Constant Voltage LED Power Supply SCL150-12VF/SCL150-24VF SCL150-48VF





Product description

The SCL150 series is a constant voltage LED driver for indoor . Its input voltage range is 198-264Vac, with a conversion efficiency of up to 93.5%. It adopts a fanless design and works at -20°C~+45°C. Naturally cooled chassis temperature range, ultra-high power factor, ultra-low total harmonic distortion, low standby power consumption, and all-round protection functions not only greatly improve the reliability of the product, but also ensure the product life cycle. This series of products is designed for LED lighting design and is used in indoor and outdoor lighting. Suitable for various application environments in almost all indoor places where LED lamps can be installed. Comply with CASAMBI dimming standard. Innovative thermal management technology intelligently protects power supply life.

Standards

EN61347-1 EN61347-2-13

EN61547

FN55015

EN61000-3-2

EN61000-3-3

EN62384

EN62493

Characteristics

- European AC input range (220-240VAC)
- With active PFC function
- Waterproof rating IP20
- CASAMBI dimming driver
- Built-in press dimming function
- Dimming range 1-100%
- Suitable for dry indoor environments
- Protection type: short circuit/over temperature/over voltage protection
- Plastic case
- Comply with world lighting equipment safety regulations
- 5 years warranty



Specifications

Model		SCL150-12VF	SCL150-24VF	SCL150-48VF			
Output	turn on time(S)	<0.5	<0.5	<0.5			
	output power(W)	132	150	150			
	output voltage(V)	12	24	48			
	output voltage tolerance	≤±5%	≤±5%	≤±3%			
	ripple voltage(mV)	150	240	480			
	Line Regulation	1%	1%	1%			
	Load Regulation	2%	1%	1%			
	working current range(A)	0-11	0-6.25	0-3.125			
	SVM	0.1					
	Pst	0.1					
	dimming type	YES					
	dimming range	1-100%					
	rated DC supply voltage(Vdc)	NA					
	rated supply voltage(Vac)	220-240					
	voltage range(Vac)	198-264					
	line frequency(Hz)	50/60					
	input current(A)	0.9					
	efficiency (TYPE)	92%@full load	93.5%@full load	93.5%@full load			
nput	average efficiency(TYPE) 3	91.5%	92.5%	92.5%			
	no load power consumption(W)	≤0.5W					
	power factor	0.95@full load					
	Displacement factor	0.95					
	THD(typ.) THD (Type)	4%					
	inrush current(lpk) (lpk)	80A/260uS					
	Leakage current (mA)	0.7@240Vac 60Hz					
	short circuit protection	hiccup mode, restart automatically after fault correction.					
	over load protection	exceed maximum rated load times 1.6					
	Over voltage protection	Yes(latch off)					
	Over temperature protection	Yes(latch off)					
Protectio	surge capacity	L-N: 1KV					
	Withstand voltage	Input-Output: 3000V/5mA/1min					
	Ta(C)	-2045					
	Tc max.(C)	max.85					



Ambient and Life	Storage Temperature(C)	-3080			
	ambient humidity range	5%85%RH, Not condensing			
	nominal life-time(hrs)	50'000@Ta			
	dimensions (L×W×H)(mm)	336.6mm*30mm*18.2mm			
	weight(g)	280			
Ollhar	casing material	Plastics			
Other	housing colour	white			
	type of protection	IP20			
	protection class	class II			
	certificate				

- 1. Tolerance: including setting tolerance, linear adjustment rate and load adjustment rate.
- 2. Tested under full load and 230Vac. Refer to the "Power Factor" and "Efficiency" graphs.
- 3. To calculate the average efficiency of the product, test the voltage at 100%, 75%, 50%, and 25% of the rated current, and then obtain the average of the four values through the arithmetic mean method.
- 4. All parameters not specifically mentioned are measured at rated voltage input, rated load and 25°C ambient temperature.
- 5. A power supply is a component used in conjunction with the final device. Since EMC performance will be affected by the complete installation, the final equipment manufacturer must reconfirm that the equipment after complete installation complies with the EMC directive.

PUSH push-type dimming (PUSH dimming only requires a single connection, and when multiple units are dimmed collaboratively, only APP settings are required).

Dimming: long press (dimming).

Switch: short press (ON/OFF).

Note

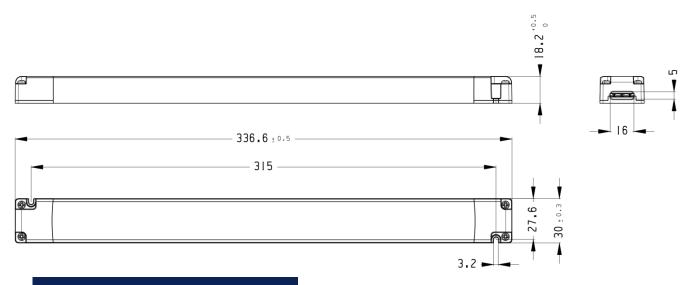
The frequency range is approximately 2402-2483 MHz, and the frequency is optional when establishing a network on the APP;

The transmitter power is 4dBm-8dBm, which is set at the factory and defaults to 8dBm. The official recommendation is maximum;

Encrypted information is not available. Casambi focuses on professional lighting control and security.

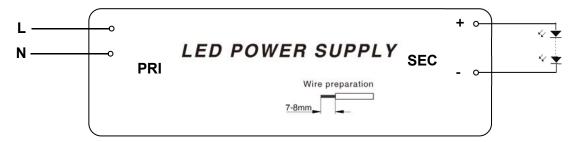


Dimensions(mm)

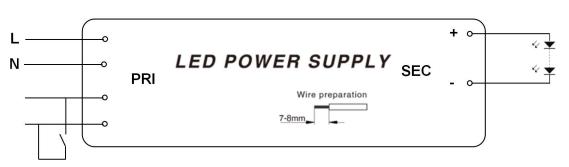


Wiring Diagram

CASAMBI



PUSH

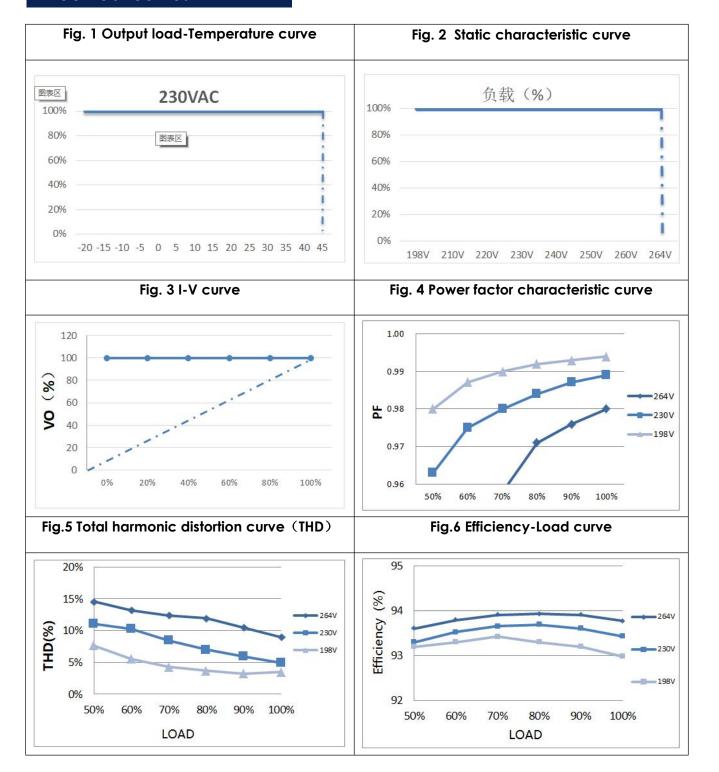


PUSH DIM

AC	H03VVH2-F 2*0.75mm ²
DC	H03VVH2-F 2*0.75mm2(24V/48V); + H03VVH2-F 2*0.75mm2 *2(12V



Electrical curves





MCBS

MCBS Model	B10	B13	B16	B20	C10	C13	C16	C20
SCL150-12/24/48VF	4	6	7	9	5	7	9	11

Package

Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SCL150-12/24/48VF			

Revision history

Date	Rev.	Remark
2023.9.20	A0	Initial Issue

