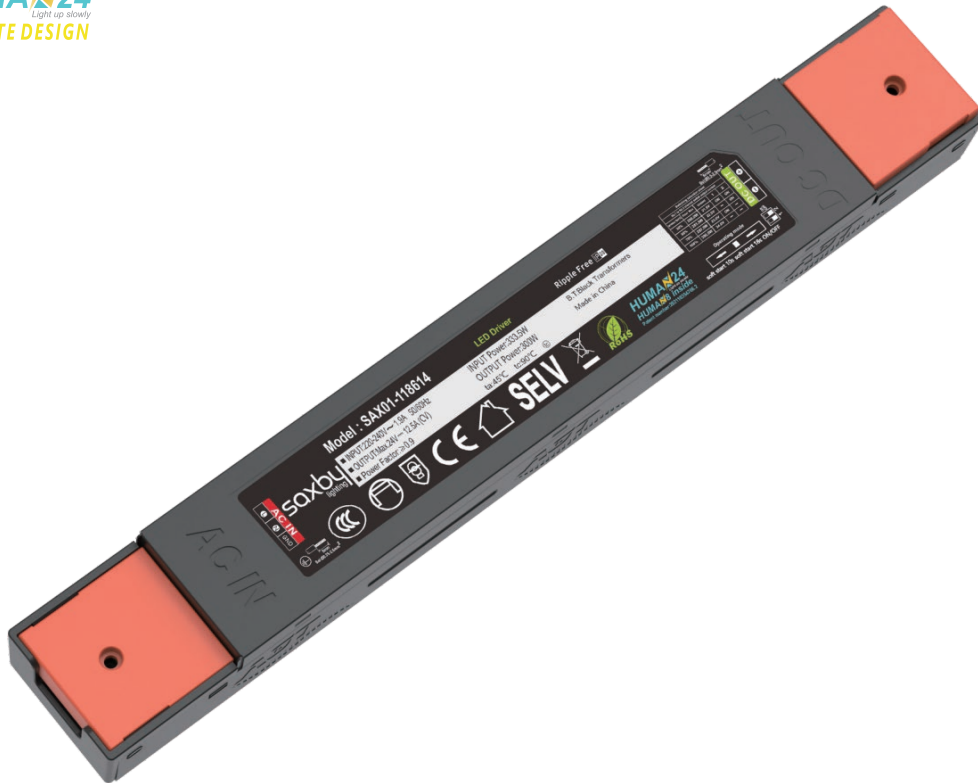


118614

LED Driver Constant Voltage 24V 300W Linear



Revolutionary

Soft Start

Constant Voltage LED Driver

About

Constant Voltage LED Driver

Saxby latest innovation in LED driver technology – the HUMAN24 series. Specifically designed to enhance user experience, this product boasts a unique feature: a gradual startup mode that ensures a gentle and comfortable illumination upon turning on the lights, protecting your eyes from the harsh glare often associated with immediate full brightness. The HUMAN24 series offers 3 adjustable settings: 10-second soft start, 18-second soft start, and standard instant startup for added flexibility.

- Eye Protection: With a focus on user well-being, the HUMAN24 series prioritizes eye comfort by minimizing the initial brightness shock and creating a soothing lighting experience.
- High Efficiency (EFF up to 92%): Our advanced technology ensures that this LED driver operates with remarkable efficiency, providing energy savings without compromising performance.
- Sealed Enclosure Design: The independent, fully enclosed housing effectively prevents dust ingress, ensuring a clean and reliable operation over time.
- Potting Technology: Internally, the driver utilizes potting technology, offering outstanding protection against moisture and making it highly suitable for use in humid environments.
- Flexible Power Adjustment: Tailor the lighting to your preferences with the HUMAN24 series, which allows you to easily adjust the power output according to your needs.
- Versatile Applications: This series is compatible with a wide range of LED lighting applications, including LED strips, panels, spotlights, downlights, and ceiling lights, making it suitable for various settings.
- Global Patents: Proudly holding global invention patents, the HUMAN24 series is the world's first of its kind, showcasing our commitment to cutting-edge innovation.
- Five-Year Warranty: For added peace of mind, we stand by the durability and reliability of our product by offering a five-year warranty.

Choose the HUMAN24 series for a revolutionary LED driver that not only delivers exceptional performance but also prioritizes user comfort and eye protection. Experience innovation, efficiency, and reliability in one groundbreaking product.

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Model list

Model	Power	Input voltage	Output voltage	Output current	Dimension	Soft start Mode	Power adjusted
SAX01-118614	269-300W	220-240V	21.5V-24V	12.5A	L296*W42*H28mm	18s+10s+ON/OFF	Yes

Technical data

Product model	SAX01-118614
Input parameters	
Rated input voltage range	220-240V
Limit voltage range	200-264V
Input current(Max)	1.9A Max
Operating frequency	50-60Hz
Power factor/phase shift factor	>0.95/@230Vac full load
Input THD	<15%@230Vac full load
Efficiency(max)	≥91%/@230Vac full load
In-rush current	30A/230Vac Max
Start/Switchover/Turn off	<10s/18s@230Vac full load
Switching cycles	More than 50,000 times
Power consumption	12%
Output parameters	
Rated output current range	12.5A
Rated output voltage range	21.5V-24V
Rated output power	269W-300W
No load output voltage	26V Max
Flicker-free(typical)	<0.03
Safety	
Withstand voltage	Input-output 3750V Input-output housing 1750V
Mains surge immunity	1KV
Leakage current	<5MA
Isolation resistance	100MΩ/500V
Environment & Life time	
Operating temperature	45°C
Case temperature	90°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

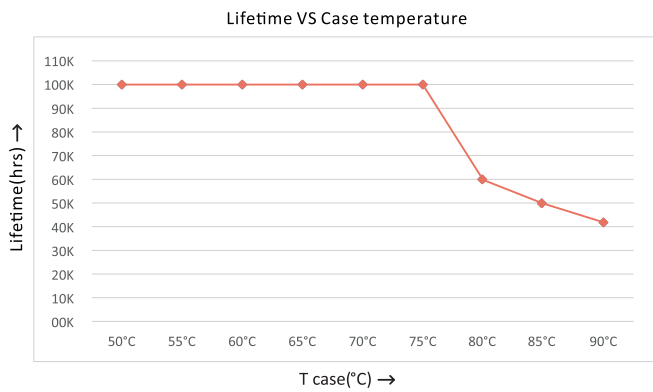
Electrical data controls input

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 ²
	20...12	AWG
Input wire stripped length	9...10	mm
Output wire cross-section	0.3...1.5	mm ²
	22...16	AWG
Output wire stripped length	8..9	mm

Expected lifetime

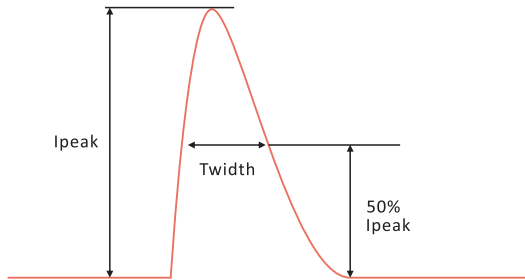


LED Driver Constant Voltage 24V 300W Linear

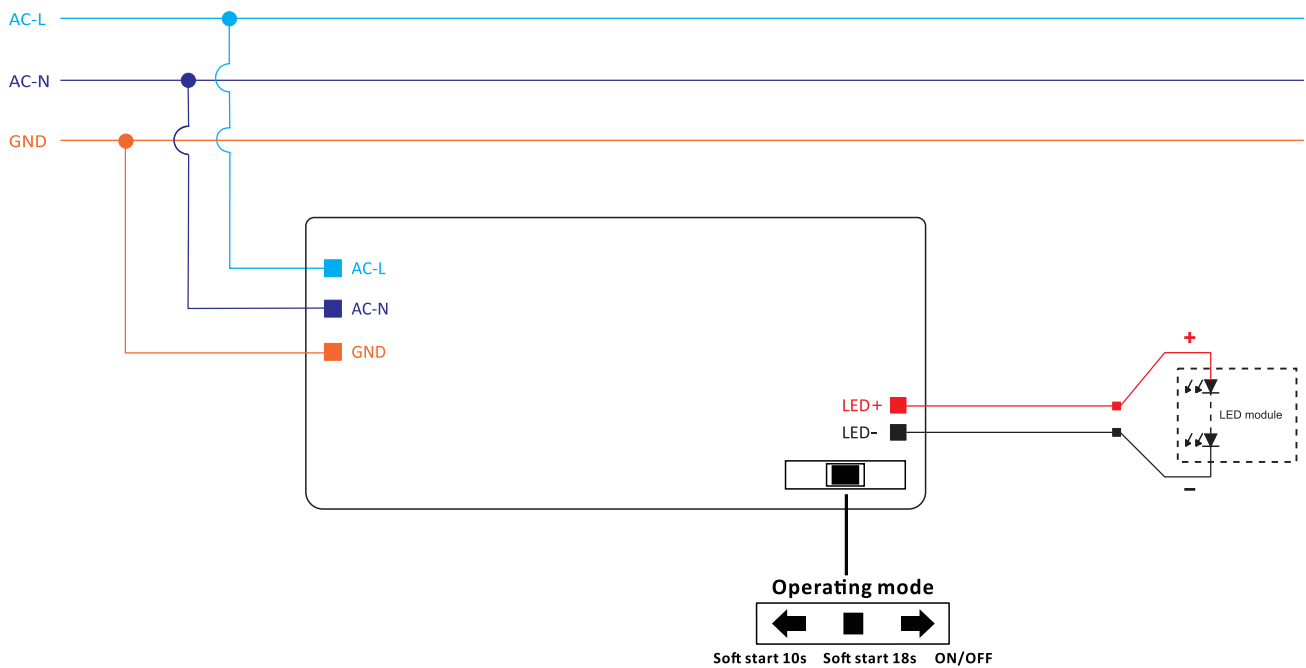
Surge

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
SAX01-118614	29A	220us	2	3	3	3	3	4	4	4	4	4	5	5	5	5	6

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



Wiring diagram



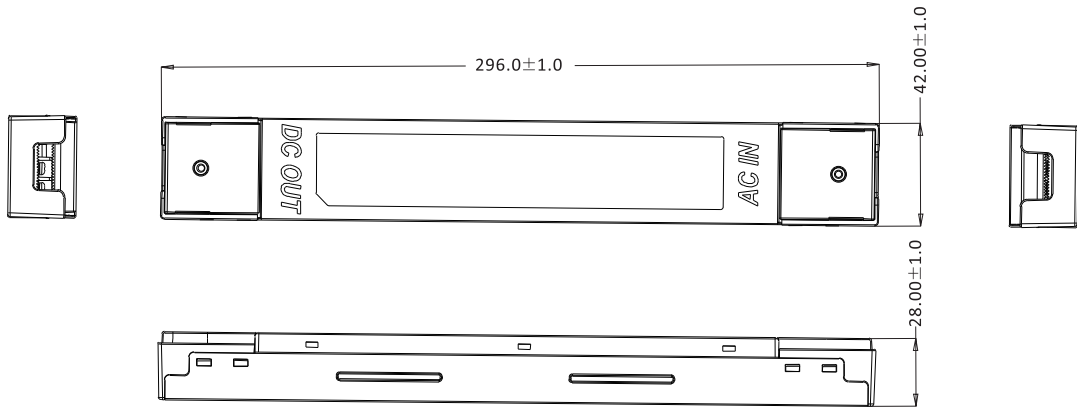
LED Driver Constant Voltage 24V 300W Linear

Dimensions

Model:SAX01-118614

Dimensions: L296*W42*H28mm

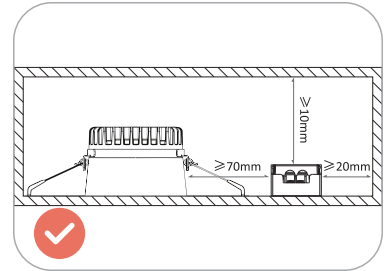
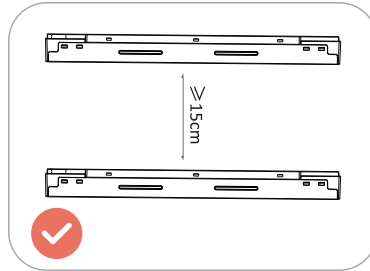
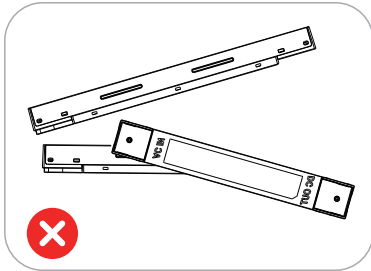
Unit:mm



LED Driver Constant Voltage 24V 300W Linear

Installation requirements

1. The two power supplies 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.



Installation

- LED driver should be installed in a dry, acid-free, fat-free, environment.
- The ambient temperatures should be below Ta.
- The temperature of the contact surface of the driver is lower than 40°C.
- Driver should be kept away from heating stuff such as the radiator of the lamp.
- There should be a distance of more than 10 cm between the driver and surrounding objects.
- The installation and replacement of driver should be performed by professional electricians.

Label

Model : SAX01-118614

LED Driver

Ripple Free IP20

AC IN

saxby lighting

INPUT: 220-240V ~ 1.9A 50/60Hz

OUTPUT: Max. 24V ~ 12.5A (CV)

Power Factor: ≥ 0.9

INPUT Power: 333.5W

OUTPUT Power: 300W

ta: 45°C tc: 90°C

B.T: Black Transformers

Made in China

Switching selection chart			
Not to be used in parallel with other control			
Input/Output	Input Max	Output	1 2
30%	269.0W	21.5V	ON ON
50%	281.5W	22.5V	ON ON
70%	287.5W	23.0V	ON ON
100%	300.0W	24.0V	ON ON

Operating mode

soft start 10s soft start 18s ON/OFF

SELV

HUMAN 24 HUMAN 8 inside

RoHS

4.5mm*4.5 mm

166.5mm*28.5 mm