



# 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

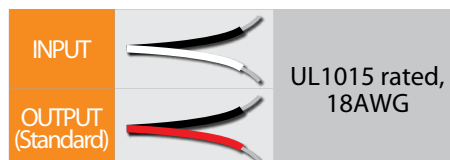
MTBF	Cooling	Operating Temp	Storage Temp	Relative Humidity
55,000 hours (Full load @ 25°C Ambient, Based on MIL-217F)	Convection	-30°C- 60°C (Full load)	-40°C- 85°C	5% - 95 %

## 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

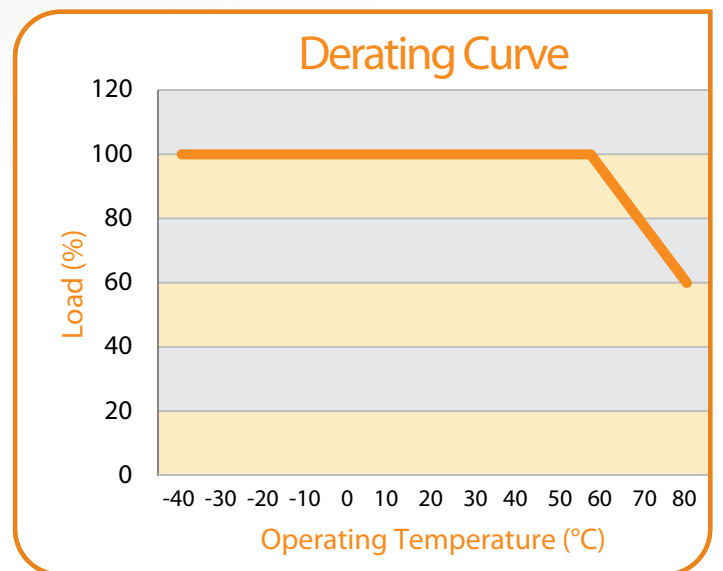
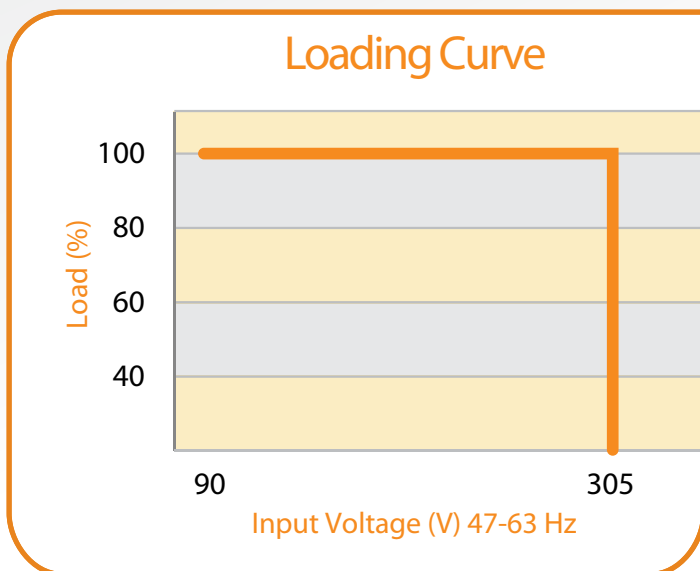
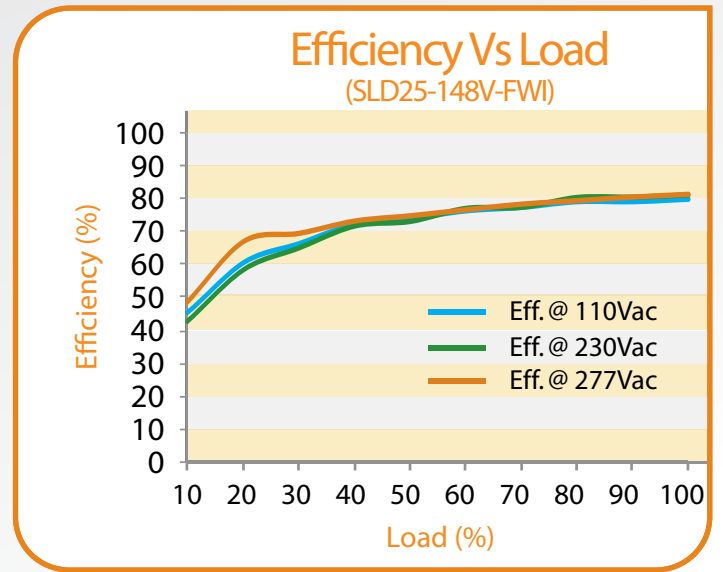
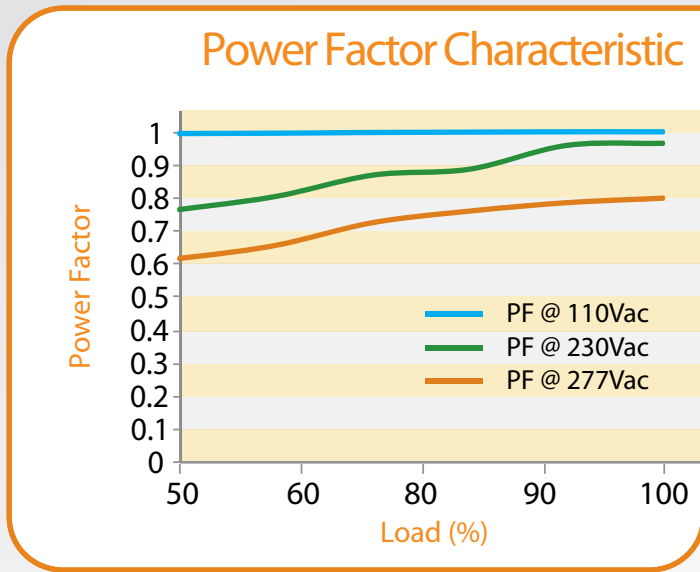


## Mechanical

Material:

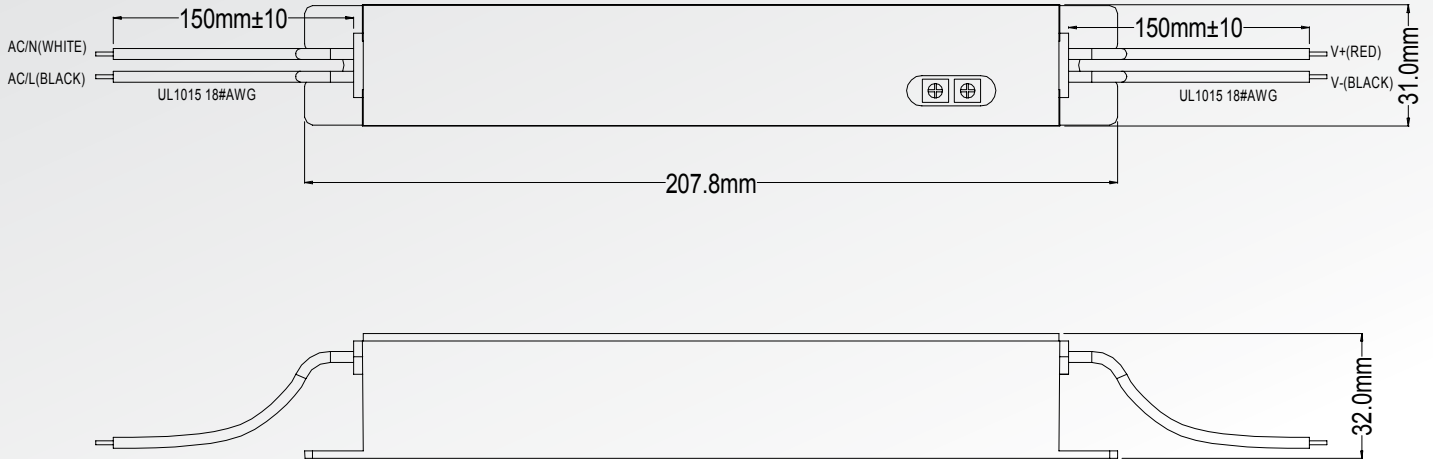
UV Rated Polycarbonate Plastic  
UL 94 V2/ Natural White/ Potted

## Reliabilities Curves



## Mechanical Diagrams

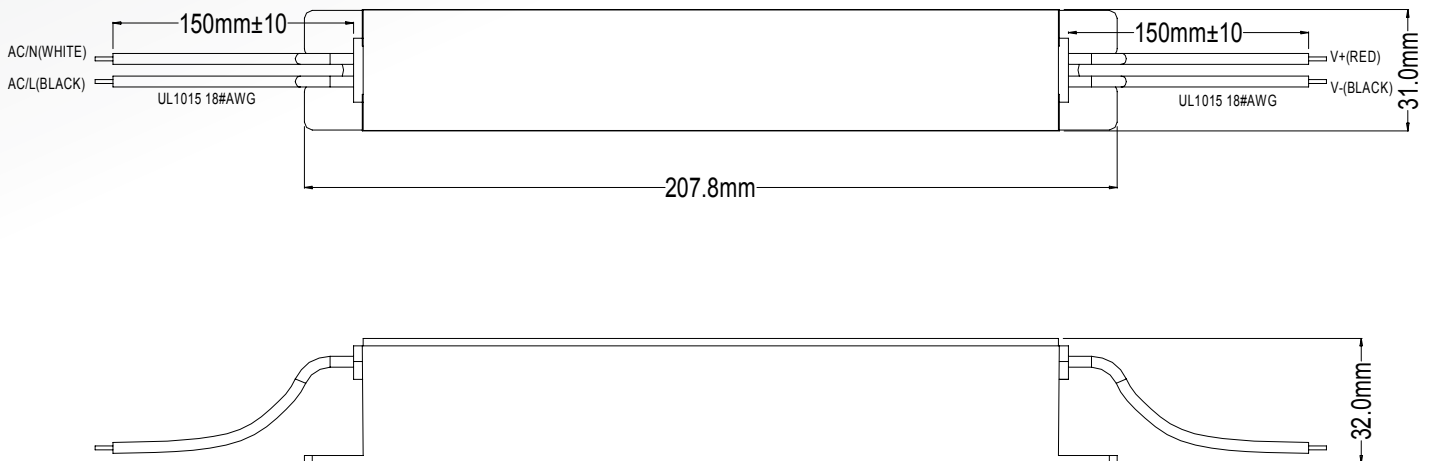
### SLD 25 – FWI (with Voltage/Current Adjust Pots)



#### Packing Information

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

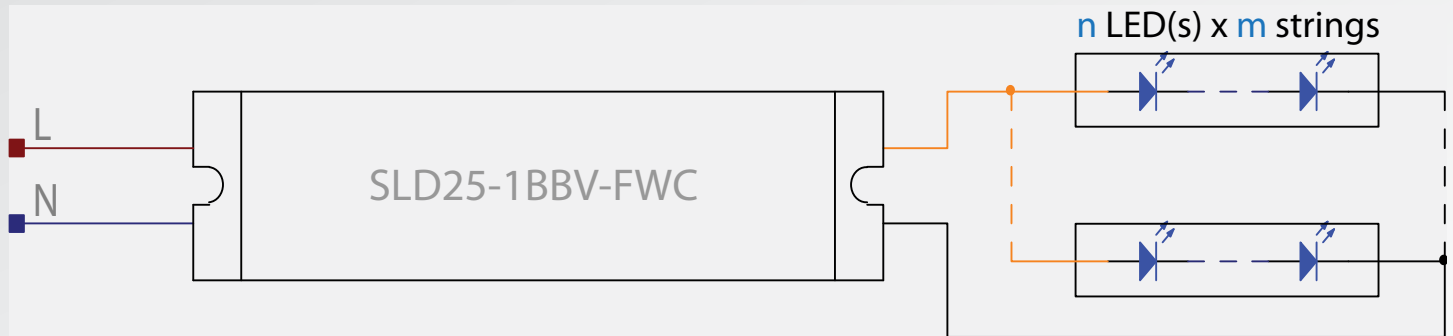
### SLD 25 – FWO (without Adjust Pots)



#### 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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