

118616

# LED Driver Constant Voltage 12/24V 30/60W Selectable

Pro Max  
Flight Loop<sup>®</sup>



12V+24V

Switch regulation voltage



## World 1st

*Global Innovation*

*Loop In & Loop Out Integrated LED Driver*

### About

#### Revolutionary LED Driver

Saxby proudly presents the Pro Max Series, a groundbreaking line of LED driver designed to redefine convenience, efficiency, and cost-effectiveness in the realm of lighting solutions. With a focus on innovation and user-friendly features, the Pro Max Series is set to revolutionize the LED driver market.

Innovated function to meet the need of difference application: Standard, 3CCT, D4i+NFC, DALI Dim-D4i, DALI Dim-DT6, Triac Dim, Triac Dim-3CCT, Wireless Dimming + CCT, 0-10V Dim, Soft-start, Constant Voltage, Constant Current.

- Plug-and-Play Design:  
Features a user-friendly plug-and-play design with interchangeable wiring terminals, simplifying the installation process and reducing labor costs for electricians.
- Cost-Effective Installation:  
Engineered to minimize installation expenses, the design of the Pro Max Series not only streamlines the power supply installation but also facilitates post-installation maintenance, resulting in overall cost savings.
- Ease of Maintenance:  
The Pro Max Series ensures hassle-free maintenance, allowing for the swift replacement of the driver without the need to change wiring terminals. This feature minimizes downtime and enhances the longevity of your lighting system.
- Versatility and Compatibility:  
In the event of a driver failure, the Pro Max Series offers the flexibility to replace it with a unit of different power ratings or functionalities, such as upgrading to a dimmable driver of the same size. This adaptability provides significant cost savings and customization options.

- Wide Range of Applications:  
The ProMax Series finds its application in a diverse range of LED lighting fixtures, including LED panel, LED downlights, LED spotlights, LED waterproof lights, and LED bracket lights. Its versatile compatibility makes it suitable for various lighting scenarios.
- Global Patents and Innovation:  
Boasting global invention patents, the Promax Series stands as the world's first of its kind. Our commitment to innovation ensures that you are investing in a product that is not only cutting-edge but also protected by intellectual property rights.
- Five-Year Quality Assurance:  
As a testament to the durability and reliability of the Pro Max Series, we proudly offer a comprehensive 5-year warranty. Rest assured that your lighting infrastructure is supported by a product designed for long-term performance.

Experience the future of LED driver with the Pro Max Series-a symbol of innovation, versatility, and cost efficiency. Choose a lighting solution that not only illuminates but transforms the way we power our world.

## LED Driver Constant Voltage 12/24V 30/60W Selectable

Innovated  
Constant Voltage Driver



# LED Driver Constant Voltage 12/24V 30/60W Selectable



## Schematic diagram



### Parameters

- 30-60W
- 12/24V
- 220-240V ac
- Surge protection 1KV
- Operation Temp-20°C – 45°C
- Ta 45°C
- Tc 80°C

### Features

- EFF≥88%
- PF>0.95
- THD<15%
- Natural Cooling
- Sealed PC Housing
- SCP/OCP/OVP/OTP

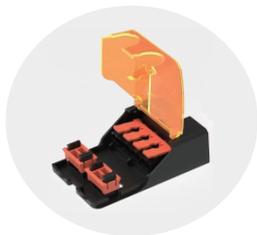
### Benefits

- Innovative design
- Flexible replacement
- Versatility and Compatibility
- Ease of Maintenance
- 50,000 hours life time
- 5 years warranty

### Applications

- Office luminaries
- LED panel light
- LED down light
- LED linear light
- LED batten light

## Details



High-quality junction box

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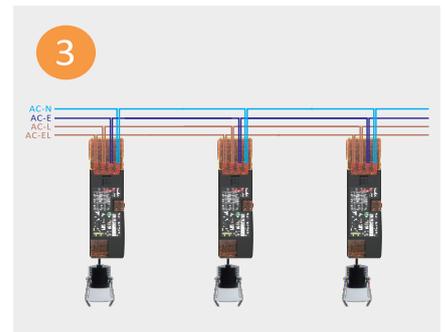
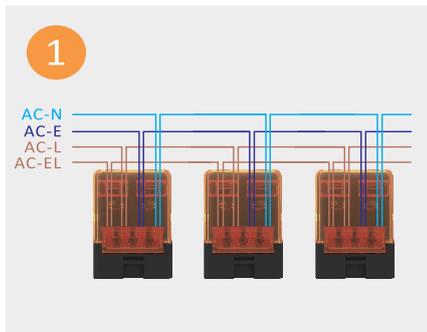
High-performance driver

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Flight loop driver

Innovative design with independent LED driver and connector for flexible replacement



## LED Driver Constant Voltage 12/24V 30/60W Selectable

### Model list

Model	Output power	Input voltage	Output voltage	Output current	Dimension
SAX01-118616	30W/60W	220-240V	12V/24V	2.5A	L189.5*W49*H26mm

### Technical data

Product model	SAX01-118616
<b>Input parameters</b>	
Rated input voltage range	220-240V
Limit voltage range	200-264V
Input current(Max)	0.37A Max
Operating frequency	50-60Hz
Power factor/phase shift factor	>0.95/@230Vac full load
Input THD	<15%@230Vac full load
Efficiency(max)	≥88%/@230Vac full load
In-rush current	30A/230Vac Max
Start/Switchover/Turn off	<500MS@230Vac full load
Switching cycles	More than 50,000 times
Power consumption	10%
<b>Output parameters</b>	
Rated output current range	2.5A
Rated output voltage range	12V/24V
Rated output power	30-60W
Current regulation system	Adjust the resistance on the PCB board
Current low frequency ripple	<1%
Output current accuracy	±5%
No load output voltage	25V
Flicker-free(typical)	<0.03
<b>Safety</b>	
Withstand voltage	Input to output 3750v
Mains surge immunity	1KV
Leakage current	<5MA
Isolation resistance	100MΩ/500V
<b>Environment &amp; Life time</b>	
Operating temperature	-20-45°C
Case temperature	80°C
Operating humidity	10-90%RH
Storage temp./humidity	-40-80°C 5-95%RH
IP grade	IP 20
Life-time	50000H
Environmental protection	RoHS

# LED Driver Constant Voltage 12/24V 30/60W Selectable

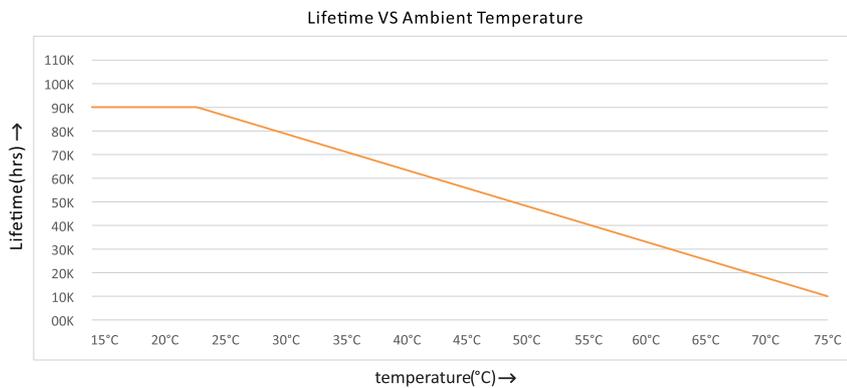
## Electrical data controls input

Specification item	Value	Condition
Control method	Fixed	Select output current via the dipswitches

## Wiring & Connections

Specifications item	Value	Unit
Input wire cross-section	0.5...2.5	mm <sup>2</sup>
	20...12	AWG
Input wire stripped length	9...10	mm
Output wire cross-section	0.3...1.5	mm <sup>2</sup>
	22...16	AWG
Output wire stripped length	8..9	mm

## Expected lifetime

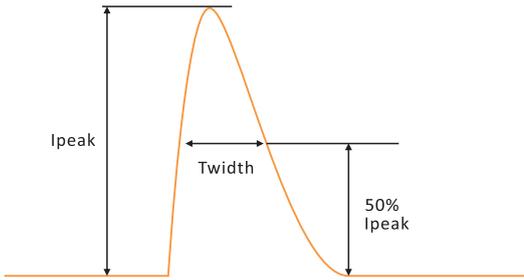


# LED Driver Constant Voltage 12/24V 30/60W Selectable

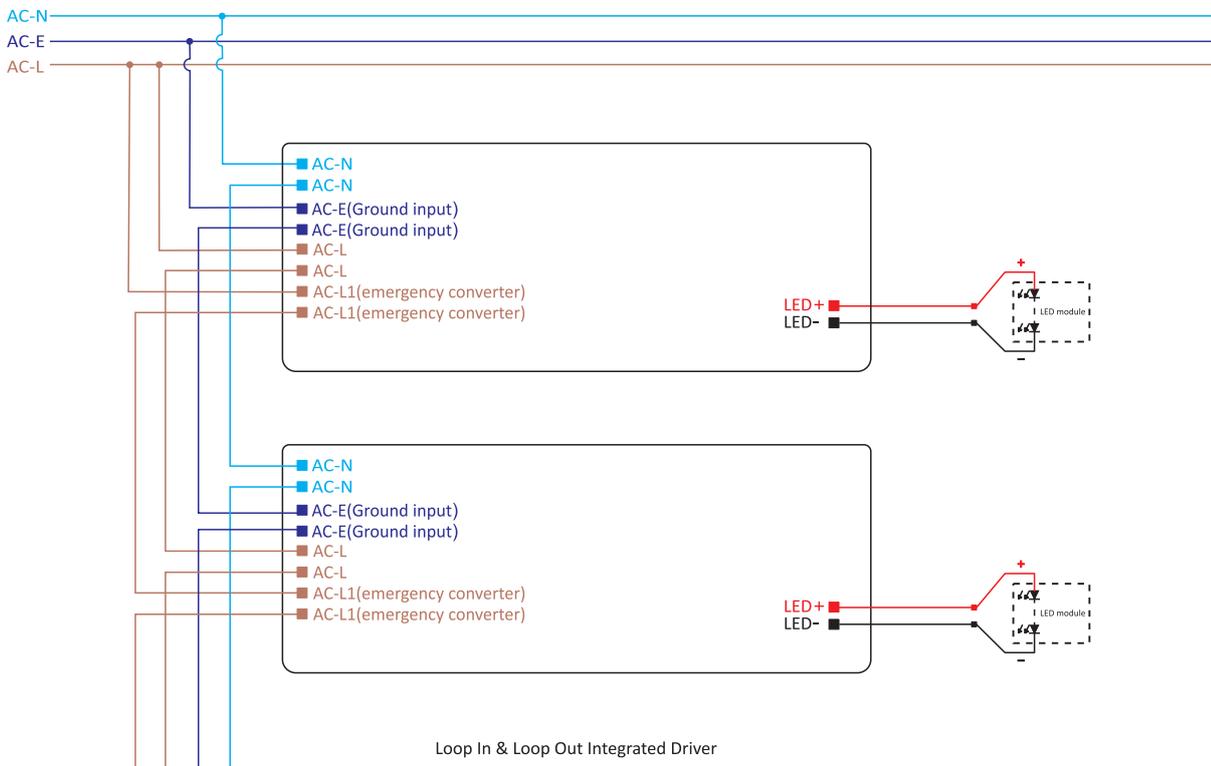
## Surge

Model	I <sub>peak</sub>	T <sub>width</sub>	Relative number of MCB/pcs															
			B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	B24	
SAX01-118616	22A	185us	12	13	14	15	17	18	19	20	21	22	24	25	26	27	28	

\*Condition: Input 230V AC with full load, cold start Ta≤30°C, MCB without side by side installation.



## Wiring diagram



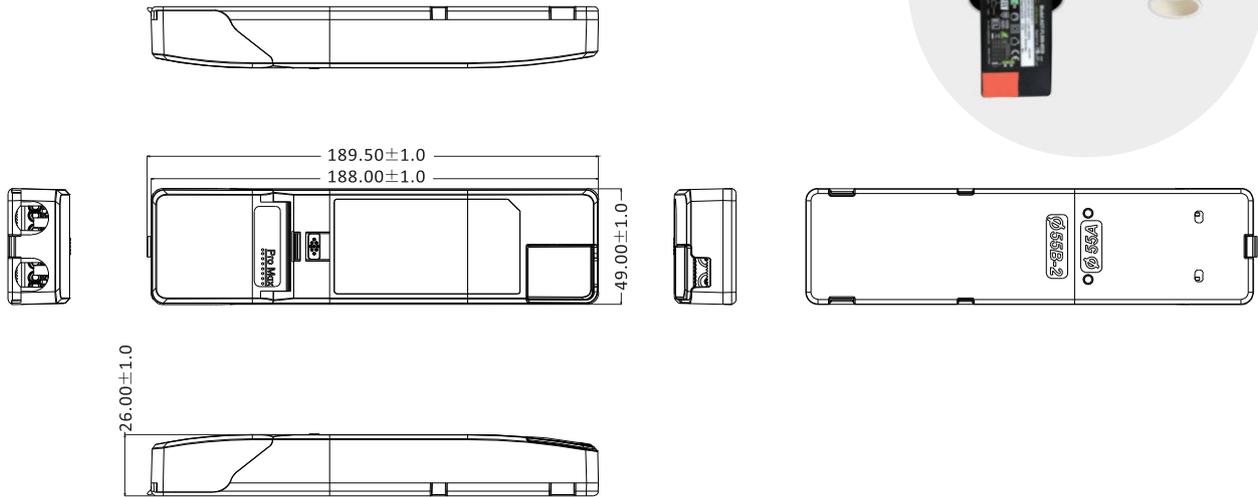
# LED Driver Constant Voltage 12/24V 30/60W Selectable

## Dimensions

**Model: SAX01-118616**

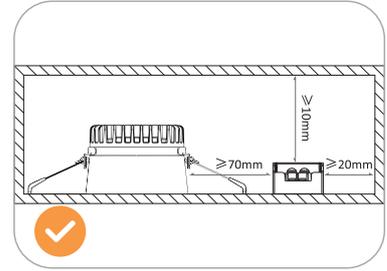
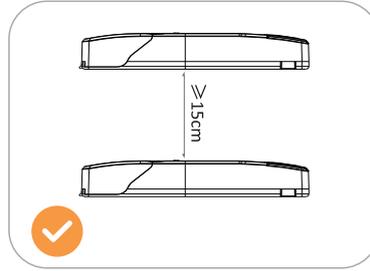
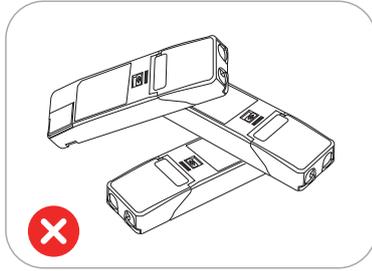
**Dimensions: L189.5\*W49\*H26mm**

Unit:mm



# LED Driver Constant Voltage 12/24V 30/60W Selectable

## Installation requirements



- 1.The two driver cannot be stacked together.
- 2.When installing, there should be at least 15 cm between the two drivers.
- 3.Neither the driver nor the lamps should be covered by any objects.
- 4.LED driver should be installed in a dry, acid-free, fat-free, environment.
- 5.The ambient temperatures should below  $T_a$ .
- 6.The temperature of the contact surface of the driver is lower than  $40^{\circ}\text{C}$ .
- 7.Driver should be kept away from heating stuff such as the radiator of the lamp.
- 8.There should be a distance of more than 10 cm between the driver and surrounding objects.
- 9.The installation and replacement of driver should be performed by professional electricians.

## Installation procedure

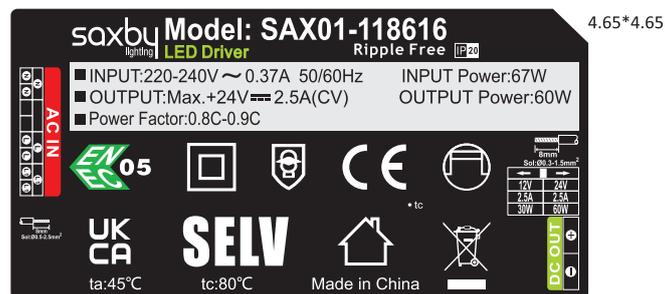
Quick installation and maintenance, minimizing installation and maintenance costs to the maximum extent possible, requiring only 3 seconds for installation and replacement.

- 1.Enhanced safety for protecting the lamps. Electricians first install the junction box during wiring.
- 2.conduct a circuit power test.
- 3.After testing, they install the driver & LED Lamp.

In case the driver malfunctions, simply unplug the power supply and replace it with a new one, completing the replacement process in just 3 seconds.

## Label

Unit:mm



76mm\*38.5mm