

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 V_{AC}
- 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
- Horticultural Lighting

SLD25

Signage / Architectural LED Drivers



Model Selection Key

SLD25-ABBV-FC

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

Model Number	Input Voltage Range (V _{AC})	Channel(s) Output	CC mode					CV Mode				Max Output Power (per Channel) (W)	Total Output Power (W)	
			Rated Current (per Channel) (A)	Compliance (LED) Voltage (V _{DC})		Current Pot Adjustable Range (All Channels) (A)		Preset Vout (V _{DC})	Load Range (per Channel) (A)		Voltage Pot Adjustable Range (V _{DC})			
				min	max	min	max		min	max	min			max
SLD25-105V- <input type="checkbox"/>	90-305	1	5.0	3.0	5.0	0.25	5.25	5	0	5.25	3.5	5.3	25	25
SLD25-108V- <input type="checkbox"/>	90-305	1	3.1	4.0	8.0	0.16	3.28	8	0	3.28	5.6	8.4	25	25
SLD25-110V- <input type="checkbox"/>	90-305	1	2.5	5.0	10.0	0.13	2.63	10	0	2.63	7.0	10.5	25	25
SLD25-112V- <input type="checkbox"/>	90-305	1	2.1	6.0	12.0	0.10	2.19	12	0	2.19	8.4	12.6	25	25
SLD25-115V- <input type="checkbox"/>	90-305	1	1.7	7.5	15.0	0.08	1.75	15	0	1.75	10.5	15.8	25	25
SLD25-118V- <input type="checkbox"/>	90-305	1	1.4	9.0	18.0	0.07	1.46	18	0	1.46	12.6	18.9	25	25
SLD25-121V- <input type="checkbox"/>	90-305	1	1.2	10.5	21.0	0.06	1.25	21	0	1.25	14.7	22.1	25	25
SLD25-124V- <input type="checkbox"/>	90-305	1	1.0	12.0	24.0	0.05	1.09	24	0	1.09	16.8	25.2	25	25
SLD25-136V- <input type="checkbox"/>	90-305	1	0.7	18.0	36.0	0.03	0.73	36	0	0.73	25.2	37.8	25	25
SLD25-148V- <input type="checkbox"/>	90-305	1	0.5	24.0	48.0	0.03	0.55	48	0	0.55	33.6	50.4	25	25

= FWI: With Volts/Amps Adjust Pots or FWO: No Volts/Amps Adjust Pots.

* UL marking: for products manufactured in Vietnam only, effective October 2020.

Input Specification

Voltage Range	Frequency Range	Max Inrush Current	Max Input Current:	Power Factor
90-305 V _{AC} (NOM: 120/240/277 V _{AC})	47-63 Hz	8A @ 230 V _{AC} Input, 25°C, cold start-up	0.6 A @ 115 V _{AC} Input	0.9 min @ 110V _{AC}

Output Specification

Max Power	25 W	Transient Response	4 mS, full load to half load, 100 V _{AC} 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%)
Hold-up Time	16mS @ full load, 100V _{AC} input	Over Voltage Protection	132% Max
		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 to 60°C (Full load)	-40°C to 85°C	5% - 95 %

Compliance / Safety

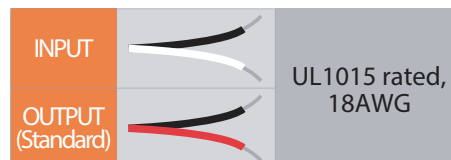
EMI/RFI:	CISPR-22 Class B FCC part 15 Class B EN 55015, EMC
Safety Standards:	UL 1310 Class 2, UL 48 CE
Weatherability:	IP 65

Mechanical

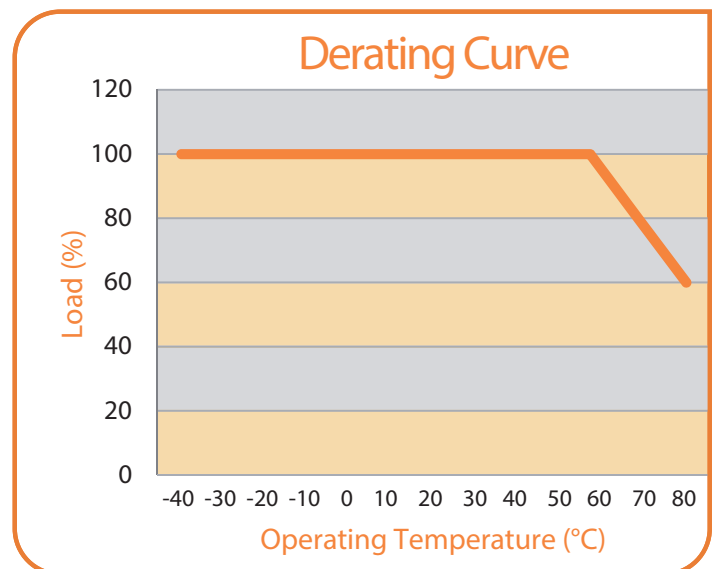
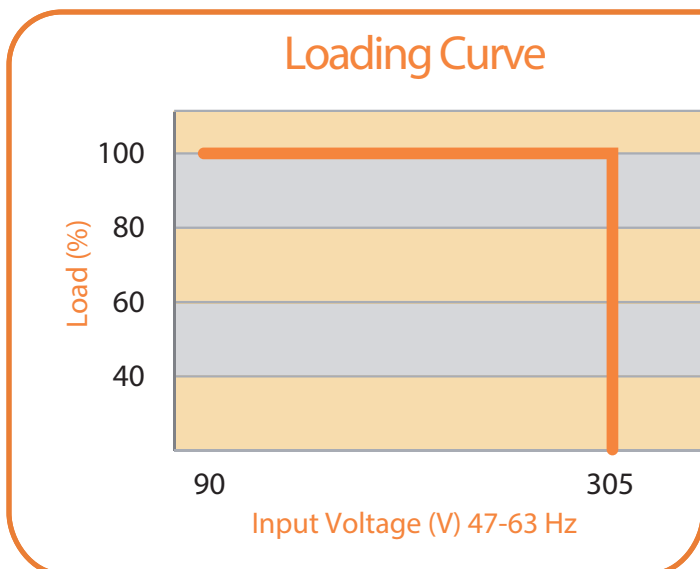
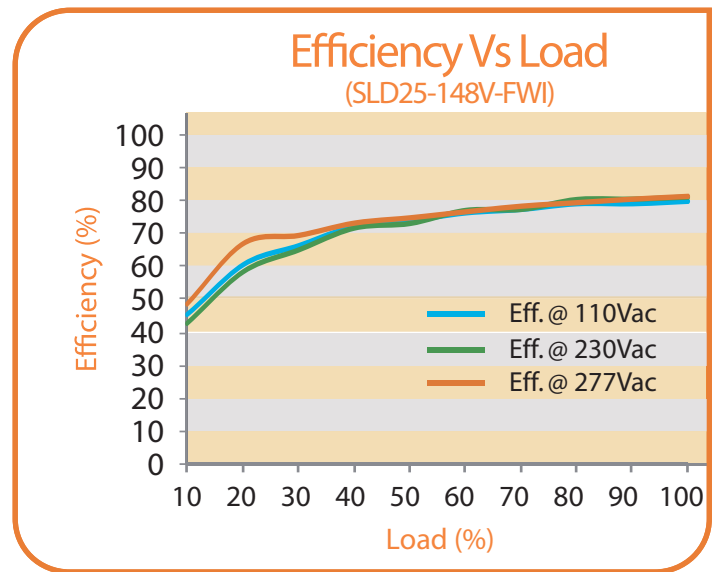
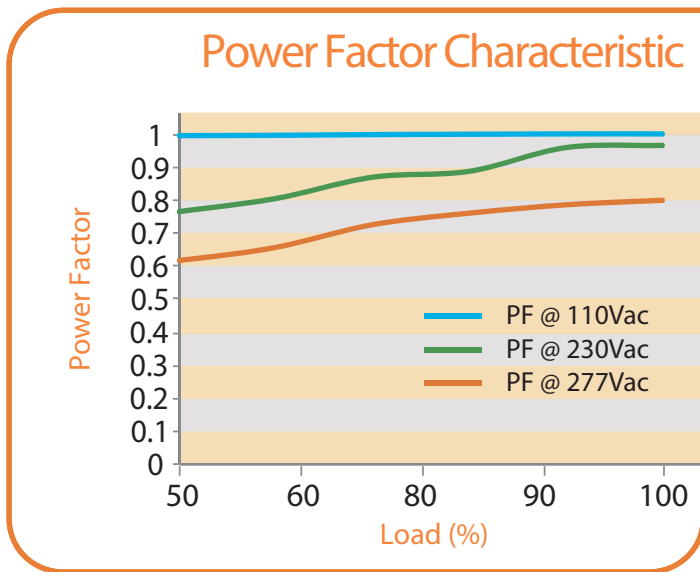
Material:
UV Rated Polycarbonate Plastic UL 94 V2/ Natural White/ Potted

Remote Dimming Options

Compatible with SLD DIM1&SLD DIM 1B

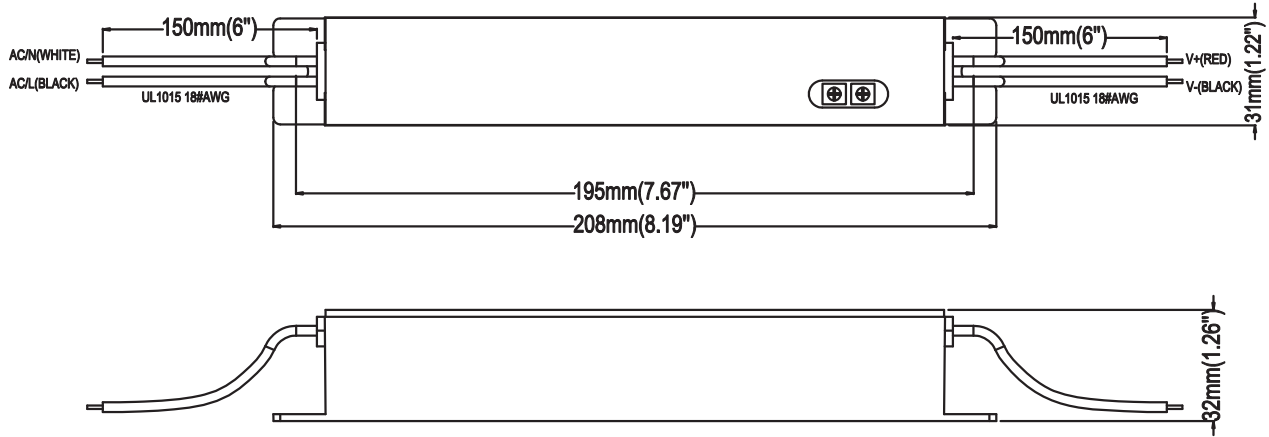


Performance Curves



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)

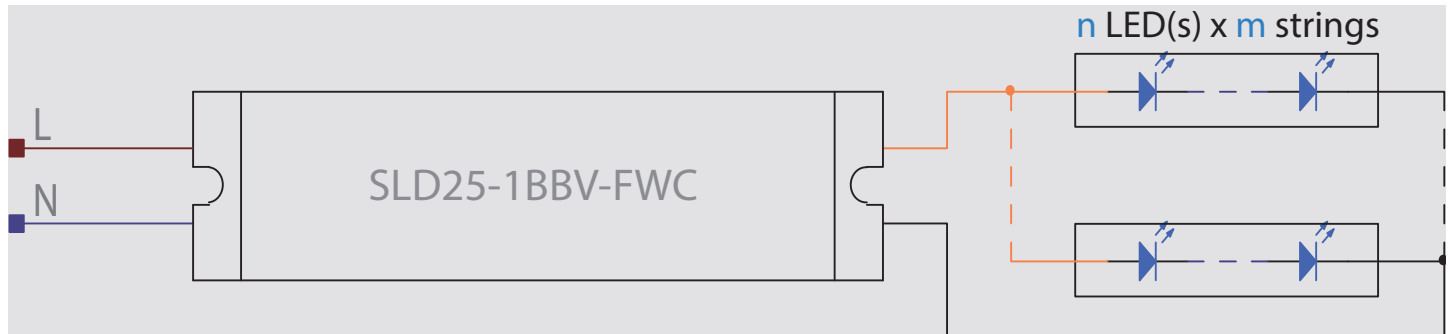
SLD 25 – FWO (without Adjust Pots)



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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