



SLV 100-SI

Contant Voltage LED Drivers



Model Selection Key

SLV100-ABBV-SI

Housing Type
Nominal Output Voltage
Number of Output Channel(s)
Series Name

Plug-and-Play 100W Contant Voltage LED Driver

The SLV 100 -SI series is a UL Class 2 100 Watt LED driver series with constant voltage output. 12 V auxillary cable output options are available for connection with IoT sensors or active cooling devices. This series can be easily upgraded with dimming options by combining with any of GRE Alpha's dimming module accessories for information, please visit (<https://grealpha.com/products/led-dimming-modules/>).

Features

- UL LED Driver , enabling drastically reduced approval times and agency approval costs.
Wide Input Voltage: 90-305 VAC
- Extremely Low operating temperature - 40°C to 60°C
- SCP, OCP, OTP, OVP
- UL Class P
- UL Type HL
- 3 Years Warranty

Applications

- Architectural Lighting
- Effect & Contour Lighting
- Office General Illumination
- Warehouses
- Street Lighting
- Signage
- Strip Lighting
- Swimming Pools/Fountain lighting
- Horticultural Lighting

Model Number	Input Voltage Range (V _{ac})	Channel(s) Output	Preset Vout (V _{dc})	Load Range (per Channel) (A)		Max Output Power (per Channel) (W)	Total Output Power (W)
				min	max		
SLV100-112V-SI	100-277	1	12	0	8.33	100	100
SLV100-112V-SI(A)	100-277	1	12	0	8.33	100	100
SLV100-124V-SI	100-277	1	24	0	4.20	100	100
SLV100-124V-SI(A)	100-277	1	24	0	4.20	100	100
SLV100-148V-SI	100-277	1	48	0	2.10	100	100
SLV100-148V-SI(A)	100-277	1	48	0	2.10	100	100

SI =Waterproof standard aluminum housing

(A) - With 12V 300mA Auxiliary Output

Input Specification

Voltage Range	Frequency Range	Max Inrush Current	Power Factor	THD
100-277 VAC	50-60 Hz	35A@120 VAC input, 25°C, cold start-up	0.9 min @100-277 VAC, Full load	<15% @ full load

Output Specification

Max Power	100 W	Transient Response	8 mS, full load to 40% load, 100 VAC Input
Line Regulation	+/- 1% Max	Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition.
Efficiency	Up to 92%	Constant Voltage (CV) Mode Load Regulation	+/- 5% Max
Noise/Ripple	<2% of Rated Output Voltage*	Over Current Protection	Constant-current limiting
Hold-up Time	0.5 mS @ full load, 100VAC input	Start-up Time	0.5 sec. Typical@ start-up to full load, 120VAC input
Auxiliary Output	12V 300mA	Over Temp. Protection	Auto Recovery upon operating temperature

* All noise measurements made at the output terminals, connected to a 20MHz low pass filter.

Environmental Specifications

MTBF	Cooling	Operating Temp	Storage Temp	Relative Humidity
100,000 hours (Full load @ 25°C Ambient, Based on MIL-217F)	Convection	-40°C to 60°C (Full load)	-40°C to 85°C	5% to 95 %

Compliance / Safety

EMI/RFI:	CISPR-22 Class B FCC part 15 Class B EN 55015
Safety Standards:	UL1012/1585, UL8750,UL879, UL Class 2,Class P, Type HL UL 48,cUL, CE, UL #: E342485 EN 61347-2-13, CCC, PSE
Weatherability:	EN60529 IP 65
Surge Immunity	Line - Line: 2.5kV Line - Earth: 4kV

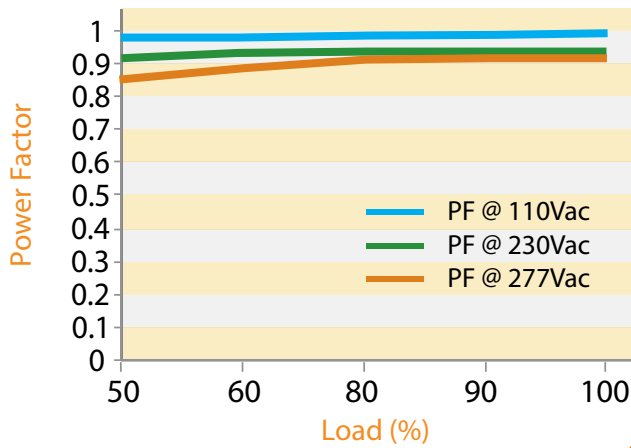
INPUT		SJTW 18AWG
OUTPUT (Standard)		12V: SJTW 16AWG 24V: SJTW 18AWG 48V: SJTW 18AWG
OUTPUT (Auxiliary)		UL2464 rated, 22AWG

Mechanical

Material:
NEMA 3 Design with aluminum extruded enclosure, with IP65 waterproof, fully potted PCB.
Dimennsions:
195.4(L)*60.7(W)*37.1(H)mm

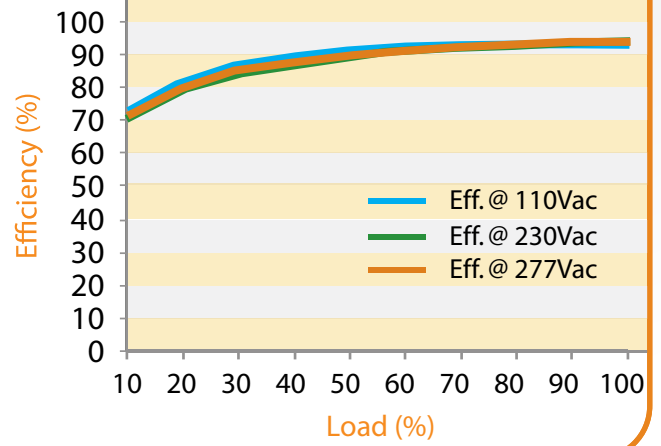
Reliabilities Curves

Power Factor Characteristic

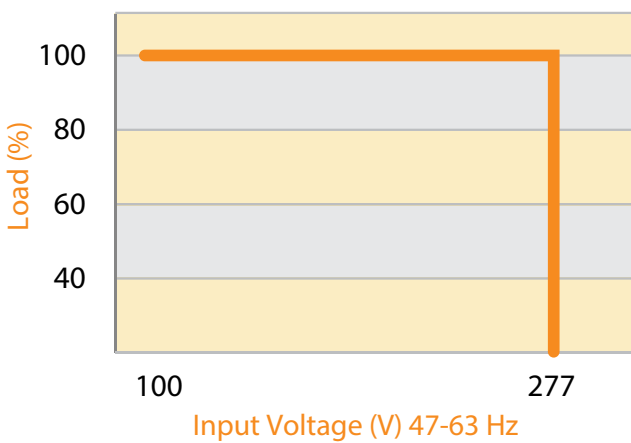


Efficiency Vs Load

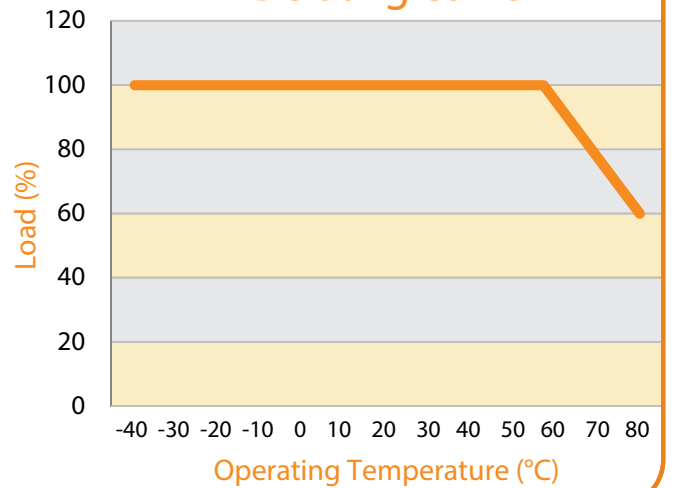
(SLV100-124V-SI Model)



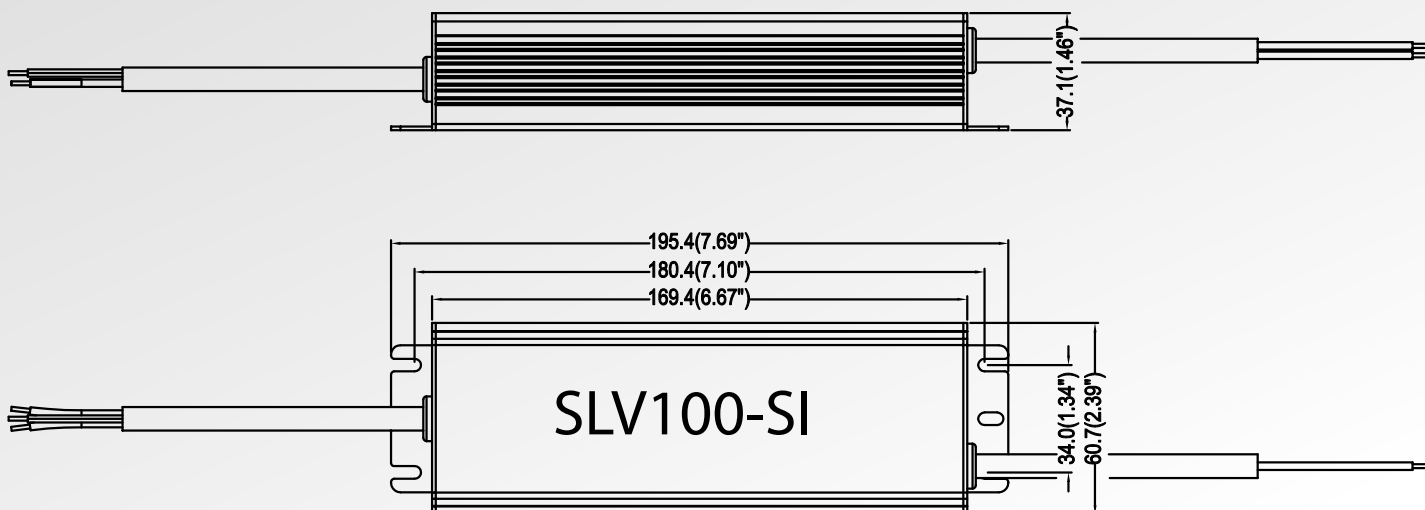
Loading Curve



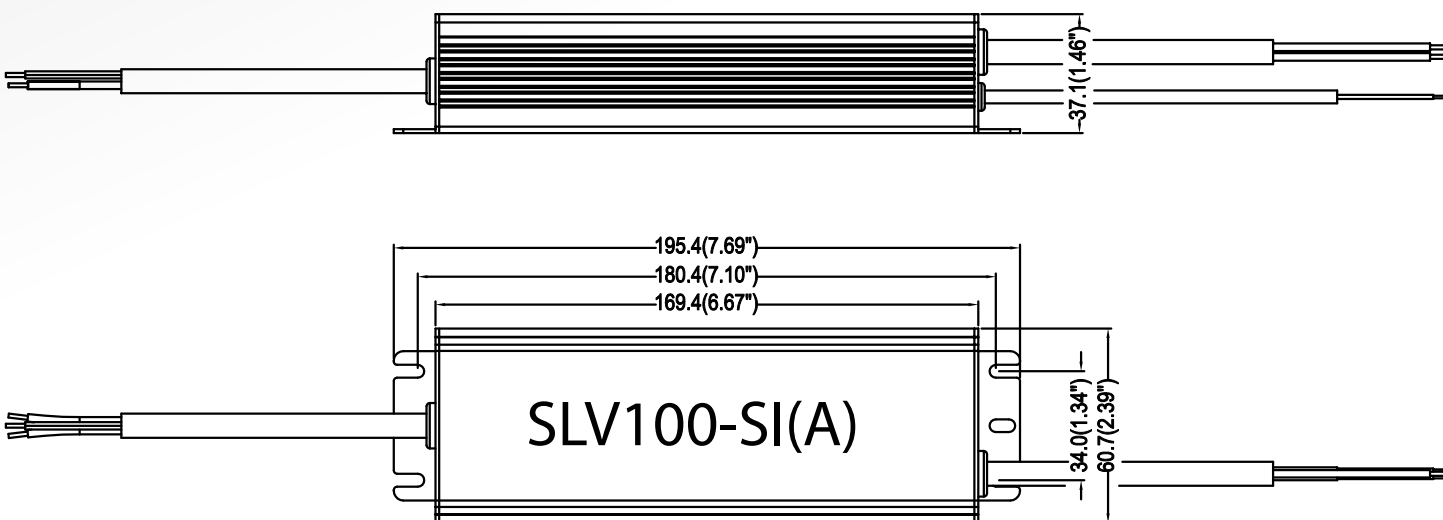
Derating Curve



Mechanical Diagrams



Packing Information:
 0.832kg/pc; 6 pcs/carton;
 Weight: 6.8kgs/carton
 232(L)*180(W)*192(H) mm



Packing Information:
 0.838kg/pc; 6 pcs/carton;
 Weight: 6.85kgs/carton
 232(L)*180(W)*192(H) mm

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SLV100-202502

Preliminary datasheet for reference only