



Size:

4.12 x 2.07 x 1.06 inches 104.7 x 52.6 x 27.0 mm

FEATURES

- RoHS Compliant
- 75.6 Watts Output Power
- Double Layered PCB
- Single Outputs
- PFC Function, PF > 0.9
- Up to 90% High Efficiency
- Free Air Convection Cooling
- op to 50% riight Emelency
- MTBF > 450,000 Hours
- -30°C~+70°C Operating Temperature Range
- Open Frame LED Power Supply
- 90-295VAC Input Voltage Range
- Constant Current and Constant Voltage (CC & CV) Modes
- Short Circuit, Over Load, and Over Voltage Protection
- UL8750, IEC/EN 61347-2-13, and IEC/EN 61347-1 Approvals

DESCRIPTION

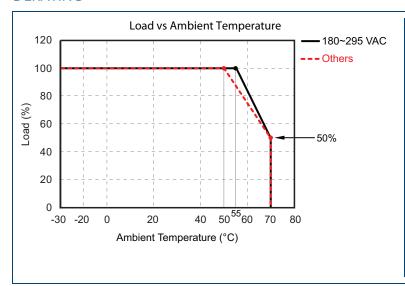
The PSZLF75 series of AC/DC switching power supplies provides up to 75.6 Watts of output power in an ultra compact 4.12" x 2.07" x 1.06" open frame package. This series consists of single output models with an input voltage range of 90-295VAC. Some features include high efficiency up to 90%, power factor > 0.9, and short circuit, over load, and over voltage protection. The PSZLF75 series has both constant current (CC) and constant voltage (CV) modes available and is suitable for LED lighting applications. This series is also RoHS compliant and has UL8750, IEC/EN 61347-1, and IEC/EN 61347-2-13 safety approvals.

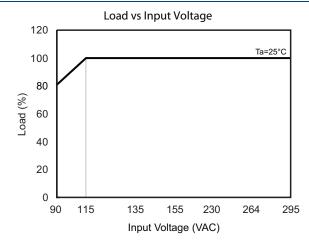
MODEL SELECTION TABLE							
Model Number	Input Voltage Range	Output Voltage (2)	Ou Min	tput Current Max	Output Power	Ripple & Noise (1)	Efficiency
PSZLF75-24S	90 ~ 295 VAC	24 VDC (15.6~24 VDC)	2.0 A	2.8 A (2.0~3.15 A)	75.6 W	2.7Vp-p	89%
PSZLF75-36S		36 VDC (23.4~36 VDC)	1.35 A	2.1 A (1.35~2.1 A)	75.6 W	5Vp-p	90%
PSZLF75-48S		48 VDC (36~48 VDC)	1.0 A	1.4 A (1.0~1.57 A)	75.36 W	5Vp-p	89%
PSZLF75-54S		54 VDC (35.1~54 VDC)	0.9 A	1.4 A (0.9~1.4 A)	75.6 W	5Vp-p	90%

NOTES

- 1. Measured at 20MHz BW and with 0.1 μF and 47 μF capacitors in parallel.
- 2. Input Voltage = 115VAC or 230VAC. This is suitable operation region for LED related applications but please reconfirm special electrical requirements for some specific system designs.

DERATING -





Note: If the output is not connected to LEDs, the input voltage must be greater than 180VAC



SPECIFICATIONS: PSZLF75 SERIES

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.

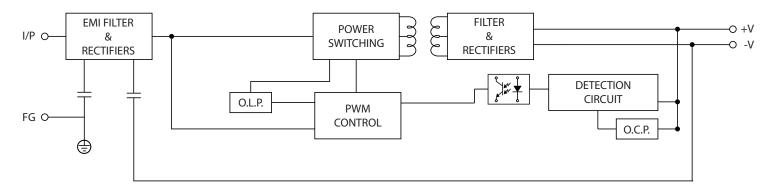
We reserve the right to change specifications based on technological advances.

NRUT SPECIFICATIONS 90 295 NAC Input Frequency 10 50/00 Hz Input Current At 115 VAC and full load 111 1 111 111 111 Input Current At 1230 VAC and full load 111 1 111 Input Current 1230 VAC and full load 0.9 50/00 Hz Input Current 1230 VAC and full load 0.9 50/00 Hz Input Current 1230 VAC and full load 0.9 50/00 February Fe	SPECIFICATION	VVE	e reserve the right to change spec		.nnological advances.	Min	Typ	Max	Unit	
Input Focusion 90			IE3	I CONDITIONS		IVIII	Тур	IVIdX	Unit	
Imput Frequency						00		205	\/AC	
Imput Current						90	50/60	295		
March Marc	Input Frequency		4.445.446						HZ	
Incush Current Art 200 VAC and full load	Input Current						-		Α	
Power Factor	•		At 230 VAC and full load				0.55			
OUTPUT SPECIFICATIONS								45	Α	
See Table SULTPS-245 22 6.5 5.5	Power Factor		At 115/230 VAC and full load			0.9				
PSZLF75-245 22 26.5 VDC VD	OUTPUT SPECIFICATION	NS .								
PSZLF75-865 33 39.5 VDC PSZLF75-885 44 51.5 PSZLF75-885 92.21.75-885 92.21.75-885 92.21.75-885 92.21.75-885 92.21.75-885 92.21.75-885 92.21.75-885 92.21.75-885 92.24 36.0 92.24 92.	Output Voltage						See	Гable		
PSZLF75-84S			PSZLF75-24S			22		26.5		
PSZLF75-84S	Voltage Adjustment Set	tup	PSZLF75-36S			33		39.5	\/D.C	
PSZLF75-245 See Note 2	(CV Mode)		PSZLF75-48S			44		51.5	VDC	
PSZLF75-245 See Note 2			PSZLF75-54S			49		55		
PSZLF75-365 See Note 2						15.6				
PSZLF75-845 See Note 2 36 48 W.C.	Constant Current Onera	ation Voltage								
PSZLF75-S4S 35.1 54 54 54 54 54 54 54 5		ition voitage		See Note 2					VDC	
Voltage Tolerance	(ce mode)									
PSZLF75-24S	Valta na Talanan sa		F3ZLF73-343					_	0/	
PSZLF75-365	voltage Tolerance		DC71 F7F 24C			-10	2.0	+10	90	
CCC Mode PSZLF75-485	_									
CLC Mode PSZLF75-485				At 230 VAC					Α	
PSZLF75-245 2.0 3.15 A CUrrent Adjustment Range PSZLF75-365 1.35 2.10 A A CUrrent Adjustment Range PSZLF75-485 1.0 1.57 A A A CURRENT Adjustment Range PSZLF75-485 1.0 1.57 A A A CURRENT Adjustment Range PSZLF75-485 1.0 1.57 A A A A A A A A A	(CC Mode)						-			
P2LE75-365 1.35 2.10 A CCC Mode) P3LE75-365 1.0 1.57 P3LE75-545 1.0 1.0 1.0 P3LE75-545 1.0 1.0 P3LE75-545 1							1.4			
PSZLF75-48S 1.0 1.57 Minimum Load See Table			PSZLF75-24S			2.0		3.15		
CLC Mode PSZLF75-48S 1.0 1.57 PSZLF75-54S 0.9 1.4	Current Adjustment Ran	nge	PSZLF75-36S			1.35		2.10		
Minimum Load LL to HL Lt to HL Min load to max load Min load to	(CC Mode)		PSZLF75-48S			1.0		1.57	А	
Lit o HL to HL			PSZLF75-54S	PSZLF75-54S		0.9		1.4		
Lit o HL to HL	Minimum Load						See -	Гable		
Min load to max load ±5 %			LL to HL						%	
See Table See							+5		%	
Ripple & Noise			Will load to max load						,,,	
Temperature Coefficient	·									
PROTECTION Short Circuit Protection auto-recovery Over Voltage Protection auto-recovery Over Current Protection auto-recovery GENERAL SPECIFICATIONS Efficiency At 230 VAC and full load See Table Input to Output Input to FG Output To FG			0~50°C			-0.02	500		0/s/°C	
Short Circuit Protection			0 · 50 C			0.02		10.02	70/ C	
Over Voltage Protection Zener diode clamp Over Current Protection auto-recovery GENERAL SPECIFICATIONS Efficiency At 230 VAC and full load See Table Input to Output Input to FG Output to FG 1880 VAC Leakage Current At 240 VAC 0,7 mA ENVIRONMENTAL SPECIFICATIONS Operating Temperature With derating (see derating curve) -30 +70 °C Humidity -30 +70 °C Cooling Free air convection MTBF 25°C (MIL-HDBK-217F) 450,000 hours PHYSICAL SPECIFICATIONS Weight 6.880z (195g) Dimensions (L x W x H) 6.880z (195g) A12 x 2.07 x 1.06 inches (104.7 x 52.6 x 27.0 mm) SAFETY & EMC Safety & Approvals U.8750, IEC / EN 61347-2-13, IEC / EN 61347-1 <							a			
At 230 VAC and full load See Table										
### At 230 VAC and full load See Table See Table Input to Output Input to FG Output								•		
Input to Output							auto-re	ecovery		
Input to Output Input to FG		NS								
Input to FG	Efficiency		At 230 VAC and full load				See	Гable		
Output to FG 500 Leakage Current At 240 VAC 0.7 mA ENVIRONMENTAL SPECIFICATIONS Operating Temperature With derating (see derating curve) -30 +70 °C Storage Temperature -40 +85 °C Humidity 95 % RH Cooling Free air convection MTBF 25°C (MIL-HDBK-217F) 450,000 hourspan="2">hourspan="2">hourspan="2">hourspan="2">hourspan="2">HYSICAL SPECIFICATIONS Weight Dimensions (L x W x H) 6.88oz (195g) Dimensions (L x W x H) 4.12 x 2.07 x 1.06 inches (104.7 x 52.6 x 27.0 mm) SAFETY & EMC Safety Approvals UL8750, IEC / EN 61347-2-13, IEC / EN 61347-1 EMI (Conducted and Radiated Emissions) EN 55015 EMS (Noise Immunity) EN 61500-3-2 (at full load), EN 61000-3-3		Input to Output				3750				
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Leakage Current At 240 VAC 0.7 mA ENVIRONMENTAL SPECIFICATIONS Operating Temperature With derating (see derating curve) -30 +70 °C Storage Temperature -40 +85 °C Humidity 95 % RH Cooling Free air convection MTBF 25°C (MIL-HDBK-217F) 450,000 hours PHYSICAL SPECIFICATIONS Weight 6.88oz (195g) Dimensions (L x W x H) 4.12 x 2.07 x 1.06 inches (104.7 x 52.6 x 27.0 mm) SAFETY & EMC Safety Approvals UL8750, IEC / EN 61347-2-13, IEC / EN 61347-1 EMI (Conducted and Radiated Emissions) EM 55015 EMS (Noise Immunity) Harmonic Current EN61000-3-2 (at full load), EN 61000-3-3		Output to FG	At 240 VAC			500				
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Humidity Cooling Free air convection MTBF 25°C (MIL-HDBK-217F) Hours PHYSICAL SPECIFICATIONS Weight SAFETY & EMC Safety Approvals EMI (Conducted and Radiated Emissions) EMS (Noise Immunity) Harmonic Current 95			a. a	-,						
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EMI (Conducted and Radiated Emissions) EMS (Noise Immunity) EN61547 Harmonic Current EN61000-3-2 (at full load), EN 61000-3-3										
EMS (Noise Immunity) EN61547 Harmonic Current EN61000-3-2 (at full load), EN 61000-3-3	Safety Approvals				UL	_8750, IEC /			N 61347-1	
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Harmonic Current EN61000-3-2 (at full load), EN 61000-3-3	EMS (Noise Immunity)		EN61547							
	Harmonic Current		EN61000-3-2 (at full load), EN 61000-3-				1000-3-3			
	Surge									

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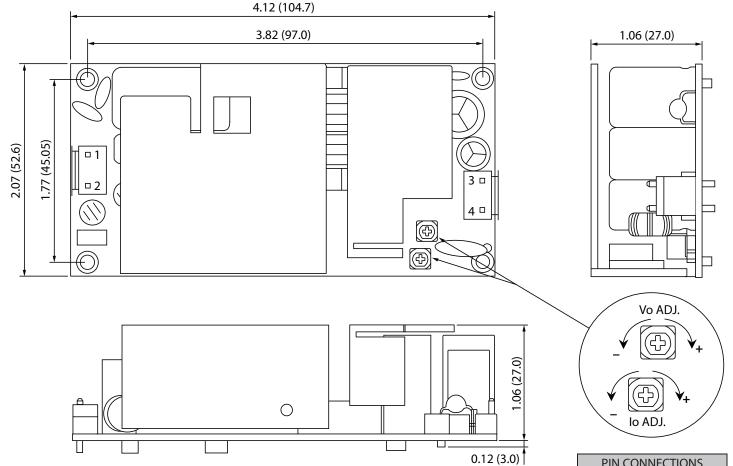


BLOCK DIAGRAM



MECHANICAL DRAWING

Unit: inches (mm)



NOTES:

1. Tolerance: ±0.04" (±1mm)

2. Weight: 6.88oz (195g)

3. All dimensions are for reference only

FIIN	COMMECTIONS
Pin	Assignment
1	AC IN (N)
2	AC IN (L)
3	+DC OUT
4	-DC OUT



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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