

18W Constant Voltage-LS Series



Features

- For luminaries of protection Class II, SELV, Independent
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.6C
- Efficiency: 86%
- 5 years warranty

Applications

- LED wall light

■ Approve

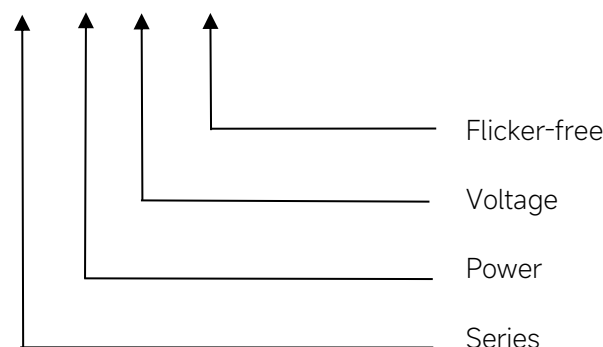
CE CB  CCC SELV

◆ Description

LS-18-XX SI is a 18W constant voltage LED driver that operates from 198-264Vac input with 12V or 24V output voltage. With it's dimensions from 92 x 36 x 25mm it is easy to integrate in LED wall light products. To ensure trouble-free operation, protection is provided against output short circuit, over load, over voltage and over temperature.

◆ Model code

LS-18-XX SI



◆ Specification

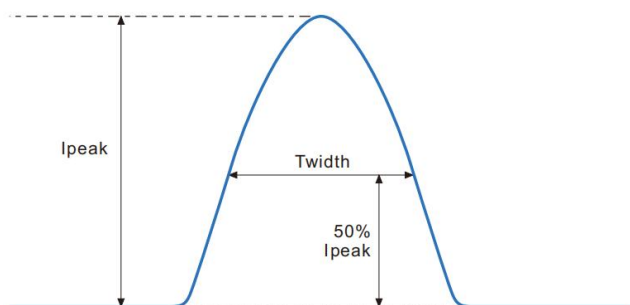
Output	Constant Voltage	12VDC	24VDC
	Current Range	0-1.5A	0-0.75A
	Voltage Accuracy	±5%	
	Output LF current ripple(≤120Hz)	±5%	
	SVM	≤0.4@Full load,230V	
	Pst	≤1@Full load,230V	
	Efficiency(Typ.)	86%@Full load,230V	
Input	Rated input voltage	220-240VAC	
	Range of input voltage	198-264VAC	
	Frequency(Hz)	50/60 Hz	
	Displacement factor	≥0.7@Full Load, 230VAC	
	Power Factor	0.6C@Full Load, 230VAC	
	Input Current max	0.18A MAX.	
	Start-up time	< 0.5S	
	No Load Power	≤0.5W	
Protection	Over Load Protection	103-130%	
		YES/Auto Resume	
	Over Voltage Protection	> 12.6VDC	> 25.2VDC
		YES/Auto Resume	
	Short Circuit Protection	YES/Auto Resume	
Capability	Over Temperature Protection	YES/Auto Resume	
	Surge capability (L-N)	1KV	
	Surge capability (L/N-Ground)	NA	
Withstand voltage	Input-Output/Ground	3750V/5mA/60S	
Environment	Operating Temperature	-20°C~+45°C	
	Humidity	20%-90%RH	
	Tc	75°C	
	Storage Temperature	-20°C~+75°C	
	Life time	> 50000h@Tc=65°C	
	Ripple & Noise	≤25dB(A)@20cm	
Surface	Dimension	92X36X25 (LXWXH)mm	
	Material	PP	
Standards	Safety	GB19510. 1, GB19510. 14;EN61347- 1, EN61347-2- 13	
	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-5	
	ErP	EU 2019/2020	
	RoHS	RoHS (2011/65/EU) (EU)2015/863	

Note

- 1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature.
- 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- 3.The efficiency testing will be affected by the instrument used and the results may also be different.
- 4.All Eaglerise power supply are complied with EMI regulations. Since they are belong to component and will be installed inside system enclosure. When they are integrated into a system, the EMI characteristics of the system must be re-verified again.
- 5.75%-100% load can satisfy the harmonic requirement.

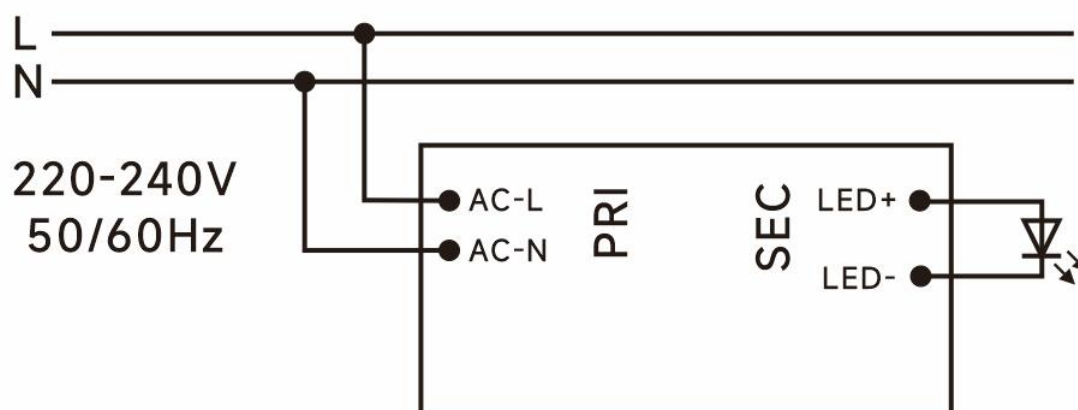
◆ Inrush Current

I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
12.2A	100μs	44pcs	71pcs	88pcs	44pcs	71pcs	88pcs

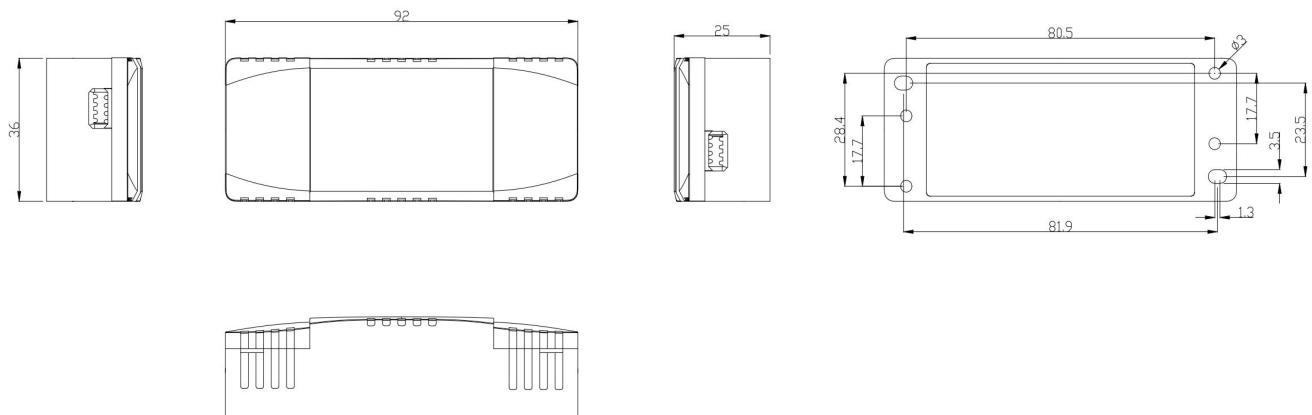

Remarks:

- 1.The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.
- 2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

◆ Wiring diagram



◆ 2D diagram



◆ Wiring & Connections

Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm ²
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm ²
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

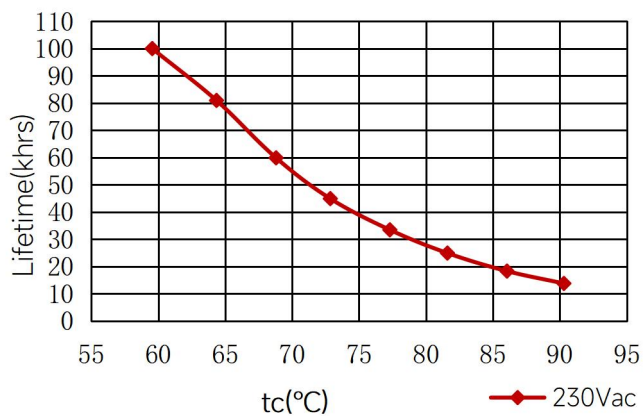
Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

◆ Packaging

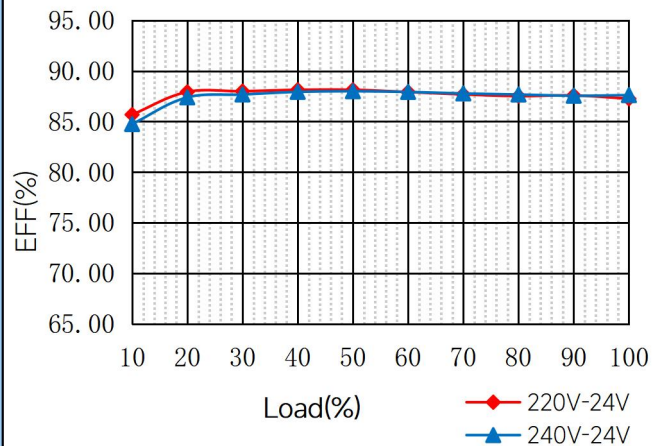
Model	Product Dimensions(mm)	weight/ piece(Kg)	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
LS-18-XX SI	92 x 36 x 25mm	0.046	380 x 285 x 230mm	180	8.28	8.64

◆ Curve for LS-18-24 SI

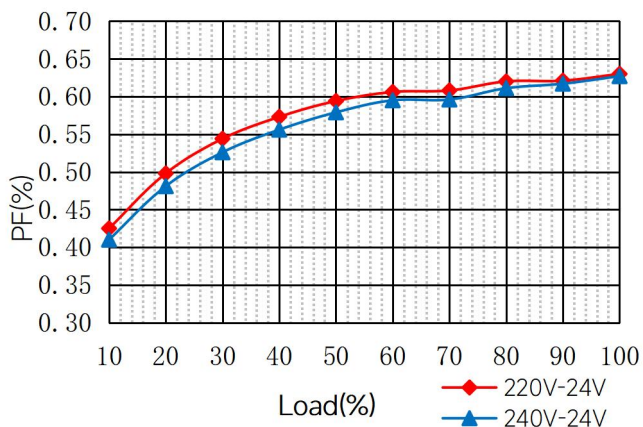
Lifetime vs. Temperature Curve



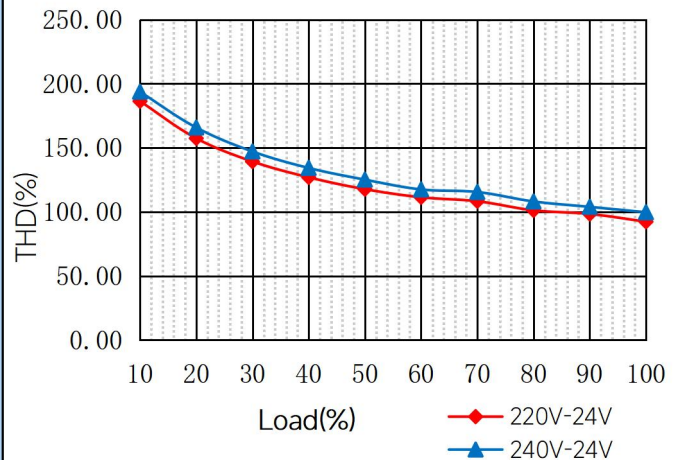
Efficiency vs. Load



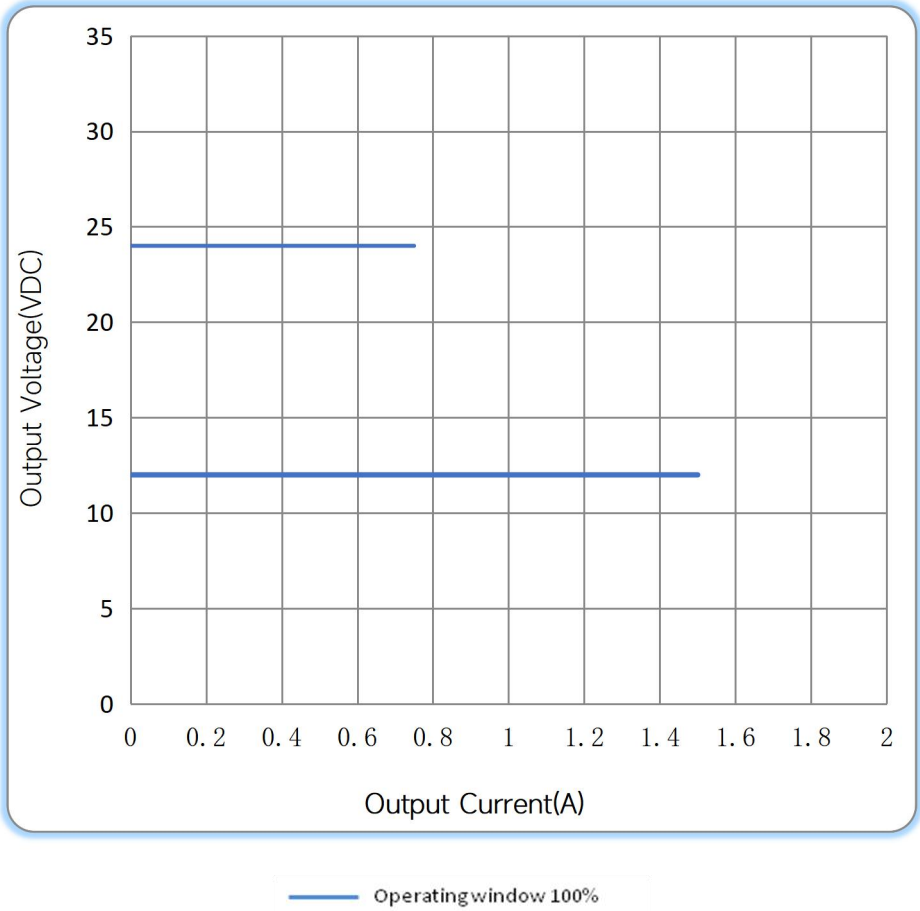
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2026/01/04
Over Load Protection	103-120%	103-130%	B	2026/05/14

Remark:The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

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