

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



Plug-and-Play Class 2 120 Watt LED Driver

The SLD 120 is an installation-ready, dual channel, 120 Watt, LED driver. This switched-mode, AC/DC design comes with 90-264VAC input, adjustable voltage/current trim pots, and is fully potted to enable maximum flexibility of use, for both indoor and outdoor LED lighting applications. This unit's revolutionary design allows for all DC and AC wiring to be done inside the unit, without the need for external junction boxes, saving you valuable time and installation costs, as well improving overall reliability of your LED lighting system.

Features

- Plug-and-Play Conduit Entry Ports and Wiring Compartments eliminate need for external Junction
- Universal Input 90-264 V_{AC} Dual Channel Operation for multiple strings of LEDs User Adjustable Output Voltage and Current
- UL/cUL/FCC/CE/EMC
- Built in Over Current, Over Voltage, and Short Circuit Protection
- Low peak/noise current
- Up to IP 67
- **Remote Dimming Options**
- 3 Years Warranty

Applications

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

				CCı	mode				C'	V Mod	e			
Model Number	Input Voltage Range (V _{AC})	Channel(s) Output	Rated Current (per Channel) (A)	(LĖ	tage	Currei Adjus Range Channe	table e (All	Preset Vout (VDC)		Range nannel) \	Voltag Adjus Ran (V	table ge	Max Output Power(per Channel) (W)	Total Output Power (W)
			(- ',	min	max	min	max	(min	max	min	max	(
SLD120-210V-FC	90-264	2	5.00	7.0	10.5	0.50	10.00	10	0	5.00	7.0	10.5	53	100
SLD120-212V-FC	90-264	2	5.00	8.4	12.6	0.50	10.00	12	0	5.00	8.4	12.6	63	120
SLD120-215V-FC	90-264	2	5.00	10.5	15.8	0.50	8.00	15	0	5.00	10.5	15.8	79	120
SLD120-218V-FC	90-264	2	5.00	12.6	18.9	0.50	6.67	18	0	5.00	12.6	18.9	95	120
SLD120-221V-FC	90-264	2	4.57	14.7	22.1	0.46	5.70	21	0	4.57	14.7	22.1	100	120
SLD120-224V-FC	90-264	2	4.00	16.8	25.2	0.40	5.00	24	0	4.00	16.8	25.2	100	120
SLD120-227V-FC	90-264	2	3.55	18.9	28.4	0.36	4.44	27	0	3.55	18.9	28.4	100	120
SLD120-236V-FC	90-264	2	2.66	25.2	37.8	0.27	3.33	36	0	2.66	25.2	37.8	100	120
SLD120-248V-FC	90-264	2	2.00	33.6	50.4	0.20	2.50	48	0	2.00	33.6	50.4	100	120

FC = Patented, easy install enclosure with integral wiring compartments

^{*} US Patent: US7154755 B2, China Patent No: 201020223052.2

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



Input Specification				
Voltage Range	Frequency Range	Max In rush Current	Power Factor	THD
90-264 V _{AC} (NOM: 120/240 V _{AC})	47-63 Hz	50A@230 V _{AC} input, 25°C, cold start-up	0.9 min	<25% @ Full Load

Output Specification						
Max Power	120 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	80% typ.	Constant Voltage (CV) Mode Load Regulation	+/- 3% Max (Voltage Setting Adjustable via on-board pot: +5%/-30%)			
Noise/Ripple	1.5% of Rated Output Voltage*	Constant-Current (CC) Mode Regulation	+/- 2% Max (Current Setting Adjustable via on-board pot: +5%/-90%)			
Start-up Time	2 sec. Typical	Over Voltage Protection	132% Max			
Hold-up Time	16mS @ full load, 100V _{AC} 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	
100,000 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				
Safety Standards:	UL/cUL 1012/1585 UL 1310 Class 2, UL 48 CE				
Weatherability:	EN60529 Up to IP 67				

Mechanical

Material:

NEMA 3 Design with patented AC and DC Wiring compartments, fully potted PCB.

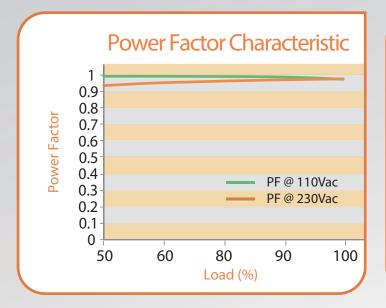
Remote Dimming Options

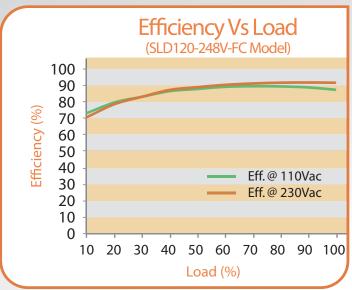
Dimming Types	Dimming Control
1. PWM-1kHz, 1-100% 2. Constant Current, 10-100% 3. Output Voltage, 75-100% 4. Compatible with SLD DIM	1-10V DCPotentiometerSerial Comm. (2-wire)Wireless Remote

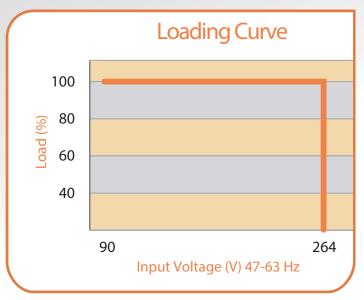


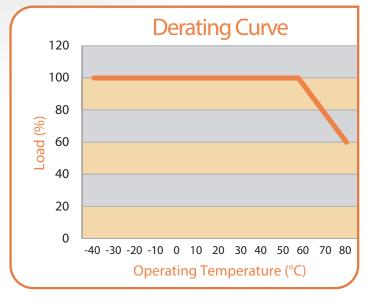


Performance Curves



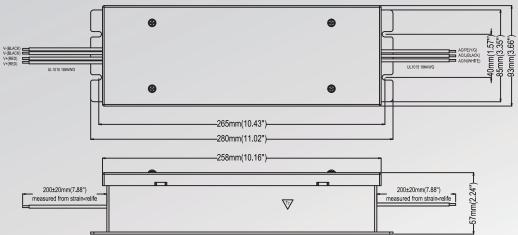








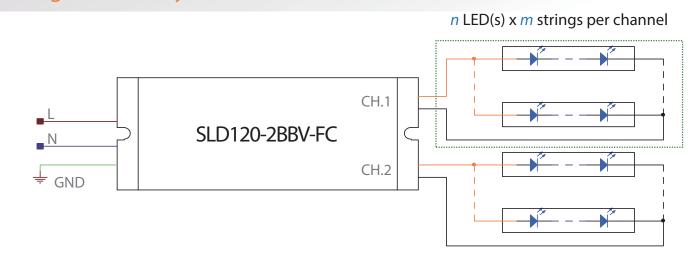
Mechanical Diagrams



Packing Information

Weight: 1.550 kg/pcs, 12.0 kg/carton 12 pcs/carton; L395xW365xH230 (mm) US Patent Numbers: 7,154,755 & 7,738,253

Configuration Arrays



Model	CC mode LED Voltage Range (V)	Recommended n LED(s) per String *	Current POT Adjust Range (A)	LED Current per String
SLD120-210V-FC	7.0-10.5	2-4	0.5 0-10.00	
SLD120-212V-FC	8.4-12.6	3-5	0.50-10.00	
SLD120-215V-FC	10.5-15.8	3-6	0.50-8.00	
SLD120-218V-FC	12.6-18.9	4-7	0.50-6.67	
SLD120-221V-FC	14.7-22.1	4-8	0.46-5.70	I _{out}
SLD120-224V-FC	16.8-25.2	5-9	0.40-5.00	= m Strings
SLD120-227V-FC	18.9-28.4	5-10	0.36-4.44	
SLD120-236V-FC	25.2-37.8	7-14	0.27-3.33	
SLD120-248V-FC	33.6-50.4	9-18	0.20-2.50	

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