



Size: 7.05 x 3.90 x 1.18in (179 x 99 x 30mm)

FEATURES

- Universal AC Input/Full Range of 85~264VAC (120~370VDC)
- Built-In Active PFC Function
- Remote ON/OFF Control
- LED Indicator for Power On
- Built-In Constant Current Limiting Circuit
- 100% Full Load Burn-In Test
- Short Circuit, Over Load, Over Voltage, and Over Temperature Protection
- Over Voltage Category III
- Cooling by Free Air Convection
- 1U Low Profile 30mm
 - UL60950-1, TUV EN60950-1, EN61558-1, EN61558-2-16, EAC TP TC 004, and CCC GB4943.1 Safety Approvals

DESCRIPTION

The PSCPF100 series of AC/DC power supplies offers up to 102.6 watts of output power in a 7.05" x 3.90" x 1.18" enclosed package. This series consists of single output models with a universal AC input of 85~264VAC (120~370VDC). Each model in this series features remote on/off control, built-in active PFC function and constant current limiting circuit, as well as an LED indicator for power on. This series also has protection against short circuit, over load, over voltage, and over temperature conditions and UL60950-1, TUV EN60950-1, EN61558-1, EN61558-2-16, EACH TP TC 004, and CCC GB4943.1 safety approvals.

MODEL SELECTION TABLE									
Model Number	Input Voltage Range	Output Voltage	Output Current Min Load Max Load		Ripple & Noise ⁽¹⁾	Voltage Adj. Range	Rated Output Power	Over Voltage Protection	Efficiency
PSCPF100-3.3S	85~264VAC	3.3VDC	0A	20A	100mVp-p	3.14~3.63VDC	66W	3.63~4.46VDC	83%
PSCPF100-5S		5VDC	0A	20A	100mVp-p	4.75~5.5VDC	100W	5.5~6.75VDC	86%
PSCPF100-7.5S		7.5VDC	0A	13.5A	100mVp-p	7.13~8.25VDC	101.25W	8.25~10.13VDC	87%
PSCPF100-12S		12VDC	0A	8.5A	100mVp-p	11.4~13.2VDC	102W	13.2~16.2VDC	86%
PSCPF100-13.5S		13.5VDC	0A	7.5A	100mVp-p	12.8~14.9VDC	101.25W	14.85~18.23VDC	86.5%
PSCPF100-15S	(120~370VDC)	15VDC	0A	6.7A	100mVp-p	14.3~16.5VDC	100.5W	16.5~20.25VDC	87%
PSCPF100-24S		24VDC	0A	4.2A	150mVp-p	22.8~26.4VDC	100.8W	26.4~32.4VDC	87%
PSCPF100-27S		27VDC	0A	3.8A	150mVp-p	25.7~29.7VDC	102.6W	29.7~36.45VDC	87%
PSCPF100-48S		48VDC	0A	2.1A	250mVp-p	45.6~52.8VDC	100.8W	52.8~64.8VDC	88%

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	Тур	Max	Unit	
INPUT SPECIFICATIONS		,				
Input Voltage Range		85		264	VAC	
		120		370	VDC	
Frequency Range		47		63	Hz	
AC Current	115VAC		1.1			
AC Cullent	230VAC		0.55		~	
Inrush Current	230VAC, Cold Start		30		A	
Input Current						
Leakage Current	240VAC			2	mA	
Power Factor	230VAC, Full Load		>0.93			
Fower Factor	115VAC, Full Load		>0.98			
OUTPUT SPECIFICATIONS						
Output Voltage			See	Table		
Voltage Tolerance ⁽²⁾	3.3VDC, 5VDC, & 7.5VDC Models		±2.0		%	
	Other Models		±1.0		70	
Line Regulation			±0.5		%	
Load Regulation	3.3VDC, 5VDC, & 7.5VDC Models		±1.0		%	
Load Regulation	Other Models		±0.5	70		
Output Power			See	Table		
Output Current			See	Table		
Ripple & Noise ⁽¹⁾			See	Table		
Setup Time	Full Load		600		ms	
Rise Time	Full Load		30		ms	
Hold Up Time	Full Load		16		ms	
Temperature Coefficient	0~50°C		±0.05		%/°C	
Remote Control	CN1: <0~0.8VDC Power On, 4~10VDC Power Off					



SPECIFICATIONS					
All specific	ations are based on 25°C, Nominal Input Voltage, and Maximum Output Curren We reserve the right to change specifications based on technological adv	t unless of vances.	therwise n	oted.	
SPECIFICATION	TEST CONDITIONS	Min	dvT	Max	Unit
PROTECTION					
Short Circuit Protection				Yes	
Over Load Protection	Constant current limiting, recovers automatically after fault condition is removed	105		135	% Rated Output Power
	Shut down o/p voltage, re-power on to recover	See Table for Ranges			
Over Voltage Protection	Voltage Protection Over Voltage Category III; According to EN61558, EN50178, EN60664-1, EN62477-1, altitude up to 2000 meters				-
Over Temperature Protection	Shut down o/p voltage, recovers automatically after temperature goes down				
ENVIRONMENTAL SPECIFICA	ATIONS				
Working Temperature	See Derating Curve	-30		+70	°C
Storage Temperature		-40		+85	°C
Working Humidity	Non-Condensing	20		90	%RH
Storage Humidity		10		95	%RH
Vibration	10~500Hz, 2G 10min/1cycle, 60min. each along X, Y, Z axes				
MTBF	MIL-HDBK-217F. 25°C	288.5			Khours
GENERAL SPECIFICATIONS			1	1	
Efficiency			Se	e Table	
,	I/P-O/P	4KVAC			
Withstand Voltage	I/P-FG	2KVAC			
·····g-	0/P-FG	0.5KVAC			
Isolation Resistance	I/P-O/P I/P-FG O/P-FG	100MO/500VDC/25°C/70%RH			
PHYSICAL SPECIFICATIONS					
Weight			18.3	4oz (520a)
		7 05in x 3 90in x 1 18in			
Dimensions (L x W x H)		(179mm x 99mm x 30mm)			30mm)
Packing		24pcs/14 5kg/0 84CUFT			
SAFETY CHARACTERISTICS					
	UI 60950-1 ⁽⁶⁾				
	TUV EN60950-1				
	EN61558-1				
Safety Approvals	EN61558-2-16				
	EAC TP TC 004				
	CCC GB4943.1				
	EN55032 (CISPR32)				Class B
	EN61000-3-2,-3				
EMC Emission	EAC TP TC 020	FC 020			
	GB9254	54 Class E			
	GB17625.1				
	EN61000-4-2, 3, 4, 5, 6, 8, 11				
	EN55024				
EMC Immunity	Light Industry Level				
-	Criteria A				
	EAC TP TC 020				

NOTES

1. Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

2. Tolerance includes set up tolerance, line regulation, and load regulation.

3. The power supply is considered a component which will be installed into final equipment. Final equipment must be re-confirmed that it still meets EMC directives.

4. It is strongly recommended that external output capacitances should not exceed 5000uF (only for 3.3VDC, 5VDC, and 7.5VDC models)

5. Ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m (6500ft).

6. This product is listed to applicable standards and requirements by UL.

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



DERATING CURVES -



Rev B

BLOCK DIAGRAM





MECHANICAL DRAWINGS



Rev B

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:

Phone:	2 (603)778-2300
Toll Free:	2 (888)597-9255
Fax:	2 (603)778-9797
E-mail:	sales@wallindustries.com
Web:	www.wallindustries.com
Address:	37 Industrial Drive
	Exeter, NH 03833

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