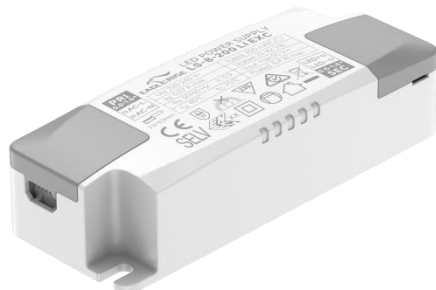


8W Constant Current power supply



Features

- Class II, SELV, independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OVP
- Power Factor : 0.8C-0.95
- Efficiency: 80%
- 5 years warranty

Applications

- LED panel, LED down light
- LED spot light

Approve

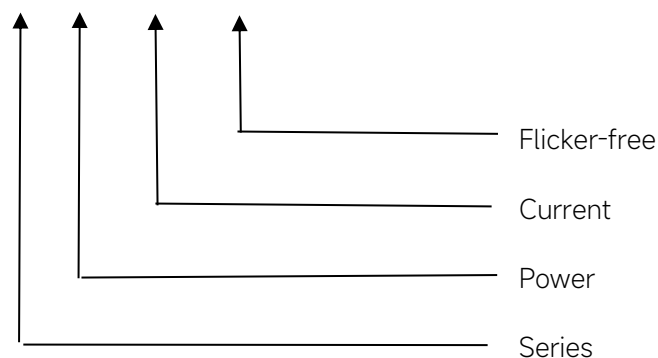


◆ Description

LS-8-XXX LI EXC is a 8W constant current LED driver that operates from 198-264Vac input with 120 to 350mA output current. With it's compact dimensions from 100 x 38.2 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 and over Load.

◆ Model code

LS-8-XXX LI EXC



◆ Specification

Output	Constant Current (mA)	120	150	180	200	220	250	300	350
	Voltage Range(VDC)	27-50		22-42			14-27		12-24
	Unload voltage Max.(VDC))	59		55			45		35
	Current Accuracy	±7%							
	Output HF current ripple(≥1KHz)	±5%							
	Output LF current ripple(≤120Hz)	±3%							
	SVM	≤0.4							
	P _{st}	≤1							
	Efficiency(Typ.)	80%@Full load,230V							
Input	Rated input voltage	220-240VAC							
	Range of input voltage	198-264VAC							
	Frequency(Hz)	50/60 Hz							
	Displacement factor(Typ.)	≥0.9@Full load,230V							
	Power Factor	0.8C-0.95							
	Input Current max	0.07A							
	Start-up time	< 0.5S							
	No Load Power	≤0.5W							
	Inrush Current	20A Max@230V, Full Load							
	THD (Typ.)	< 20% @Full load,230V							
	Protection	Over Load Protection	103-130%						
YES/Auto Resume									
Over Voltage Protection		59VDC		55VDC			45VDC		35VDC
		YES/Auto Resume							
Short circuit Protection		YES/Auto Resume							
Environment	Operating Temperature	-20°C~+55°C							
	Humidity	10%-90%RH							
	Tc	75°C							
	Storage Temperature	-25°C~+60°C							
	Life time	> 50000h@Tc=75°C							
Surface	Dimension	100x38.2x25mm							
Standards	EN 61547;EN 61347-1,EN 61347-2-13;IEC 61347-1,IEC 61347-2-13;GB 19510.1,GB 19510.14; GB/T 17743,GB 17625.1;EN 62384;EN IEC 55015,EN IEC 61000-3-2,EN 61000-3-3;IS 15885 (Part 2/Sec13)								
Others	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 & 47 uF parallel capacitor.
- 3.Data are typical values obtained from test samples
- 4.Switch and dimmer are not recommended to connect between this product output and luminaries.
- 5.The series BIS certification includes 150、180、200、300、350mA

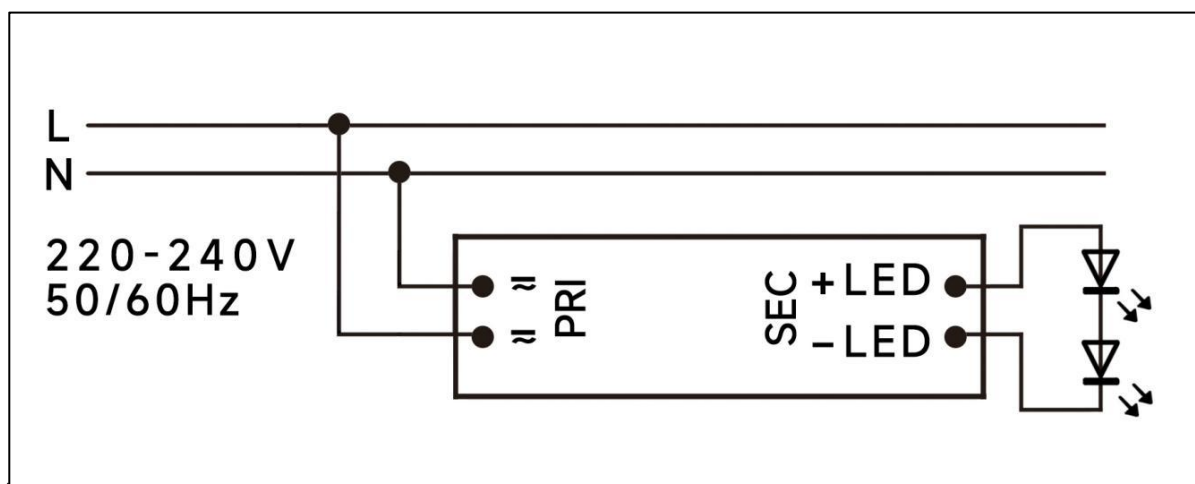
◆ Model list

Number	Model number	Input			Output			
		Voltage (VAC)	Current (A)	Frequency (Hz)	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	*LS-8-120 LI EXC	220-240	0.07	0/50/60	120	27-50	59	6
2	*LS-8-150 LI EXC				150			7.5
3	*LS-8-180 LI EXC				180			7.5
4	*LS-8-200 LI EXC				200	22-42	55	8.4
5	*LS-8-220 LI EXC				220			9.24
6	LS-8-250 LI EXC				250			6.8
7	*LS-8-300 LI EXC				300	14-27	45	8.1
8	*LS-8-350 LI EXC				350			8.4

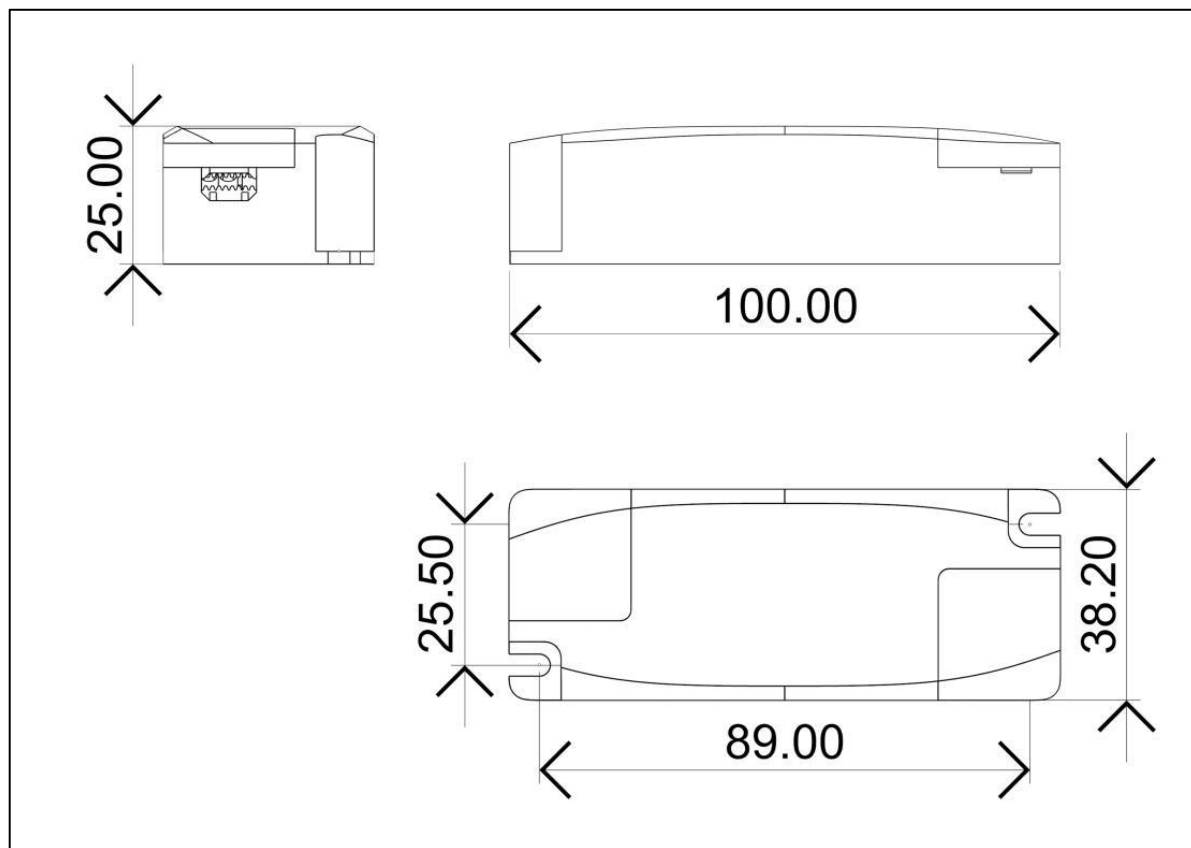
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
2.44A	38μs	114pcs	182pcs	228pcs	114pcs	182pcs	228pcs

◆ Wiring diagram



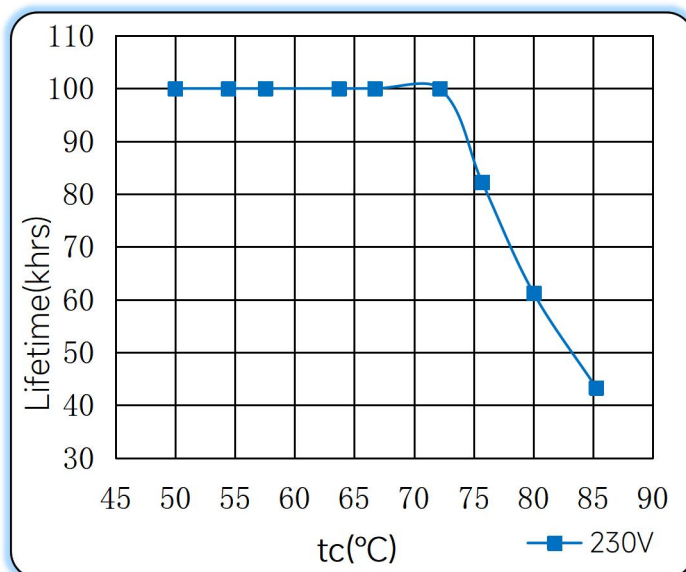
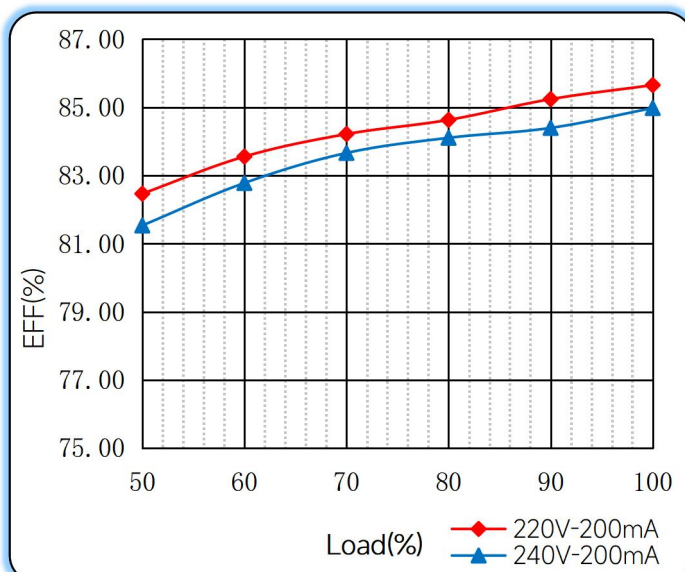
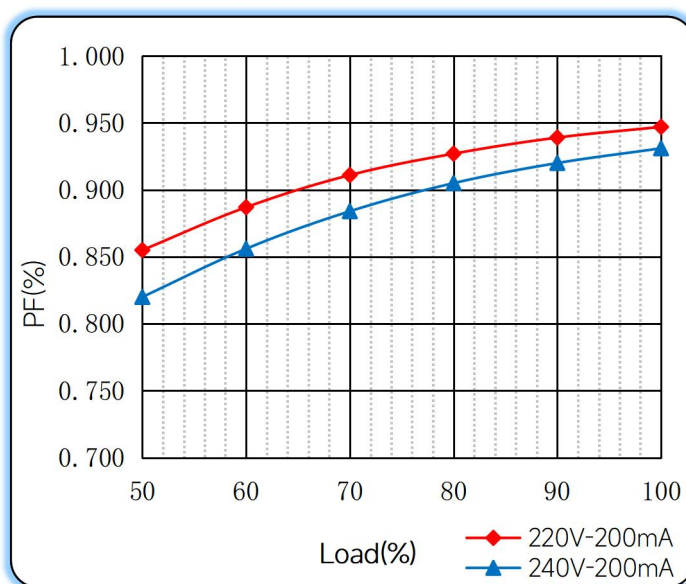
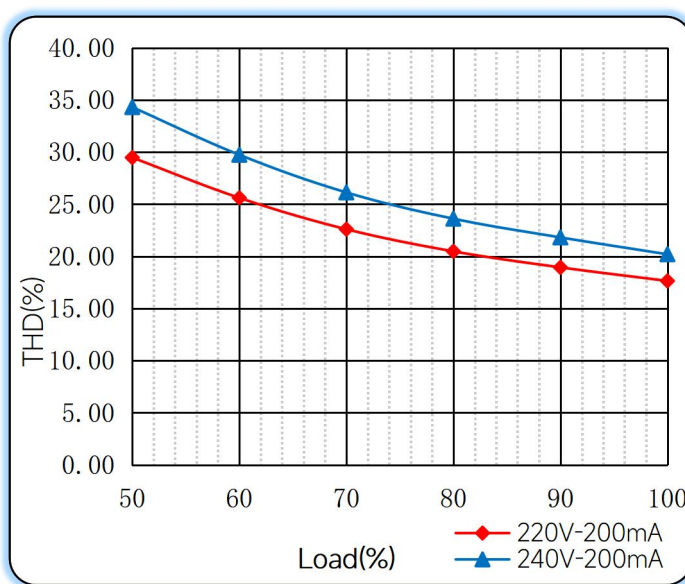
◆ 2D diagram



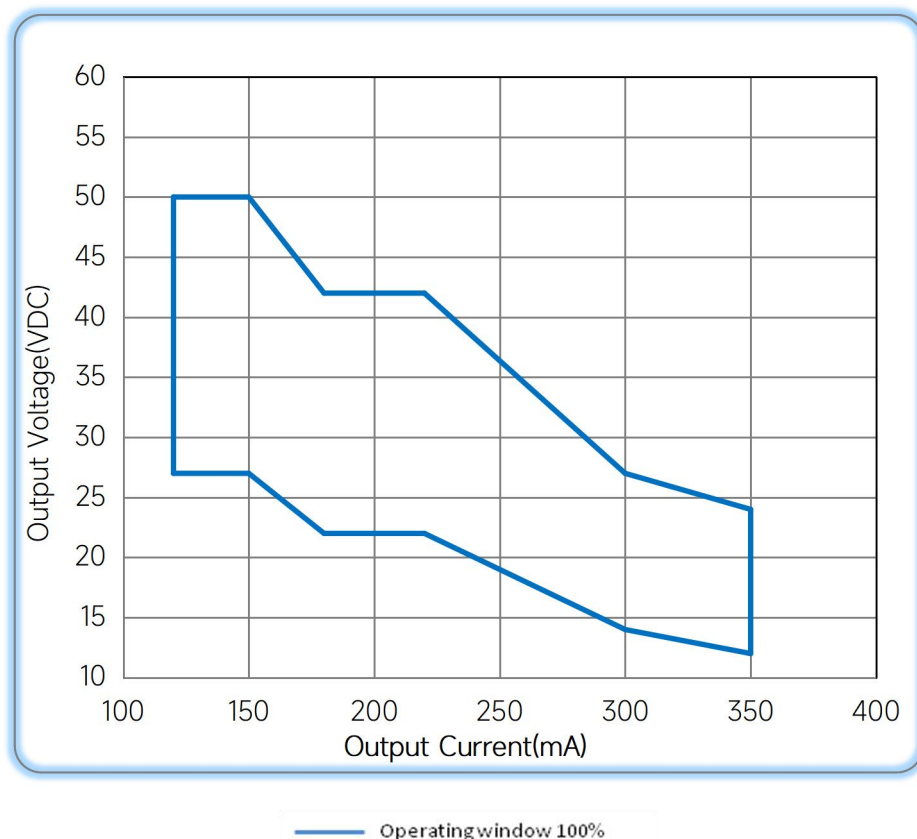
◆ Wiring & Connections

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

◆ Curve for LS-8-200 LI EXC, I_o=200mA

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/08/08
Specification		updated	B	2023/01/04
Power Factor	0.95	0.8C-0.95	C	2023/02/08
Current Accuracy	±5%@250-350mA	±7%	D	2023/05/09

Tel: +86-0757-86256822, +86-0757-86256831

E-mail: sales@eaglerise.com

Website : <https://lighting.eaglerise.com>

