



SLD25

Signage / Architectural LED Drivers



Model Selection Key

SLD25-ABBV-FC

- With Trim Pots
- Nominal Output Voltage
- Number of Output Channel(s)
- Series Name

Class 2 25 Watt LED Driver

The SLD 25 series is a Class 2, 25 Watt LED driver. With its wide, universal input voltage (90-305VAC) and user adjustable output voltage and current, this unit offers unparalleled ease-of-use and application versatility. Rated IP 65 for damp locations, it is ready for operation in indoor and outdoor settings.

Features

- Universal Input: 90-305 VAC
- User adjustable output voltage and current trim pots
- Unique long and thin form factor
- UL/cUL CE, FCC approved
- 3 Year Warranty

Benefits

- Easy to Install
- Suitable for both indoor/outdoor applications
- Application Flexibility
- Certified to the highest safety standards
- Best in class reliability and durability

Applications

- Architectural Lighting
- Effect & Contour Lighting
- Office General Illumination
- Residential Lighting
- Signage
- Strip Lighting

| Models | Nominal Vout (V) per Channel | CV mode Voltage POT Adjust Range (V) | CC mode LED Voltage Range(V) | Current POT* Adjust Range (A) | Class 2 Max Output Current | Max Ripple/ Noise (mV pp) | Efficiency | Max Output Power (W) |
|---------------|------------------------------|--------------------------------------|------------------------------|-------------------------------|----------------------------|---------------------------|------------|----------------------|
| SLD25-105V-FW | 5 | 3.5-5.5 | 3-5 | 0.25-3.25 | 5 | 50 | 70% | 25 |
| SLD25-108V-FW | 8 | 6-8.8 | 4-8 | 0.16-3.28 | 3.13 | 80 | 75% | 25 |
| SLD25-110V-FW | 10 | 7.5-11 | 5-10 | 0.13-2.62 | 2.5 | 100 | 78% | 25 |
| SLD25-112V-FW | 12 | 9-13.2 | 6-12 | 0.10-2.10 | 2 | 120 | 79% | 25 |
| SLD25-115V-FW | 15 | 11.25-16.5 | 7.5-15 | 0.08-1.75 | 1.67 | 150 | 79% | 25 |
| SLD25-118V-FW | 18 | 13.5-19.8 | 9-18 | 0.07-1.45 | 1.39 | 180 | 79% | 25 |
| SLD25-121V-FW | 21 | 15.75-23.1 | 10.5-21 | 0.06-1.25 | 1.19 | 210 | 79% | 25 |
| SLD25-124V-FW | 24 | 18-26.4 | 12-24 | 0.05-1.09 | 1.04 | 240 | 79% | 25 |
| SLD25-136V-FW | 36 | 27-39.6 | 18-36 | 0.03-0.72 | 0.69 | 360 | 79% | 25 |
| SLD25-148V-FW | 48 | 36-52.8 | 24-48 | 0.026-0.54 | 0.52 | 480 | 79% | 25 |

** All models can be pre-set at the factory to any special customer required voltage or current settings. Example: LED Driver Currents- 200mA, 350mA, 700mA, 1.2A, 1.5A, 2.0A etc. Output setting limitations based on model's min/max ratings.

Input Specification

| Voltage Range | Frequency Range | Max Inrush Current | Max Input Current: | Power Factor |
|--------------------------------------|-----------------|--|-----------------------|--------------|
| 90-305 VAC (NOM: 120/240/277 VAC) | 47-63 Hz | 8A @ 230 VAC Input, 25°C, cold start-up | 0.6 A @ 115 VAC Input | 0.9 min |

Output Specification

| | | | | |
|-----------------|-----------------------------------|--|---|--|
| Max Power | 25 W | Transient Response | 4 mS, full load to half load, 100 VAC Input | |
| Load Regulation | +/- 1% Max | Short Circuit Protection | Hiccup-Mode, Auto-Recovery upon removal of short circuit condition. | |
| Efficiency | up to 80% | Constant Voltage (CV) Mode Load Regulation | +/- 3% Max (Voltage Setting Adjustable via on-board pot: +5%/-30%) | |
| Noise/Ripple | 1% of Rated Output Voltage* | Constant-Current (CC) Mode Regulation | +/- 2% Max (Current Setting Adjustable via on-board pot: +5%/-90%) | |
| Start-up Time | 1 sec. Typical | Over Voltage Protection | 132% Max | |
| Hold-up Time | 16mS @ full load, 100VAC input | Over Current Protection | Constant-current limiting | |

* 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 |
|---|------------|----------------------------|--------------|-------------------|
| 55,000 hours (Full load @ 25°C Ambient, Based on MIL-217F) | Convection | -30°C- 60°C (Full load) | -40°C- 85°C | 5% - 95 % |

Compliance / Safety

| | |
|-------------------|--|
| EMI/RFI: | CISPR-22 Class B FCC part 15 Class B EN 55015, EMC |
| Safety Standards: | UL 1310 Class 2, UL 48 CE |
| Weatherability: | IP 66 |

Remote Dimming Options

Compatible with SLD DIM1&SLD DIM 1B

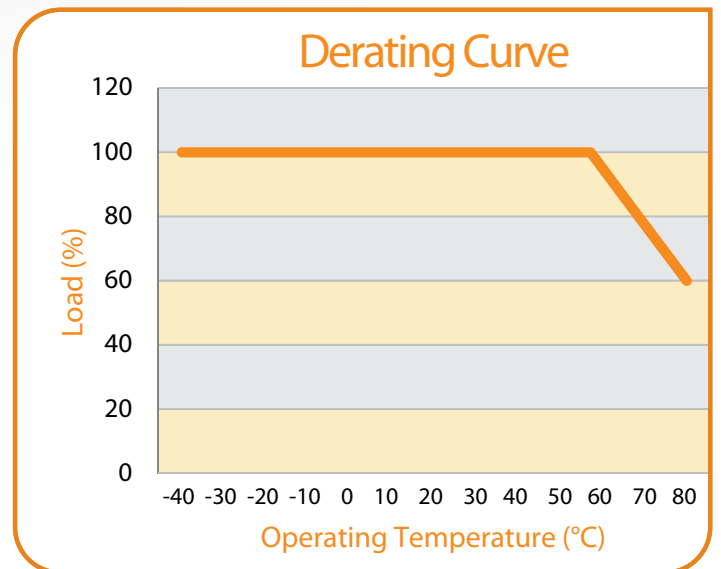
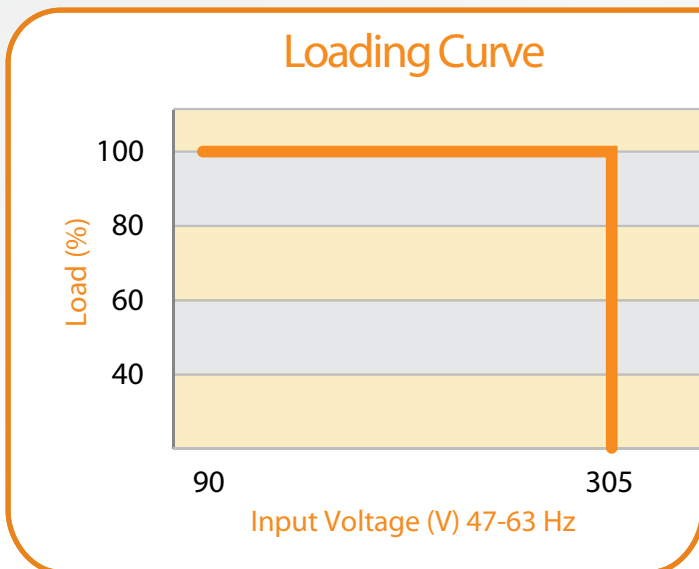
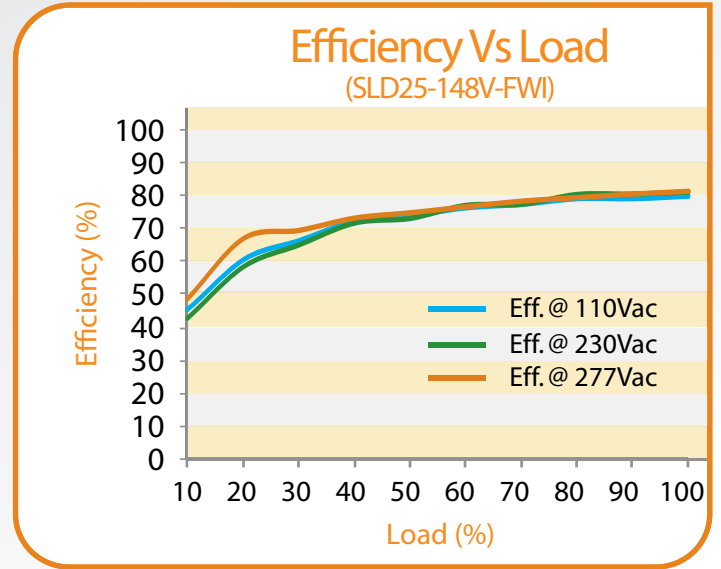
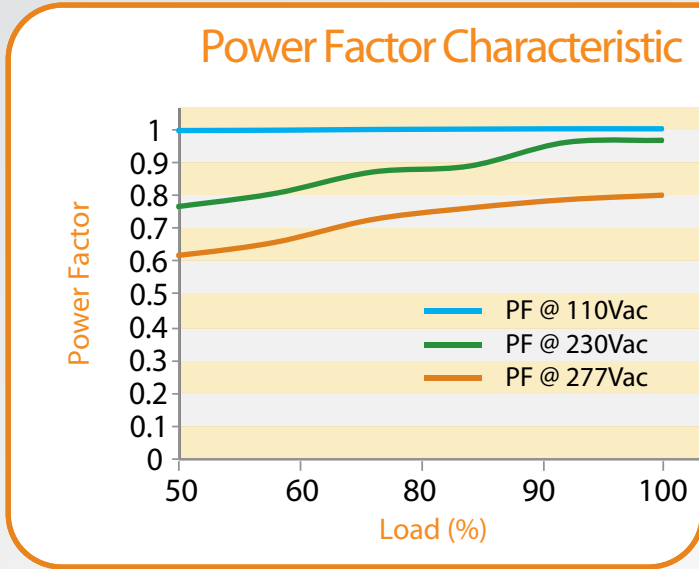


Mechanical

Material:

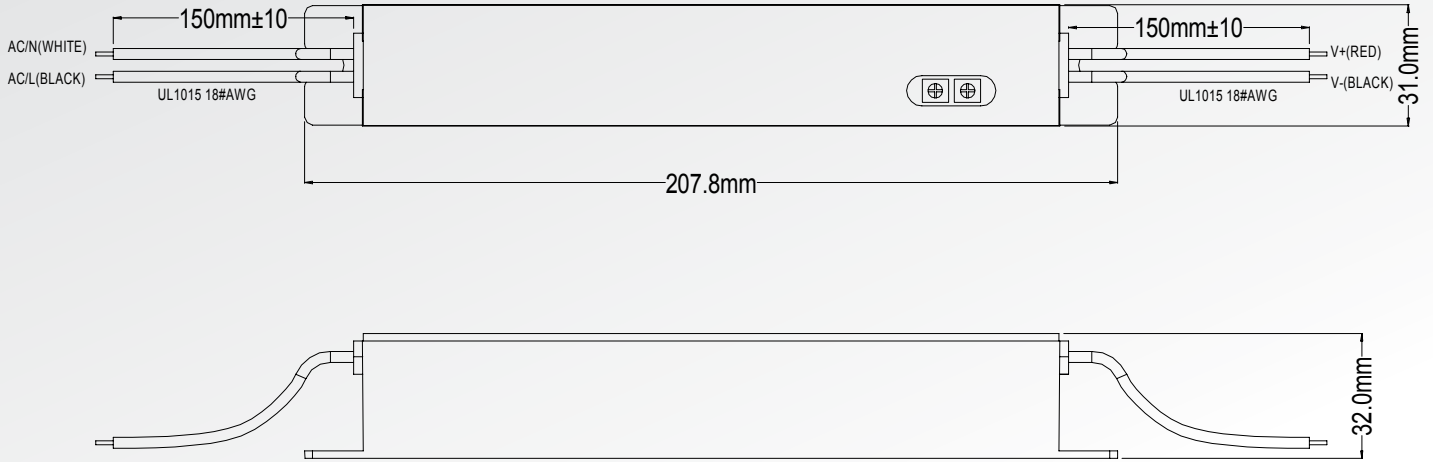
UV Rated Polycarbonate Plastic
UL 94 V2/ Natural White/ Potted

Reliabilities Curves



Mechanical Diagrams

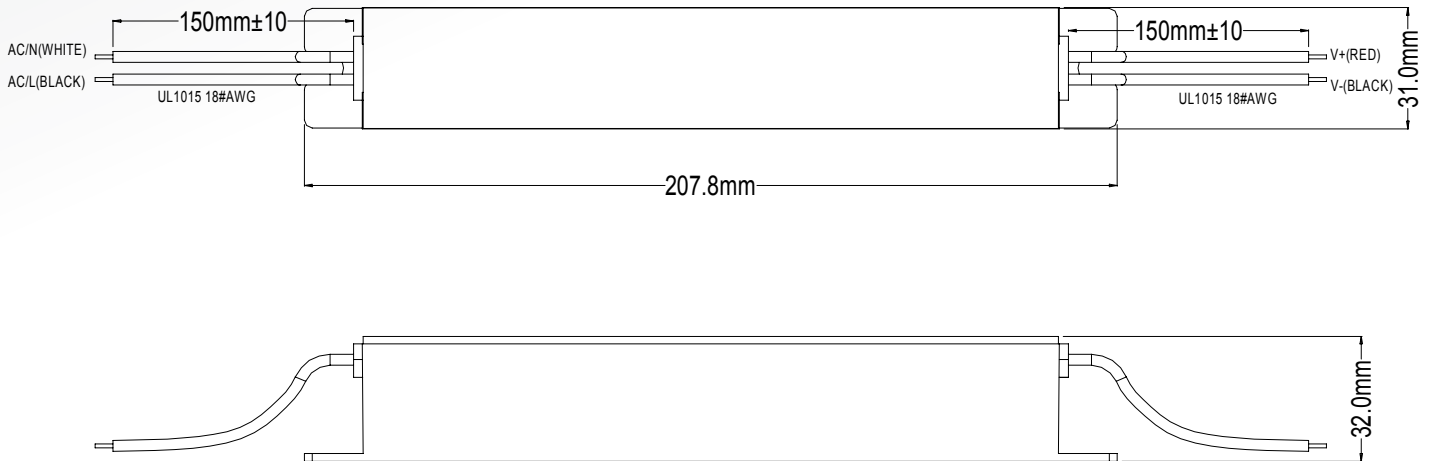
SLD 25 – FWI (with Voltage/Current Adjust Pots)



Packing Information

Weight: 0.313 kg/pcs, 22 kg/carton
 60 pcs/carton; L 480xW290xH255 (mm)

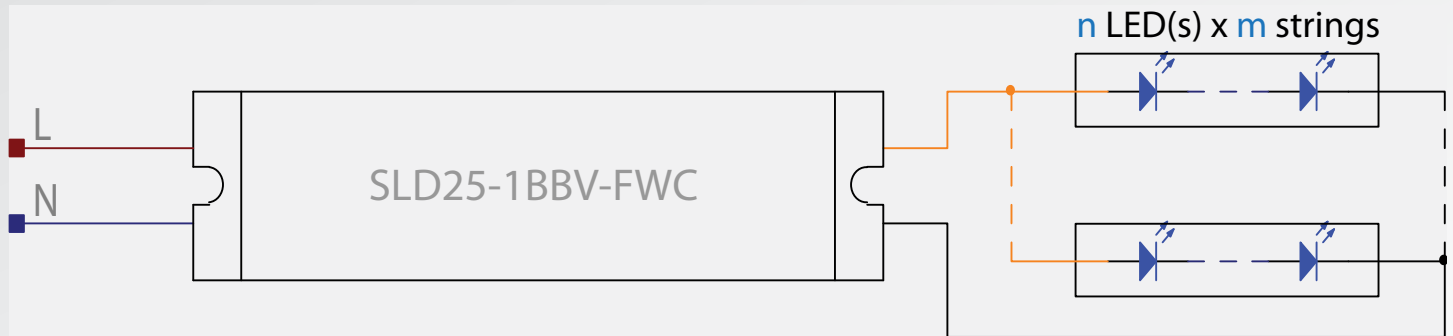
SLD 25 – FWO (without Adjust Pots)



Packing Information

Weight: 0.313 kg/pcs, 22 kg/carton
 60 pcs/carton; L 480xW290xH255 (mm)

Configuration Arrays



| Model | CC mode LED Voltage Range (V) | Recommended n LED(s) per String * | Current POT Adjust Range (A) | LED Current per String |
|---------------|-------------------------------|-----------------------------------|------------------------------|---------------------------------------|
| SLD25-105V-FW | 3 - 5 | 1 | 0.25 - 3.25 | $= \frac{I_{out}}{m \text{ Strings}}$ |
| SLD25-108V-FW | 4 - 8 | 1 - 2 | 0.16 - 3.28 | |
| SLD25-110V-FW | 5 - 10 | 2 - 3 | 0.13 - 2.62 | |
| SLD25-112V-FW | 6 - 12 | 2 - 3 | 0.10 - 2.10 | |
| SLD25-115V-FW | 7.5 - 15 | 2 - 4 | 0.08 - 1.75 | |
| SLD25-118V-FW | 9 - 18 | 3 - 5 | 0.07 - 1.45 | |
| SLD25-121V-FW | 10.5 - 21 | 3 - 6 | 0.06 - 1.25 | |
| SLD25-124V-FW | 12 - 24 | 3 - 7 | 0.05 - 1.09 | |
| SLD25-136V-FW | 18 - 36 | 5 - 10 | 0.03 - 0.72 | |
| SLD25-148V-FW | 24 - 48 | 7 - 14 | 0.026 - 0.54 | |

* LED Vf range: 2.7-3.6V

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