~15V Models				0/	
Voltage Accuracy	24~48V Models		±1.0		%	
Line Regulation			±0.5		%	
Load Degulation	5~15V Models		±2.0		%	
Load Regulation	24~48V Models		±1.0		70	
Output Power		See Table				
Output Current		See Table				
Ripple & Noise (20MHz bandwidth)		See Table				
Overshoot and Undershoot				5.0	%	
Cat Un Tima	@115VAC	≤4			S	
Set-Up Time	@230VAC		≤2		5	
Hold Up Time	230VAC Input, Full Load		≥12		mS	
Temperature Coefficient			±0.03		%/°C	
PROTECTION						
Short Circuit Protection	Long Term Mode	Automatic Recovery				
Over Load Protection	% of Rated Output Current, Hiccup Mode, Automatic Recovery	110		150	%	
Over Power Protection	% of Rated Output Current, Hiccup Mode, Automatic Recovery	110		150	%	



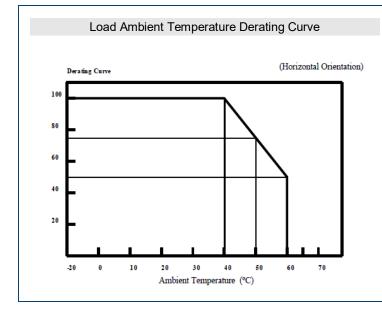
SPECIFICATIONS							
All specific	cations are based on 25°C Ambient Temperature, Rated Input, and Ra		nerwise noted	d.			
	We reserve the right to change specifications based on techno		-				
SPECIFICATION ENVIRONMENTAL SPECIFICA	TEST CONDITIONS	Min	Тур	Max	Unit		
Operating Temperature	ATIONS	-20		60	°C		
Storage Temperature		-30		85	ပ		
Operating Humidity	Non-Condensing (See Derating Curve)	20		90	%RH		
Storage Humidity	Non-Condensing (See Derauing Guive)	10		95	%RH		
MTBF	MIL-HDBK-217F, 25°C, Full Load	200.000		33	Hours		
GENERAL SPECIFICATIONS	WILL FIDDIC 2171 , 20 O, 1 dil 20dd	200,000	_		Tiouis		
Typical Efficiency	230VAC Input		See Table				
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Primary-Secondary		3.0KVac: ≤10mA				
Withstand Voltage	Primary-PG		1.5KVac; ≤10mA				
ű	Secondary-PG		0.5KVDC; ≤10mA				
Isolation Resistance			100		ΜΩ		
Laskana Commant	Input-Output		≤0.25		mA		
Leakage Current	Input-PG		≤3.5		MA		
PHYSICAL SPECIFICATIONS							
Weight			17.14oz (486g)				
Dimensions (L x W x H)			5.08in x 3.87in x 1.48in				
		(12	(129mm x 98.3mm x 37.6mm)				
Cooling Method		Co	Cooling by Free Air Convection				
Packing		30r	30pcs/CTN, 14.6KGs, 0.04CBM				
SAFETY CHARACTERISTICS	2)	•	· · · · ·				
	UL60950-1 2 nd						
Safety Approvals	IEC 60950-1: 2005 2 ⁿ						
	EN60950						
EMS Emission	Compliance to E						
Harmonic Current	Compliance to EN61				Class A		
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; heavy indust	rial level					

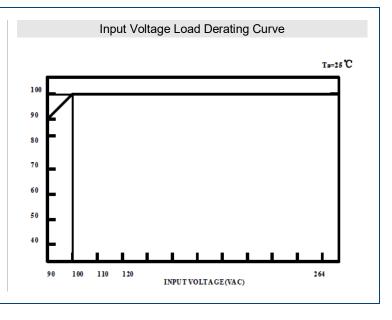
NOTES

- 1. Measured at 20MHz Bandwidth
- 2. This is considered a component that will be installed into final equipment. Equipment must be re-confirmed that it meets EMC directives.
- 3. Accessories for DIN-24 Rail Bar available. 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.

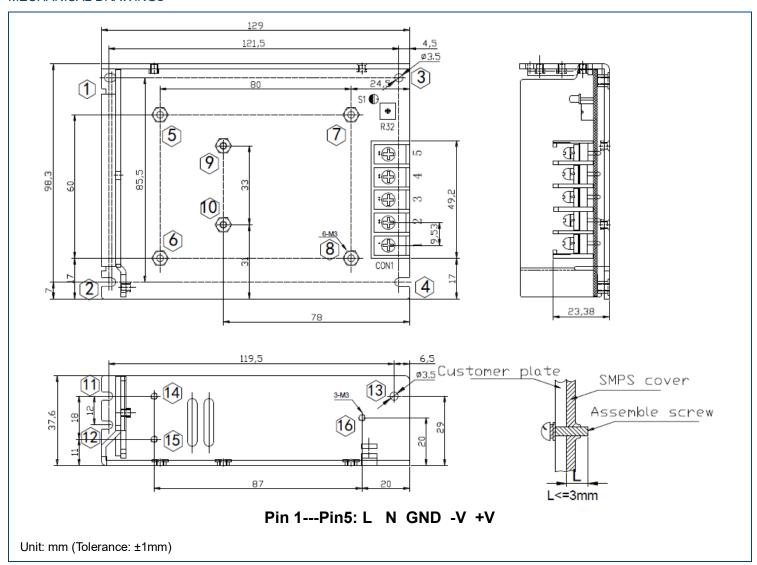
CHARACTERISTIC CURVES



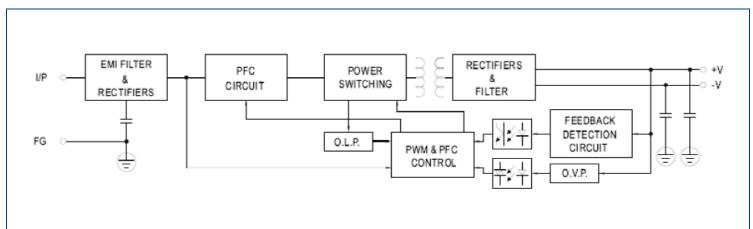




MECHANICAL DRAWINGS



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.

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