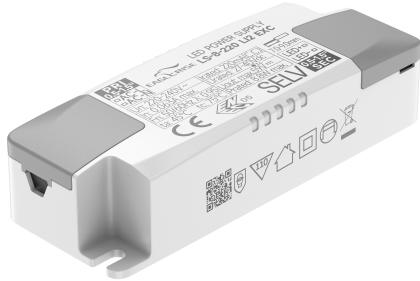


8W Constant Current power supply



■ Approve



Features

- For luminaires of protection Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor :0.95
- Efficiency: 68-79%
- 5 years warranty

Applications

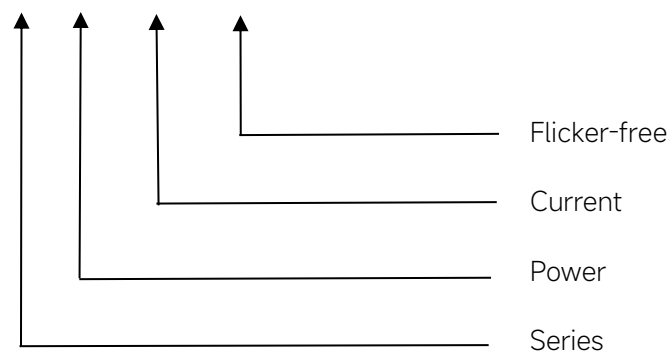
- LED panel, LED down light
- LED spot light

◆ Description

LS-8-XXX LI2 EXC is a 8W constant current LED driver that operates from 198-264Vac input with 70 to 220mA output current. With it's compact dimensions from 92 x 36 x 25mm it is easy to integrate in LED Panel, spot, down lights. To ensure trouble-free operation, protection is provided against output short circuit, over load, over voltage and over temperature.

◆ Model code

LS-8-XXX LI2 EXC



◆ Specification

Output	Constant Current (mA)	70	120	150	160	180	200	220
	Voltage Range(VDC)	27-42VDC					27-40VDC	
	Unload voltage Max.(VDC))	59VDC						
	Current Accuracy	±10%			±9%		±7%	
	Output HF current ripple(≥1KHz)	±5%						
	Output LF current ripple(≤120Hz)	±3%						
	SVM	≤0.4						
	P _{st}	≤1						
	Efficiency(Typ.)	68%	75%	75%		78%	78%	79%
Input	Rated input voltage	220-240VAC						
	Range of input voltage	198-264VAC						
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition						
	Frequency(Hz)	50/60 Hz						
	Displacement factor(Typ.)	≥0.9						
	Power Factor	0.9	0.92	0.95				
	Input Current max	0.025A	0.04A	0.048A	0.051A	0.055A	0.058A	0.063A
	Start-up time	< 0.5S						
	No Load Power	≤0.5W						
	THD (Typ.)	< 20%					< 20%	
Protection	Over Load Protection	103-130%						
		YES/Auto Resume						
	Over Voltage Protection	59VDC						
		YES/Auto Resume						
	Short Circuit Protection	YES/Auto Resume						
capability	Surge capability (L-N)	1KV						
	Surge capability (L/N-Ground)	NA						
Environment	Operating Temperature	-20℃~-+45℃						
	Humidity	10%-90%RH						
	Tc	75℃						
	Storage Temperature	-25℃~-+60℃						
	Life time	> 50000h@Tc=75℃						
	Noise	≤20dB(A)@10cm						
Surface	Dimension	92x36x25mm						
	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						

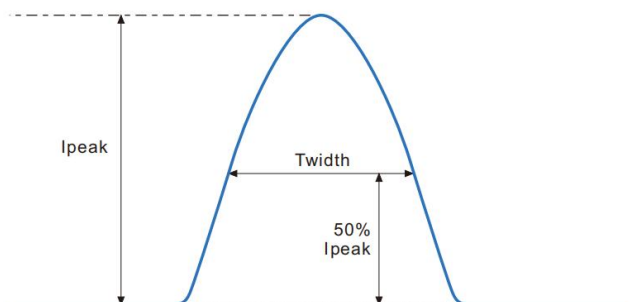
	Energy Efficiency	Erp2.0 EU 2019/2020
	RoHS	RoHS (2011/65/EU) (EU)2015/863
Note	1.All parameters not specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. 3.Switch and dimmer are not recommended to connect between this product output and luminaries. 4.The over-temperature protection of the product is provided by the IC. 5.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.	

◆ Model list

Number	Model number	Input			Output			
		Voltage (VAC)	Current (A)	Frequency (Hz)	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	LS-8-70 LI2 EXC	220-240	0.025	50/60	70	27-42	59	3
2	LS-8-120 LI2 EXC		0.04		120			5
3	LS-8-150 LI2 EXC		0.048		150			6.3
4	LS-8-160 LI2 EXC		0.051		160			6.7
5	LS-8-180 LI2 EXC		0.055		180			7.6
6	LS-8-200 LI2 EXC		0.058		200	27-40		8
7	LS-8-220 LI2 EXC		0.063		220			8.8

◆ Inrush Current

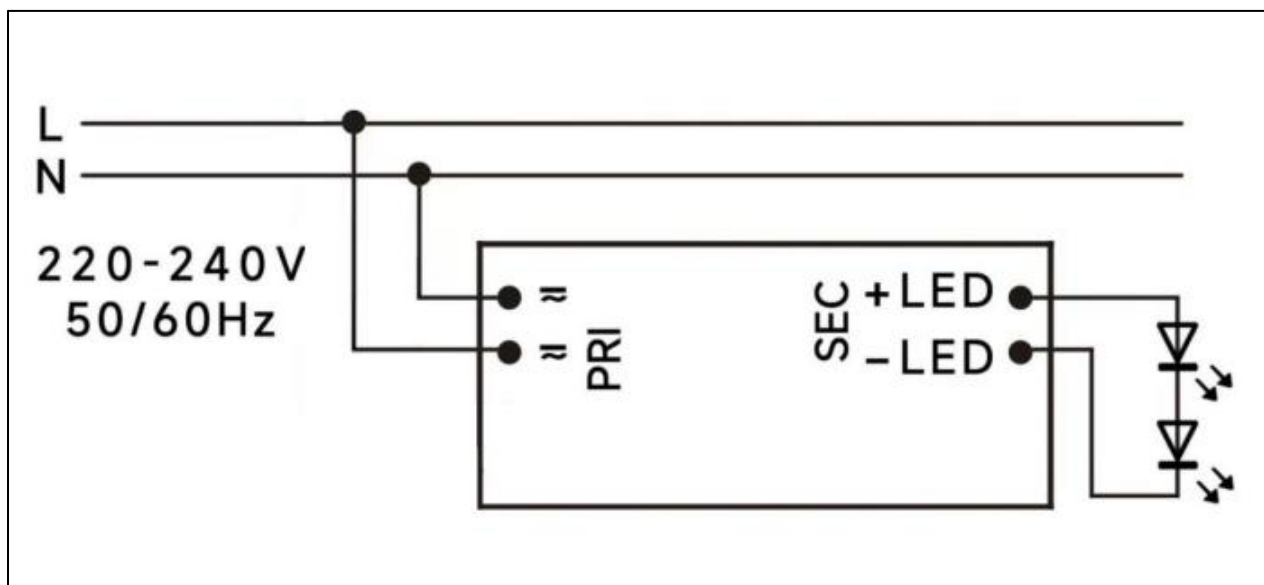
I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
4.96A	116.8 μ s	126pcs	203pcs	253pcs	126pcs	203pcs	253pcs



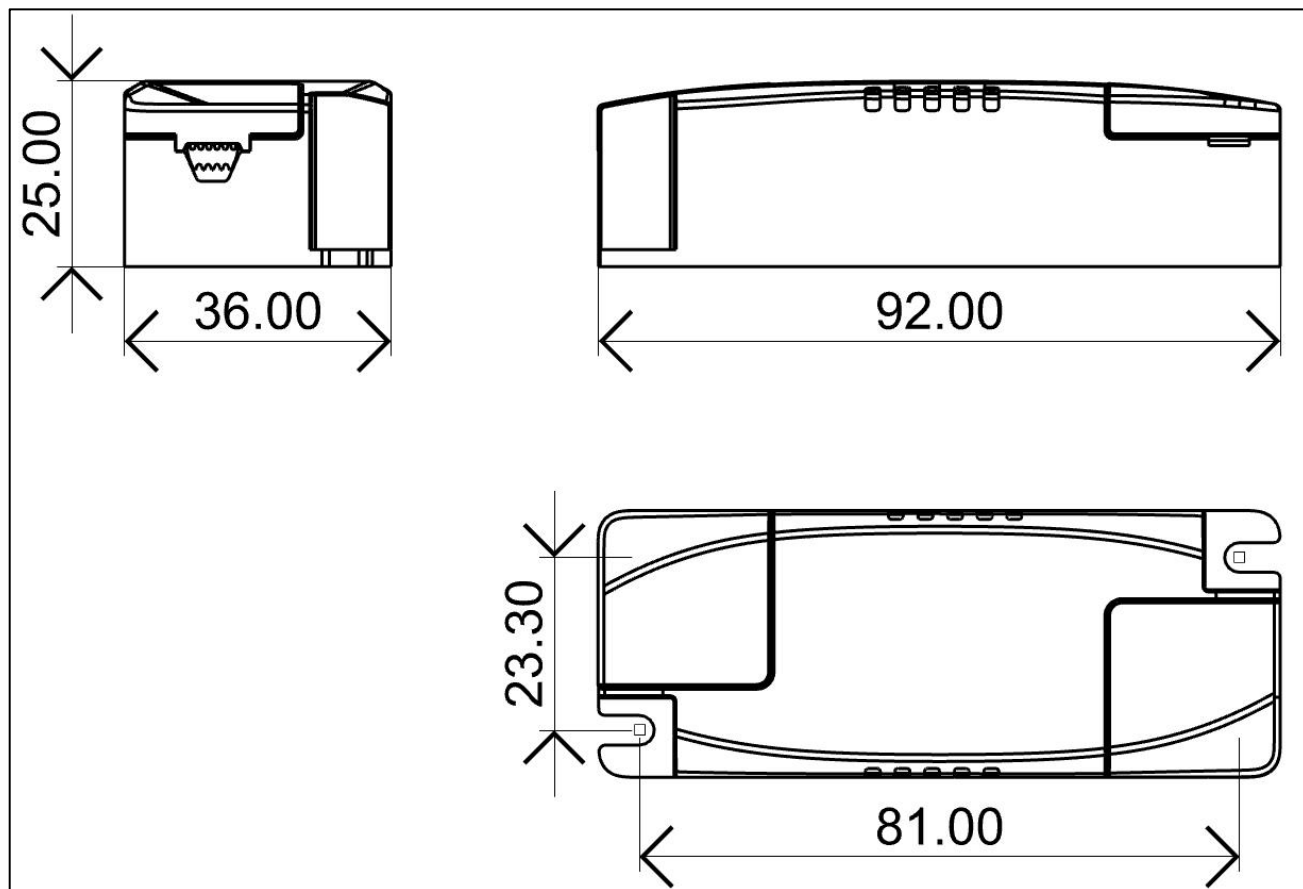
Remarks:

- 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.

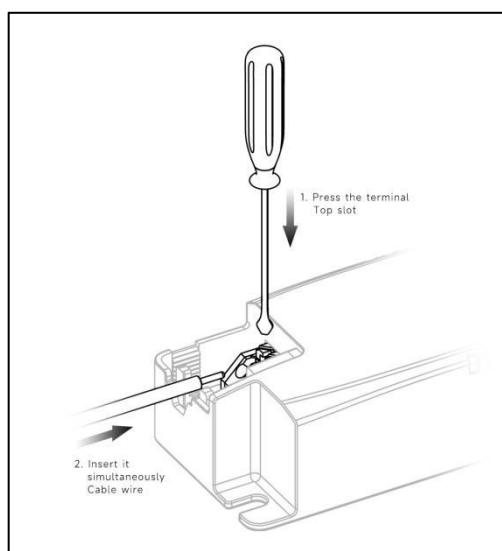
◆ Wiring diagram



◆ 2D diagram



Terminal



◆ 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

◆ Recommended wire

Wire cross-section	Wire type
2*0.5mm ²	H03VVH2-F 2core
2*0.75mm ²	H03VVH2-F 2core
1.5mm ²	CCC 08(RV-90)
16AWG(1.25mm ²)	UL1015

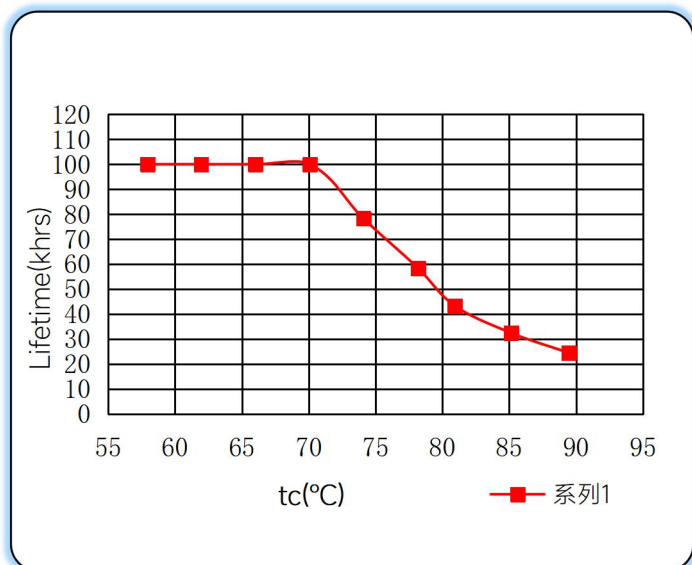
Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

◆ Packaging

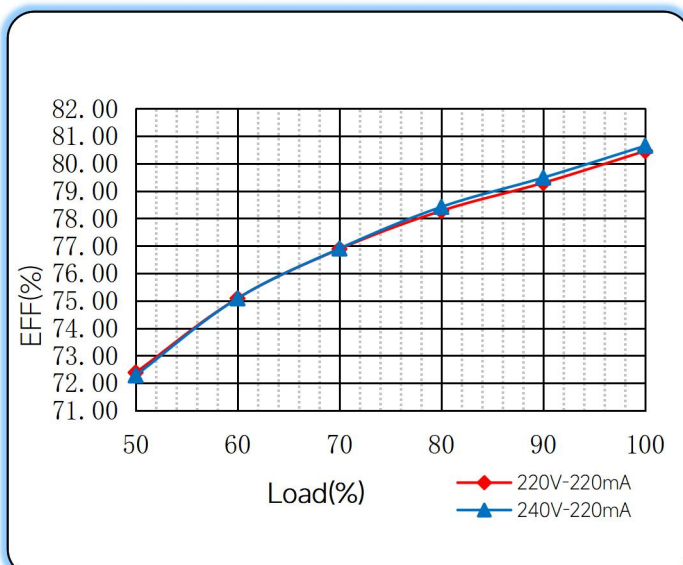
Model	Product Dimensions(mm)	weight/ piece(Kg)	Outer carton dimension(mm)	Quantity/carton	Net weight/carton(Kg)	Gross weight/carton(Kg)
LS-8-XXX LI2 EXC	92 x 36 x 25mm	0.043	370 x 275 x 215mm	180	7.8	8.5

◆ Curve for LS-8-220 LI2 EXC, $I_o=220mA$

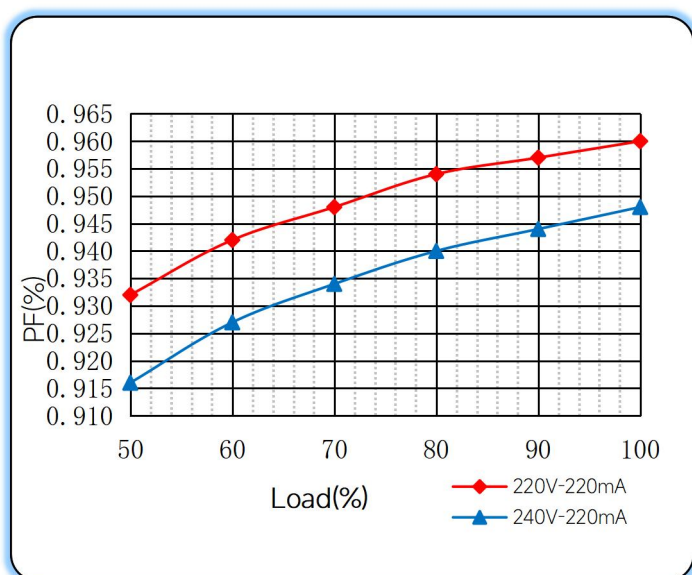
Lifetime vs. Temperature Curve



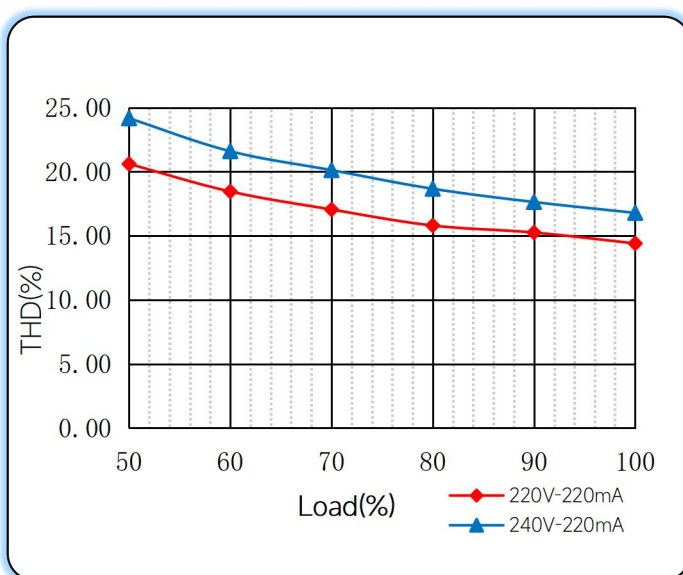
Efficiency vs. Load



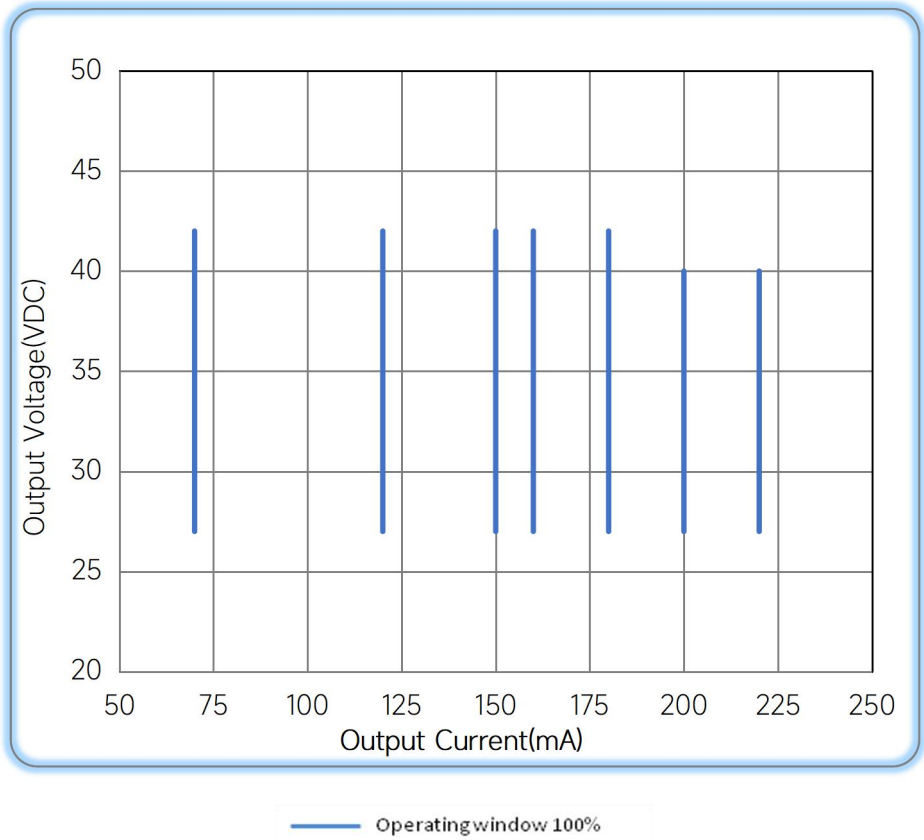
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2024/01/09
Current Accuracy	±7%@120-180mA ±5%@200-220mA	±9%@120-180mA ±7%@200-220mA	B	2025/11/21

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

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