

118618

LED Driver Constant Current 50W Wattage Selectable

Pro Max
Flight Loop®



World 1st

Global Innovation

Loop In & Loop Out Intergrated 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.

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Innovated
Constant Current Isolated LED Driver

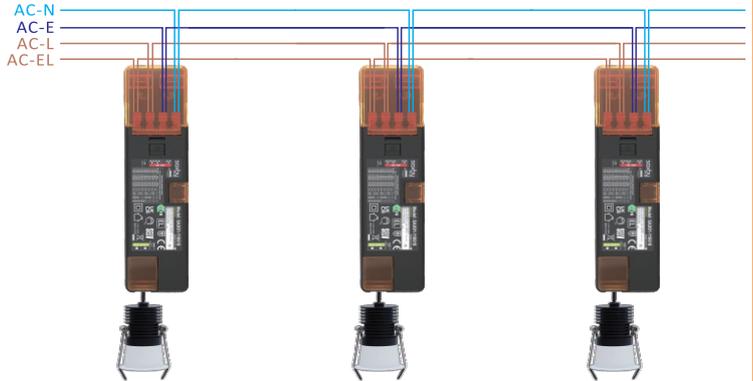
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Schematic diagram



Parameters

- 23.5-47W
- 20-42V
- 220-240Vac
- Surge protection 1KV
- Operation Temp-20°C – 45°C
- Ta 45°C
- Tc 80°C

Features

- EF≥93%
- PF>0.95
- THD<15%
- Natural Cooling
- Sealed PC Housing
- SCP/OCP/OVP/OTP

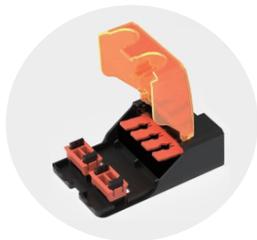
Benefits

- 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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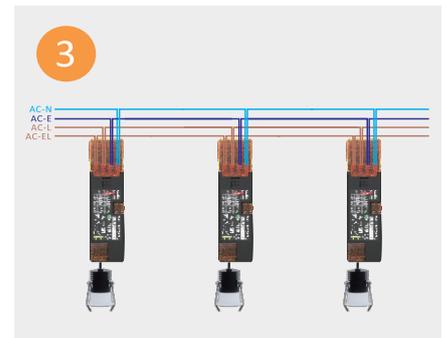
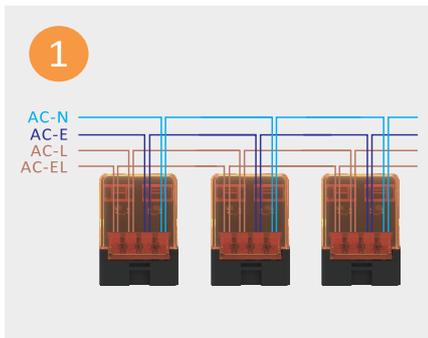
High-performance driver

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Flight loop driver

Innovative design with independent LED driver and connector for flexible replacement



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Model list

Model	Power	Input voltage	Output voltage	Output current	Dimension
SAX01-118618	23.5-47W	220-240V	20-42V	0.55-1.3A	L189.5*W49*H26mm

Technical data

Product model	SAX01-118618
Input parameters	
Rated input voltage range	220-240V
Limit voltage range	185-265Vdc
Input current(Max)	0.29A Max
Operating frequency	50-60Hz
Power factor/phase shift factor	>0.95/@230Vac full load
Input THD	<15%@230Vac full load
Efficiency(max)	≥93%@230Vac full load
In-rush current	30A/230Vac Max
Start/Switchover/Turn off	<500MS@230Vac full load
Switching cycles	More than 20,000 times
Power consumption	10%
Output parameters	
Rated output current range	0.55-1.3A
Rated output voltage range	20-42V
Rated output power	23.5-47W
Current regulation system	Adjust the resistance on the PCB board
Current low frequency ripple	<1%
Output current accuracy	± 5%
No load output voltage	55V
Flicker-free(typical)	<0.03
Safety	
Withstand voltage	Input to output 3750v
Mains surge immunity	1KV
Leakage current	<5MA
Isolation resistance	100MΩ/500V
Environment & Life time	
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

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Electrical data controls input

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

Switch output current

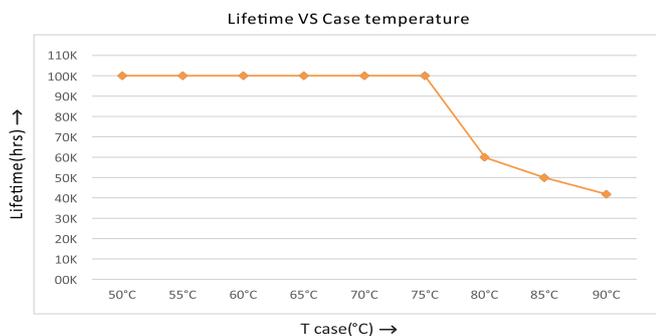
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Puot Max	Irated	Urated	1	2	3	4
23.5W	550mA	20-42V	-	-	-	-
25.5W	600mA	20-42V	ON	-	-	-
27.5W	650mA	20-42V	-	ON	-	-
29.5W	700mA	20-42V	ON	ON	-	-
31.5W	750mA	20-42V	-	-	ON	-
34.0W	800mA	20-42V	ON	-	ON	-
36.0W	850mA	20-42V	-	ON	ON	-
38.0W	900mA	20-42V	ON	ON	ON	-
40.0W	950mA	20-42V	-	-	-	ON
42.0W	1000mA	20-42V	ON	-	-	ON
38.0W	1050mA	20-36V	-	ON	-	ON
40.0W	1100mA	20-36V	ON	ON	-	ON
41.5W	1150mA	20-36V	-	-	ON	ON
43.5W	1200mA	20-36V	ON	-	ON	ON
45.0W	1250mA	20-36V	-	ON	ON	ON
47.0W	1300mA	20-36V	ON	ON	ON	ON

Wiring & Connections

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

Expected lifetime

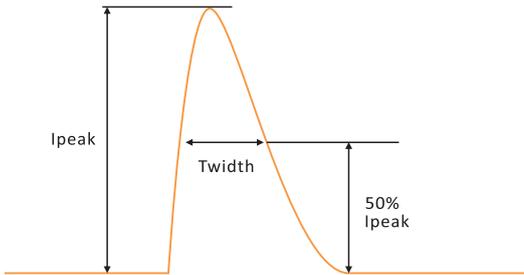


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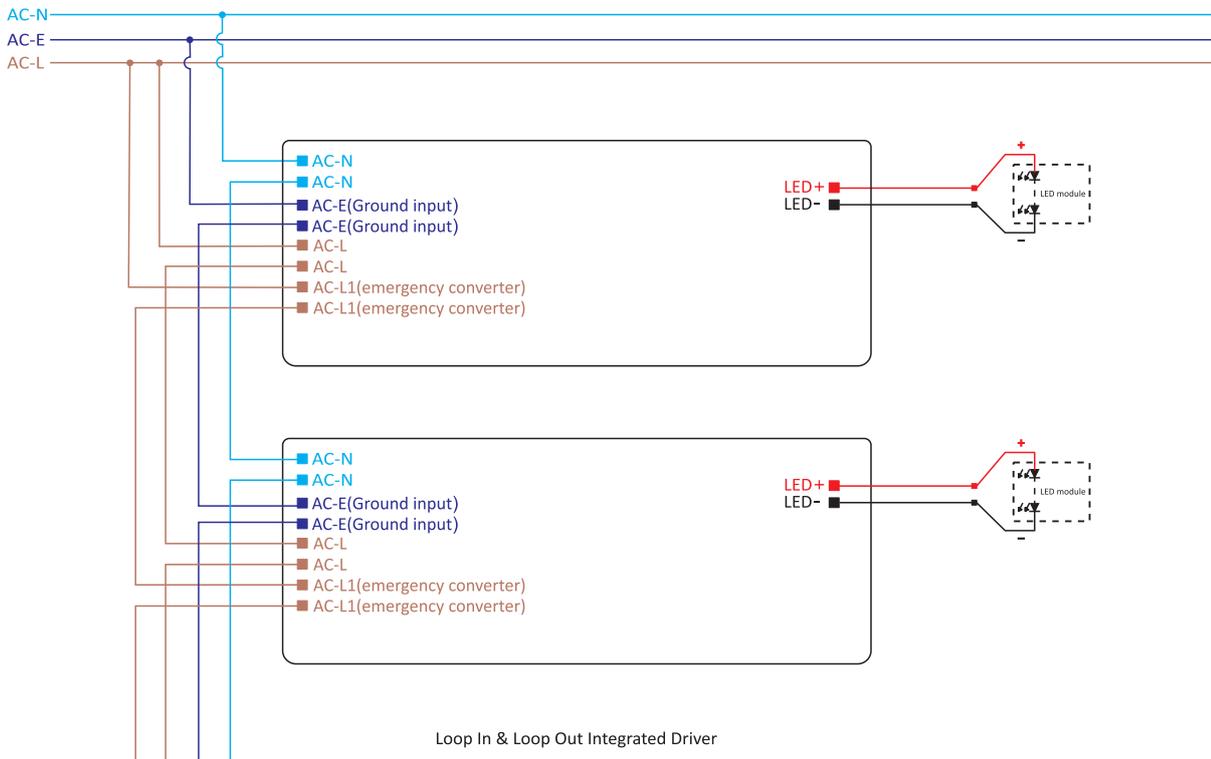
Surge

Model	I _{peak}	T _{width}	Relative number of MCB/pcs														
			B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23	B24
SAX01-118618	26A	220us	14	15	17	18	20	21	22	24	25	26	28	29	31	32	33

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



Wiring diagram



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Dimensions

Model: SAX01-118618

Dimensions: L189.5*W49*H26mm

Unit:mm

