30W constant Voltage-LS Series



Features

- Class II，SELV，Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor：≥0.95（Typ.）
- Efficiency：≥85%（Typ.）
- 5 years warranty

Applications

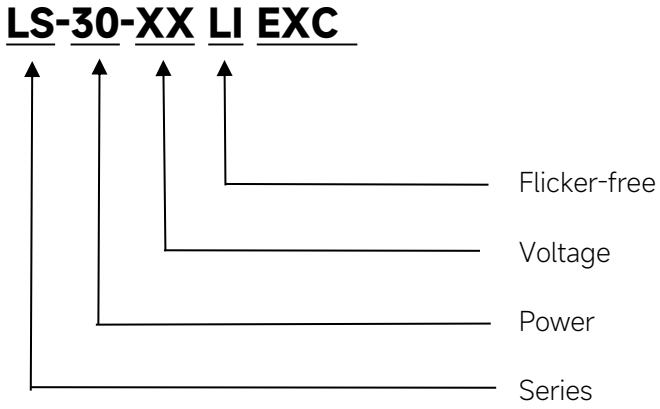
- LED strips

■Approve

◆ Description

LS-30-XX LI EXC is a 30W constant voltage LED driver that operates from 198-264Vac input with 12V or 24V output voltage. With it's compact dimensions from 136 x 38 x 28 mm. It is easy to integrate in LED strips products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code



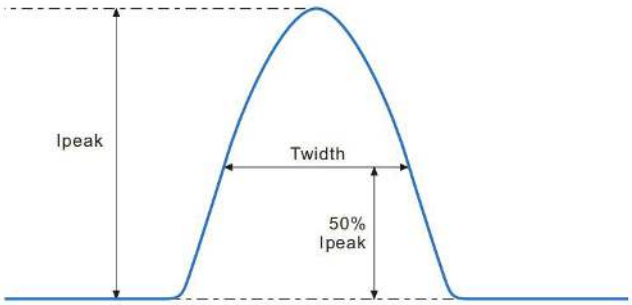
◆ Specification

Output	Constant Voltage	12VDC	24VDC
	Current Range	0-2.5A	0-1.25A
	Voltage Accuracy	±5%	
	Output HF current ripple(≥1KHz)	±1%	
	Output LF current ripple(≤120Hz)	±1%	
	SVM	≤0.4	
	Pst	≤1	
	Efficiency(Typ.)	≥85%@Full load,230V	
Input	Rated input voltage	220-240V	
	Range of input voltage	198-264VAC	
	Range input voltage(VDC)	176-280VDC	
	Frequency(Hz)	0/50/60 Hz	
	Displacement factor	≥0.95	
	Power Factor	≥0.95	
	Input Current max	0.20A	
	Start-up time	< 0.5S	
	No Load Power	≤0.5W	
	THD (Typ.)	< 10%	
Protection	Over Load Protection	105-150%	
		YES/Auto Resume	
	Over Voltage Protection	> 12.6VDC	> 25.2VDC
		YES/Auto Resume	
	Short circuit Protection	YES/Auto Resume	
	Over Temperature Protection	YES/Auto Resume	
capability	Surge capability (L-N)	1KV	
	Surge capability (L/N-Ground)	2KV	
Environment	Operating Temperature	-20℃~+45℃	
	Humidity	20%-90%RH	
	Tc	75℃	
	Storage Temperature	-20℃~+60℃	
	Life time	> 50000h@Tc=75℃	
	Ripple & Noise	≤20dB(A)@20cm	
Surface	Dimension	136X38X28(LXWXH)mm	
	material	PC	
Standards	Safety	GB19510. 1, GB19510. 14;IEC61347- 1, IEC61347-2- 13;EN61347- 1, EN61347-2-13;EN62384;	
	EMC	GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-5;EN61000-4-2,3,4,5,6,8,11, EN61547	

	Energy Efficiency	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1.All parameters NOT specially mentioned are measured at 240VAC input , full load and 25℃ of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. 3.Switch and dimmer are not recommended to connect between this product output and luminaries.	

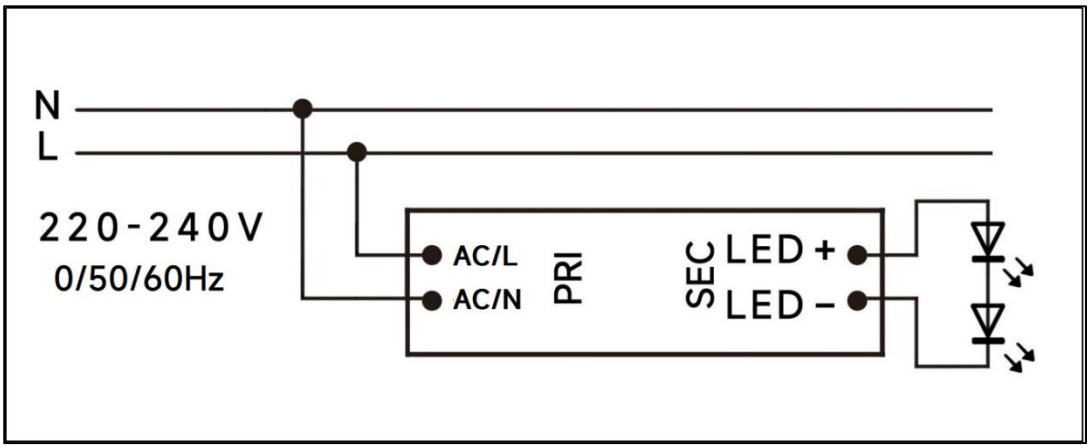
◆ Inrush Current

I^{peak}	Twidth	B10	B16	B20	C10	C16	C20
18.6A	**144μs**	31pcs	49pcs	62pcs	40pcs	64pcs	80pcs

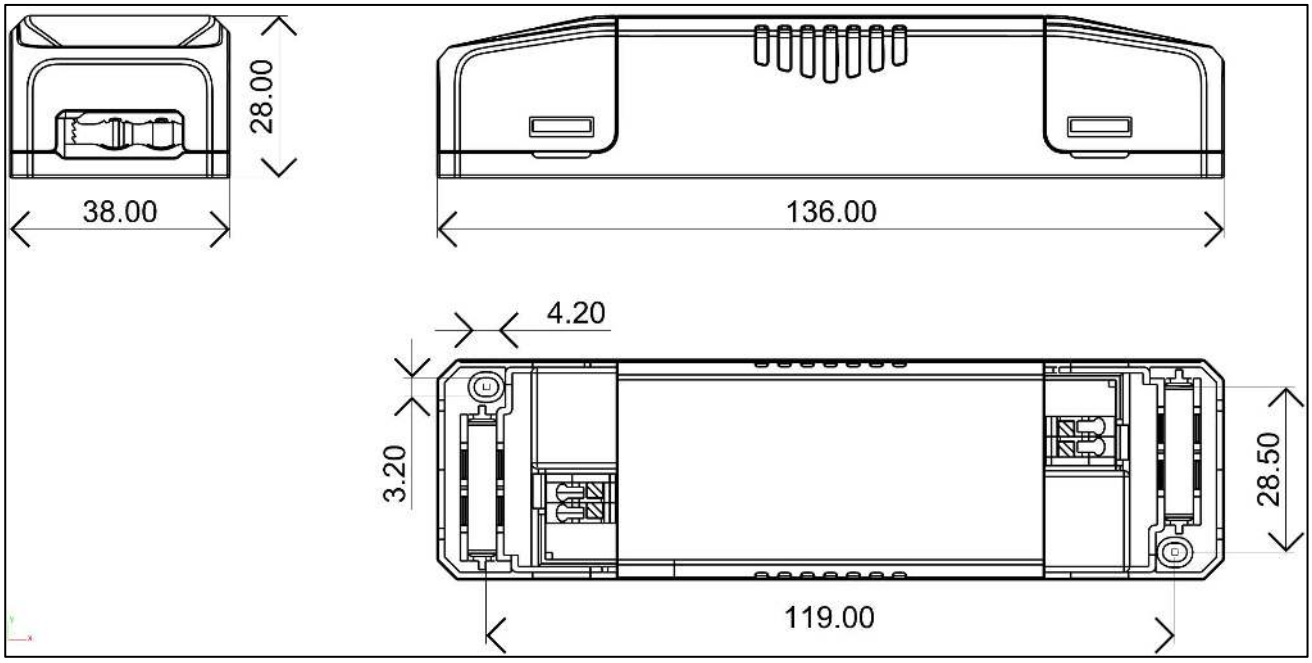


Remarks:
1.The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.
2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

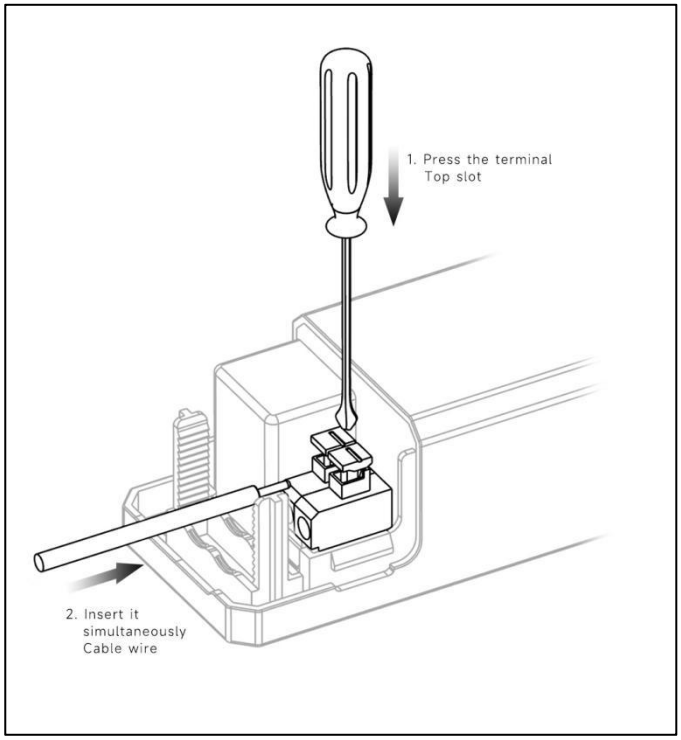
◆ Wiring diagram



◆ 2D diagram



Termina

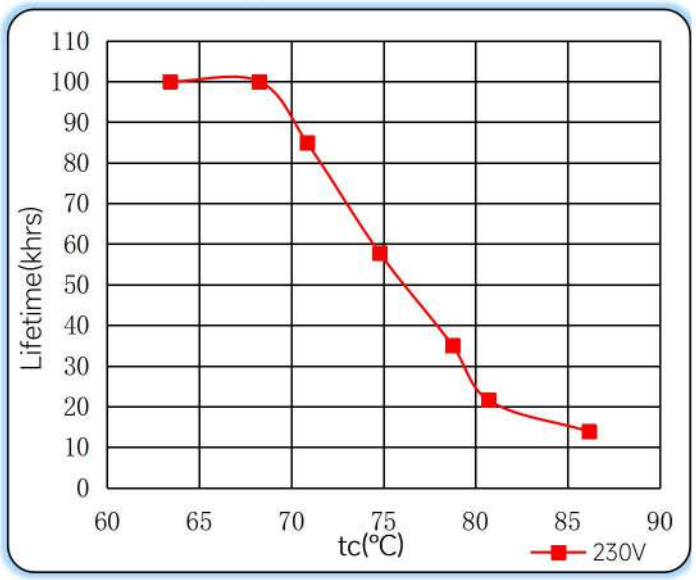


◆ Wiring & Connections

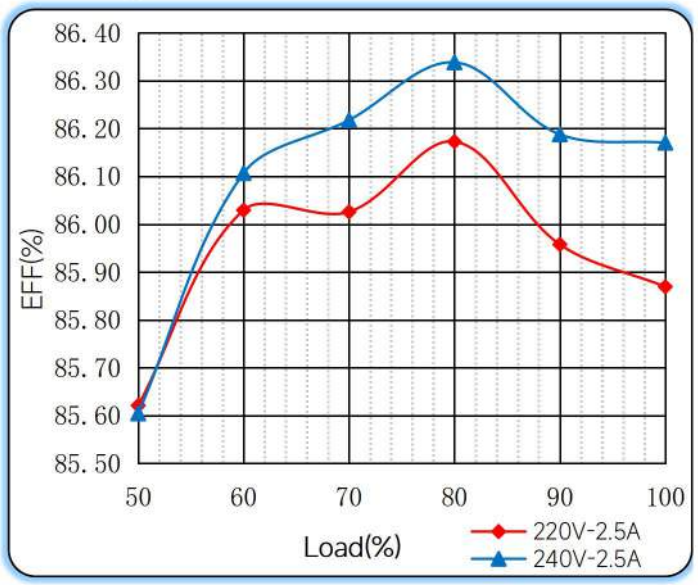
Specification item		Value （Unit ）
Input	Input wire cross-section	0.5...1.5 mm^2
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm^2
	Output wire gauge.	16...20 AWG
	Output wire strip length	7...9mm

◆ Curve for LS-30-12 LI EXC

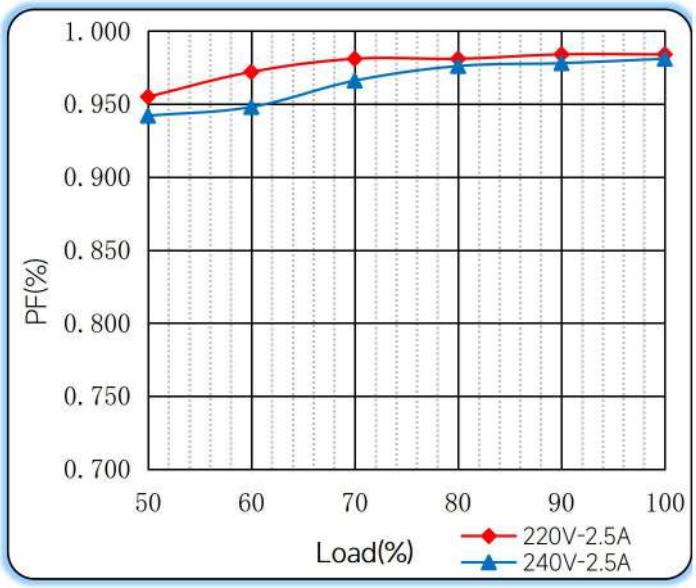
Lifetime vs. Temperature Curve



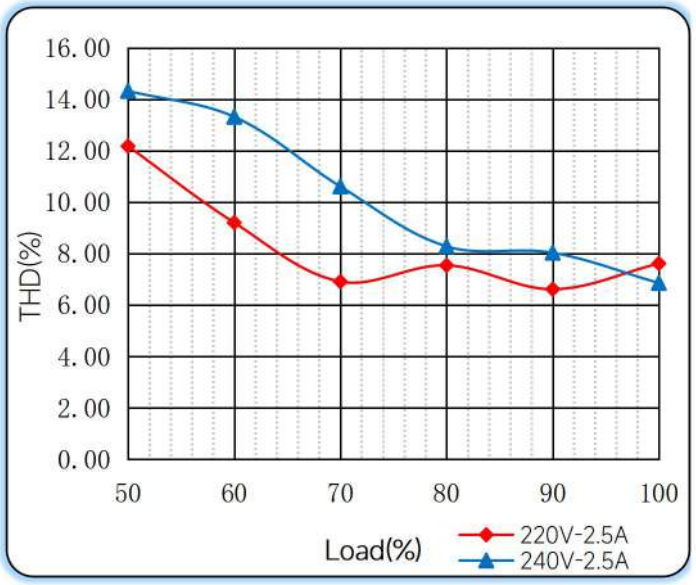
Efficiency vs. Load



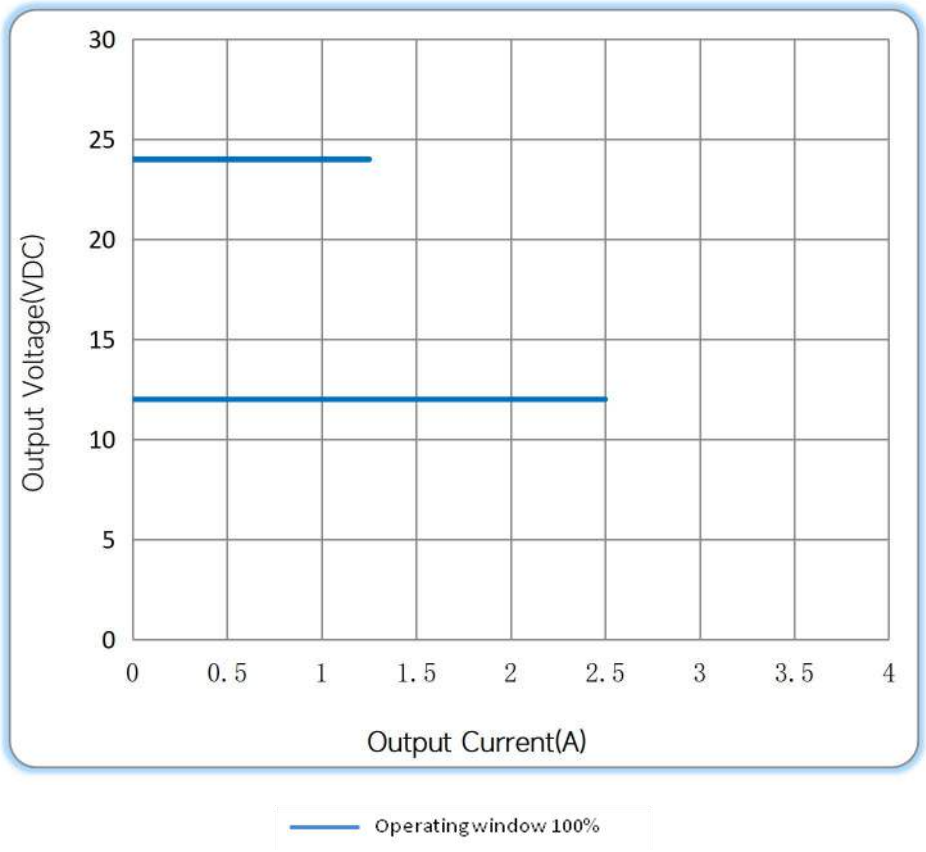
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2023/07/12

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

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