



Plug-and-Play 100W Constant Voltage LED Driver

The SLV 100 -FC series is a UL Listed Class 2 100 Watt LED driver series with constant voltage output. Coming in a patented enclosure with easy-install integral wiring compartments, the SLV100-FC is class 2 UL listed eliminating needs of external junction boxes saving installation time and costs by half. 12 V auxiliary 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/>).

SLV 100-FC

UL/cUL Listed LED Drivers

US Patent Numbers: 7,154,755 & 7,738,253



Model Selection Key

SLV100-ABBV-FC

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

Features

- UL Listed LED Driver , enabling drastically reduced approval times and agency approval costs.
- Plug-and-Play Conduit Entry and Wiring Compartments.
- Eliminates need for external Junction boxes.
- Wide Input Voltage: 90-305 VAC
- Extremely Low operating temperature - 40°C to 60°C
- SCP, OCP, OTP, OVP
- With 12V 300mA Auxillary Output option available.
- UL Class P
- UL Type HL
- Up to 5 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-FC | 100-277 | 1 | 12 | 0 | 8.33 | 100 | 100 |
| SLV100-112V-FC(A) | 100-277 | 1 | 12 | 0 | 8.33 | 100 | 100 |
| SLV100-124V-FC | 100-277 | 1 | 24 | 0 | 4.20 | 100 | 100 |
| SLV100-124V-FC(A) | 100-277 | 1 | 24 | 0 | 4.20 | 100 | 100 |
| SLV100-148V-FC | 100-277 | 1 | 48 | 0 | 2.10 | 100 | 100 |
| SLV100-148V-FC(A) | 100-277 | 1 | 48 | 0 | 2.10 | 100 | 100 |

FC = Patented, easy install enclosure with integral wiring compartments.

(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

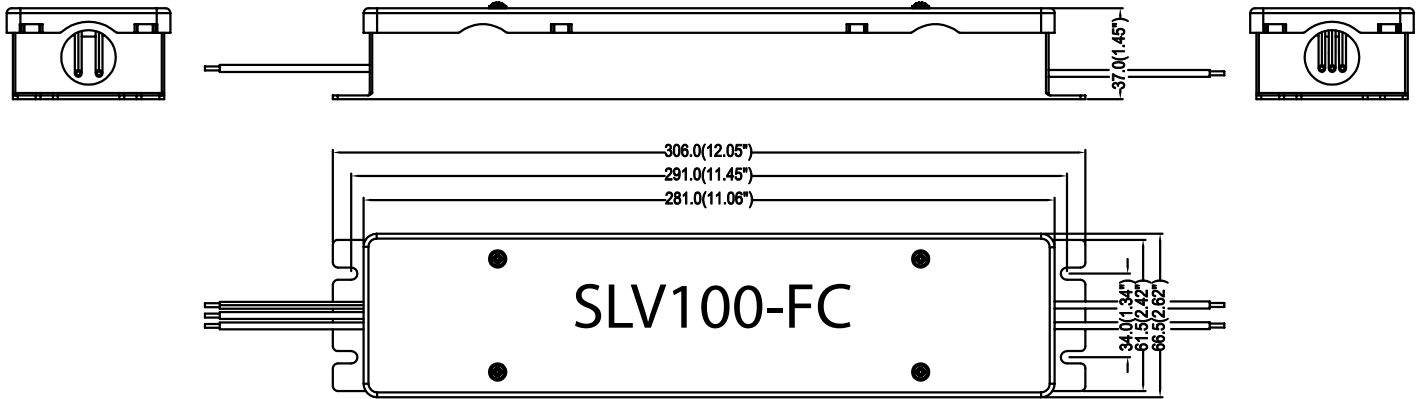
| | |
|-------------------|--|
| EMI/RFI: | CISPR-22 Class B FCC part 15 Class B EN 55015 |
| Safety Standards: | UL1012/1585, UL8750,UL879, UL Class 2 Wet locations ,Class P, Type HL UL 48,cUL, CE, UL #: E342485 EN 61347-2-13, CCC, PSE |
| Weatherability: | EN60529 IP 65 |
| Surge Immunity | Line -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

| | | |
|-------------------|---|---|
| INPUT |  | SJTW 18AWG |
| OUTPUT (Standard) |  | 12V: SJTW 16AWG 24V: SJTW 18AWG 48V: SJTW 18AWG |

Mechanical

| | |
|-------------|--|
| Material: | NEMA 3 Design with patented AC and DC Wiring compartments, fully potted PCB. |
| Dimensions: | 306.0(L)*66.5(W)*37.0(H)mm |

Mechanical Diagrams



Packing Information:

0.98 kg/pc; 8 pcs/carton;
 Weight: 9.1kgs/carton;
 365(L)*225(W)*288(H) mm

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