



Size:
6.61 x 1.67 x 1.22 inches
168.0 x 42.5 x 31.0 mm



FEATURES

- Class I
- RoHS Compliant
- IP67 Rated
- C.C. Mode and C.V. Mode
- Constant Current: 0.84~5.45A
- Constant Voltage: 11~58VDC
- Active Power Factor Correction
- 60 Watts Maximum Output Power
- Wide Input Voltage Range: 90~305VAC, 47~63Hz
- Internal EMI Filter
- Over Voltage, Over Current, & Over Temp. Protection
- Up to 90% High Efficiency

DESCRIPTION

The PLSU60 series of AC/DC LED switching power supplies provides a maximum power rating of 60W, with constant current ratings ranging from 0.84~5.45A and constant voltage ranging from 11~58VDC. These supplies have a 90-305VAC input voltage range, active PFC, an internal EMI filter, and high efficiency up to 90%. These supplies are housed in a 6.61" x 1.67" x 1.22" enclosure, rated to IP67 waterproof standards, which makes them suitable for harsh environments in industrial or commercial outdoor lighting applications. This series is RoHS compliant and has over voltage, over current, and over temperature protection.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage ⁽¹⁾	Output Current	Ripple & Noise	Load Regulation		Output Power
					C.C.	C.V.	
PSLSU60-105-11V	90 ~ 305 VAC	11 VDC	0 ~ 5.45 A	1%	3%	3%	60W
PSLSU60-105-12V		12 VDC	0 ~ 5.00 A	1%	3%	3%	60W
PSLSU60-105-13V		13 VDC	0 ~ 4.61 A	1%	3%	3%	60W
PSLSU60-107-16V	90 ~ 305 VAC	16 VDC	0 ~ 3.75 A	1%	3%	3%	60W
PSLSU60-107-17V		17 VDC	0 ~ 3.52 A	1%	3%	3%	60W
PSLSU60-107-18V		18 VDC	0 ~ 3.33 A	1%	3%	3%	60W
PSLSU60-107-19V		19 VDC	0 ~ 3.15 A	1%	3%	3%	60W
PSLSU60-107-20V		20 VDC	0 ~ 3.00 A	1%	3%	3%	60W
PSLSU60-107-21V		21 VDC	0 ~ 2.85 A	1%	3%	3%	60W
PSLSU60-108-21V	90 ~ 305 VAC	21 VDC	0 ~ 2.85 A	1%	3%	3%	60W
PSLSU60-108-22V		22 VDC	0 ~ 2.72 A	1%	3%	3%	60W
PSLSU60-108-23V		23 VDC	0 ~ 2.60 A	1%	3%	3%	60W
PSLSU60-108-24V		24 VDC	0 ~ 2.50 A	1%	3%	3%	60W
PSLSU60-108-25V		25 VDC	0 ~ 2.40 A	1%	3%	3%	60W
PSLSU60-108-26V		26 VDC	0 ~ 2.30 A	1%	3%	3%	60W
PSLSU60-108-27V		27 VDC	0 ~ 2.22 A	1%	3%	3%	60W
PSLSU60-111-40V	90 ~ 305 VAC	40 VDC	0 ~ 1.50 A	1%	3%	3%	60W
PSLSU60-111-41V		41 VDC	0 ~ 1.46 A	1%	3%	3%	60W
PSLSU60-111-42V		42 VDC	0 ~ 1.42 A	1%	3%	3%	60W
PSLSU60-111-43V		43 VDC	0 ~ 1.39 A	1%	3%	3%	60W
PSLSU60-111-44V		44 VDC	0 ~ 1.36 A	1%	3%	3%	60W
PSLSU60-111-45V		45 VDC	0 ~ 1.33 A	1%	3%	3%	60W
PSLSU60-111-46V		46 VDC	0 ~ 1.30 A	1%	3%	3%	60W
PSLSU60-111-47V		47 VDC	0 ~ 1.27 A	1%	3%	3%	60W
PSLSU60-111-48V		48 VDC	0 ~ 1.25 A	1%	3%	3%	60W
PSLSU60-111-49V		49 VDC	0 ~ 1.22 A	1%	3%	3%	60W
PSLSU60-111-50V	50 VDC	0 ~ 1.20 A	1%	3%	3%	60W	
PSLSU60-112-50V	90 ~ 305 VAC	50 VDC	0 ~ 1.20 A	1%	3%	3%	60W
PSLSU60-112-51V		51 VDC	0 ~ 1.17 A	1%	3%	3%	60W
PSLSU60-112-52V		52 VDC	0 ~ 1.15 A	1%	3%	3%	60W
PSLSU60-112-53V		53 VDC	0 ~ 1.13 A	1%	3%	3%	60W
PSLSU60-112-54V		54 VDC	0 ~ 1.11 A	1%	3%	3%	60W
PSLSU60-112-55V		55 VDC	0 ~ 1.09 A	1%	3%	3%	60W
PSLSU60-112-56V		56 VDC	0 ~ 1.07 A	1%	3%	3%	60W
PSLSU60-112-57V		57 VDC	0 ~ 1.05 A	1%	3%	3%	60W
PSLSU60-112-58V	58 VDC	0 ~ 1.03 A	1%	3%	3%	60W	

NOTES

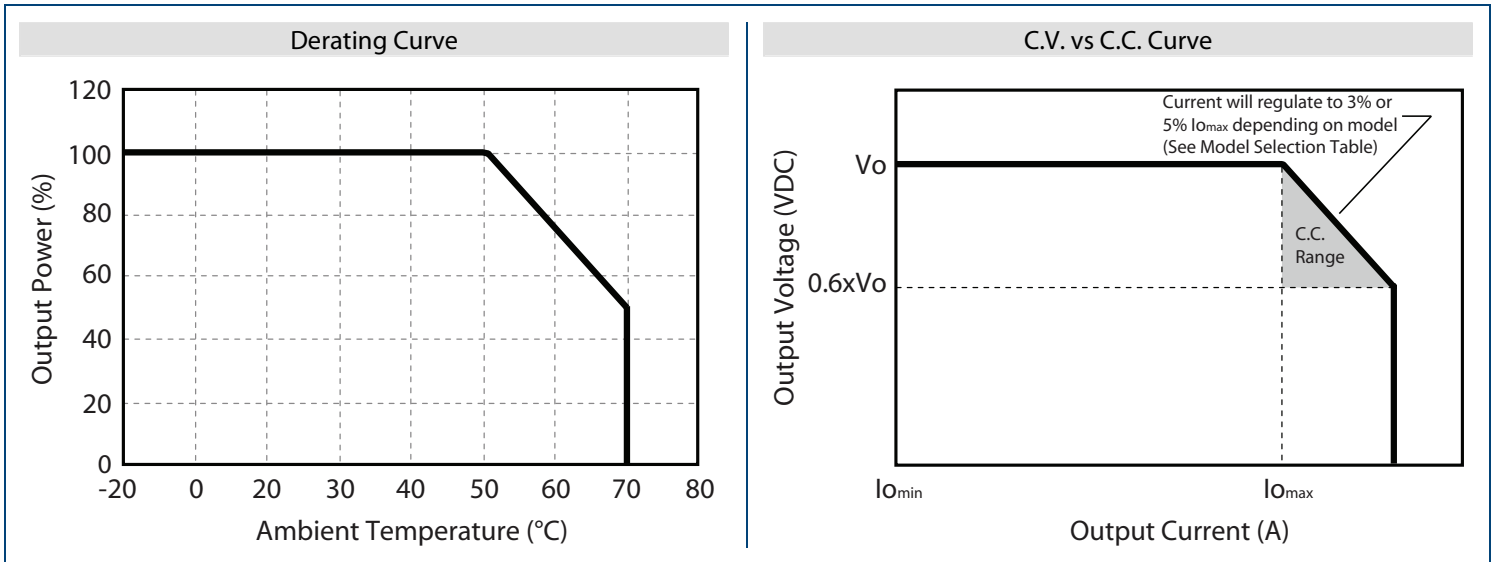
1. For constant current (C.C.) mode, the output voltage will vary from Vo to 0.6 x Vo (See C.V. vs C.C. curve on page 3).

SPECIFICATIONS: PLSU60 SERIES

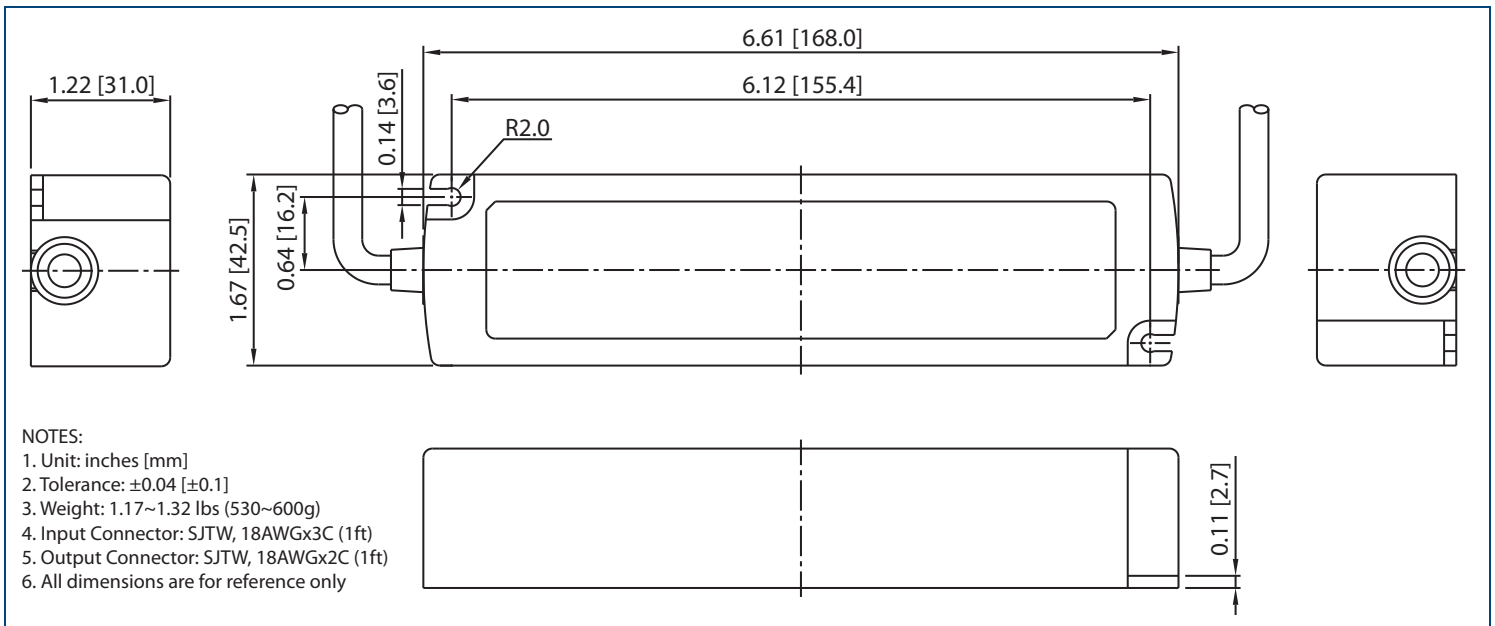
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Nom	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range	Safety Approvals Input Voltage Range	100		277	VAC
	Operating Input Voltage Range	90		305	
Input Frequency		47		63	Hz
Input Current	Io = Full Load, Vin = 100VAC		1.0		A
	Io = Full Load, Vin = 240VAC		0.4		
Inrush Current	Io = Full Load, 25°C, Cold Start, Vin = 115VAC			35	A
	Io = Full Load, 25°C, Cold Start, Vin = 230VAC			70	
No Load Power Consumption	Io = No Load, Vin = 230VAC			1	W
Power Factor Correction (PFC)	Io = Full Load, Vin = 90~280VAC	0.90		1.0	
OUTPUT SPECIFICATIONS					
Output Voltage Range	See Note 1	See Table			
Output Current Range		See Table			
Output Power				60	W
Load Regulation	Vin = 230VAC		3		%
Line Regulation	Io = Full Load	0.5		1	%
Ripple & Noise (peak to peak)	Full Load, Vin = 90VAC			1	%
Transient Response Time	Full Load to Half Load, Vin = 100VAC			4	ms
Hold-Up Time (C.V. Mode)	Io = Full Load, Vin = 110VAC	8			ms
Start-Up Time	Io = Full Load, Vin = 100VAC			1	s
Temperature Coefficient		-0.04		+0.04	%/°C
PROTECTION					
Over Voltage Protection		103		105	%
Over Current Protection	C.C. Mode	103		105	%
	C.V. Mode	140		180	
Over Temperature Protection		optional			
GENERAL SPECIFICATIONS					
Efficiency	Io = Full Load, Vin = 230VAC	84		90	%
Dielectric Withstanding Voltage	Primary to Secondary	4242			VDC
	Primary to PE	2121			
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Safety Ground Leakage Current	Vin = 240VAC/60Hz			0.75	mA
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derating linearly from 100% Load at 50°C to 50% load at 70°C	-20		+70	°C
Storage Temperature		-40		+85	°C
Operating Humidity		0		95	%
Storage Humidity		0		95	%
Cooling		Free air convection			
MTBF	Operating Temperature at 25°C, calculated per MIL-HDBK-217F	100,000			hours
PHYSICAL SPECIFICATIONS					
Case Material		Plastic			
Input Connector		SJTW, 18AWGx3C (1ft)			
Output Connector		SJTW, 18AWGx2C (1ft)			
Weight		Approx. 1.17~1.32 lbs (530~600g)			
Dimensions (L x W x H)		6.61 x 1.67 x 1.22 in (168.0 x 42.5 x 31.0 mm)			
SAFETY					
Safety Approvals	UL/cUL	UL8750: 1st edition			
	TUV	EN/IEC61347-1:2008, EN/IEC61347-2-13:2006			
	CE-EMC	EN55015: 2006 & EN61547: 1995+A1:2000			

CHARACTERISTIC CURVES



MECHANICAL DRAWING



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.

Contact **Wall Industries** for further information:

Phone: ☎(603)778-2300
Toll Free: ☎(888)597-9255
Fax: ☎(603)778-9797

E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833