



Size: 9.65in x 1.90in x 1.50in (245.2mm x 48mm x 38mm)

FEATURES

- Input Voltage Range of 120~277VAC
- Constant Voltage LED Driver
- IP67 Design For Wet Locations
- RoHS Compliant
- Over Voltage, Over Current, Over Temperature and Short Circuit Protection
- High Efficiency
- UL8750 Approvals (Pending for 15V)

DESCRIPTION

The PSLHE100 series of constant voltage LED drivers offers up to 100 watts of output power in a 9.65" x 1.90" x 1.50" package. This series consists of single output models with an input voltage range of 120~277VAC. Each model features IP67 design for wet locations, high efficiency, and over voltage, over current, over temperature, and short circuit protections. The 12V, 24V, and 36V models in this series have UL8750 approvals and all models are RoHS compliant.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	OCV	Output Current		Ripple & Noise	Typical Efficiency			Max. Output Power
				Min Load	Max Load		@ 120V	@240V	@277V	
PSLHE100-12S	120~277VAC	12V	13V	0	8.33A	<3%pk-pk	86%	87%	87%	100W
PSLHE100-15S		15V	-	0	6.60A		-	-	-	
PSLHE100-24S		24V	25V	0	4.15A		87%	88%	88%	
PSLHE100-36S		36V	37V	0	2.75A		87%	88%	88%	

SPECIFICATIONS

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	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		120		277	VAC
Input Frequency			±10		%
Inrush Current	@230V		50/60		Hz
Input Current	@120V		20	0.99	A
	@240V			0.50	A
	@277V			0.43	A
Power Factor	Under 120~277VAC Input with 80~100% Load Condition (for all output voltages)	0.9			
THD	Under 120~277VAC Input with 80~100% Load Conditions (for all output voltages)			20	%
Leakage Current	@277VAC/60Hz Input			0.5	mA
OUTPUT SPECIFICATIONS					
Output Voltage			See Table		
Voltage Tolerance	@Full Load Condition		±5		%
Line Regulation			±1		%
Load Regulation			±2		%
Output Power			See Table		
Output Current			See Table		
No Load Power Consumption				2	W
Ripple & Noise				3	%pk-pk
Turn-On Delay Time	@Full Load Condition			2	s
Overshoot	@Full Load Condition			10	%
PROTECTION					
Short Circuit Protection	Hiccup Mode. Protection will trigger when short circuits and will automatically recover after the fault mode is removed.				
Over Current Protection	Hiccup mode. Protection will trigger when load current exceeds specified output current and will automatically recover when fault mode is removed.				
Over Voltage Protection	Hiccup mode. Protection will trigger when load voltage exceeds specified output voltage and will automatically recover when fault mode is removed.				

Over Temperature Protection	Protection will trigger when driver overheats and will automatically recover when cooled down.	
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SPECIFICATIONS

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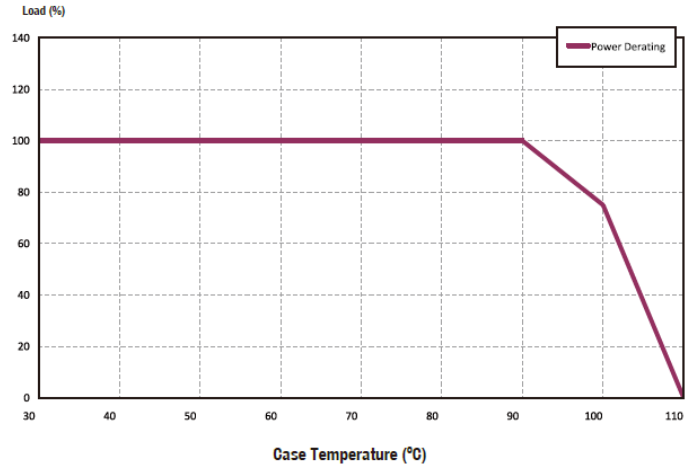
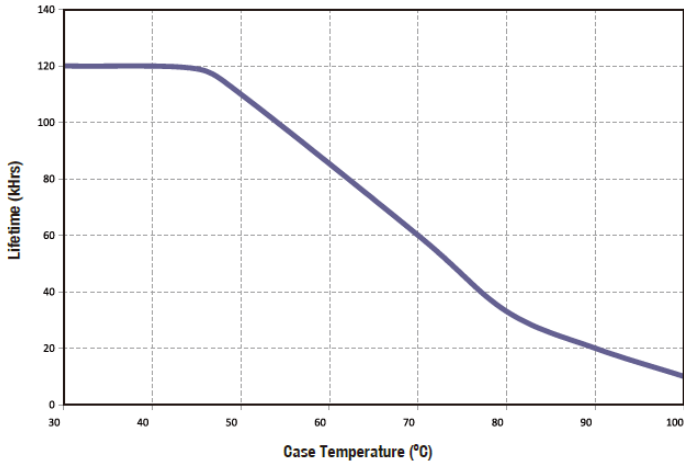
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		-40		60	°C
Storage Temperature		-40		85	°C
Maximum Case Temperature				90	°C
Humidity		5		95	%
Life Rating	@ 120VAC Input, 100% Load & 60°C Case Temperature		85,000		Hours
MTBF	@ 40°C Ambient (~70°C Case Temp)		258,000		Hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Withstand Voltage	Input to Output	2800VDC, 2mA			
PHYSICAL SPECIFICATIONS					
Weight		24.69oz (700g)			
Dimensions (L x W x H)		9.65in x 1.90in x 1.50in (245.2mm x 48mm x 38mm)			
Mounting Dimensions		9.04in (230mm)			
Remote Mounting Distance	#18 AWG	12V Models	4ft		
		24V Models	9ft		
		36V Models	13ft		
Input Wire		12", UL rated SJTW #18AWG x 3C			
Output		12", UL rated SJTW #18AWG x 2C			
SAFETY CHARACTERISTICS					
Safety Approvals	UL/cUL	UL 8750 (Pending for 15V)			
	CE	EN61347-1, EN61347-2-13			
	FCC, 47CFR Part 15	ANSI C63.4: 2009			
	EN61000-3-2	Harmonic Current Emissions			
Class	PSLHE100-24S & PSLHE100-36S	US & Canada			Class C Class 2

NOTES

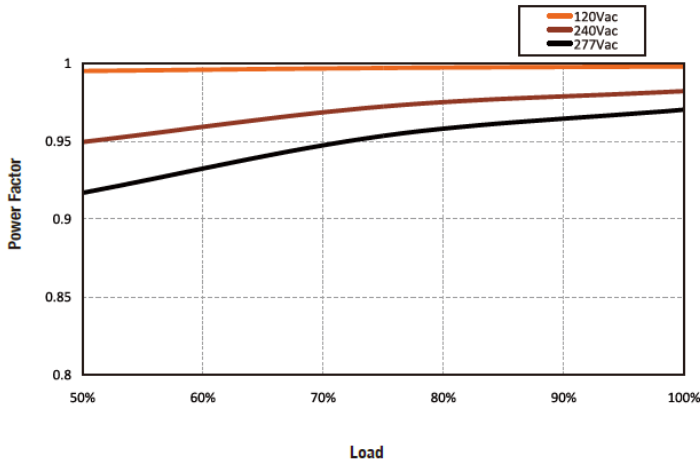
*Due to advances in technology, specifications subject to change without notice.

CHARACTERISTIC CURVES

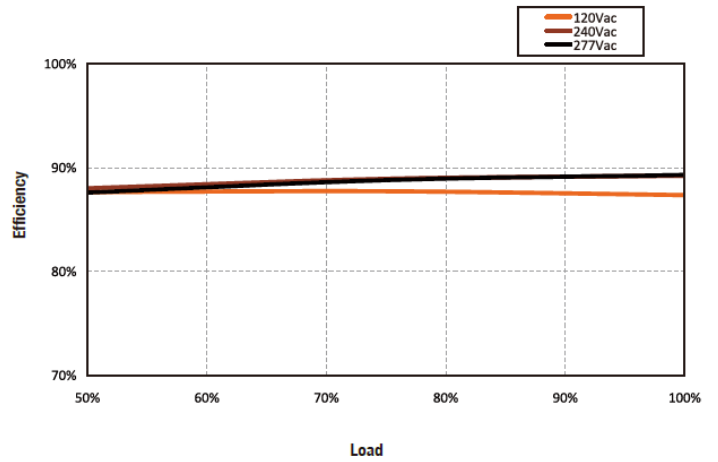
Lifetime vs. Case Temperature	Power Derating vs. Case Temperature
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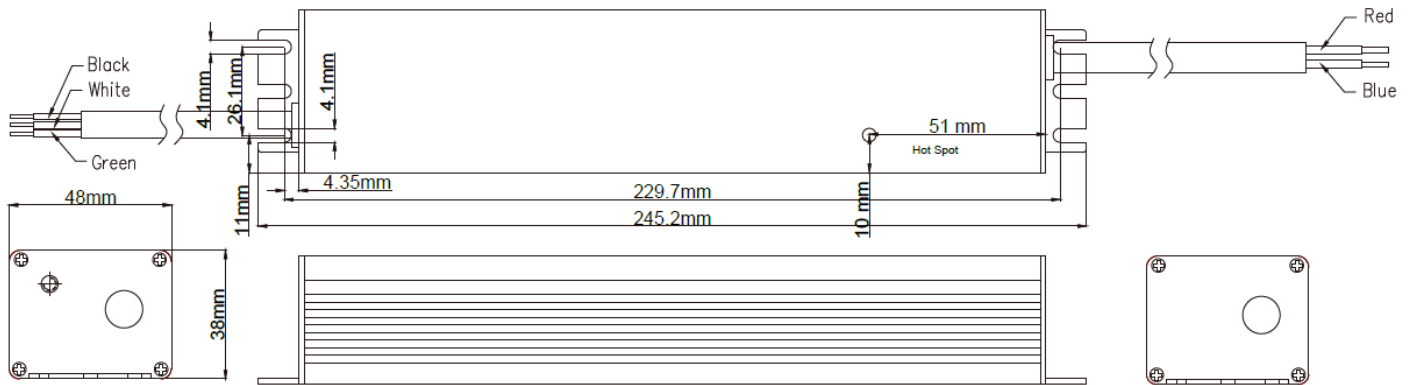
Power Factor vs. Load
 PSLHE100-24S



Efficiency vs. Load
 PSLHE100-24S

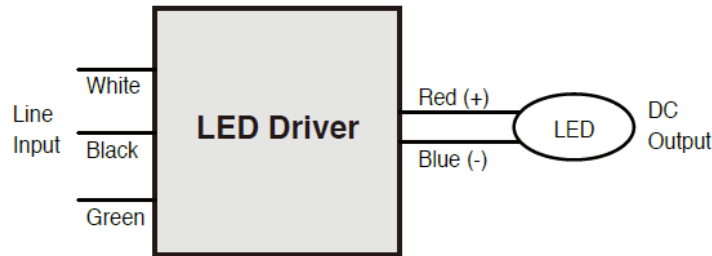


MECHANICAL DRAWINGS



Input Wire: 12", UL rated SJTW #18AWG x 3C
 Output Wire: 12", UL rated SJTW #18AWG x 2C

Wiring 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 ISO9001-2008 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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