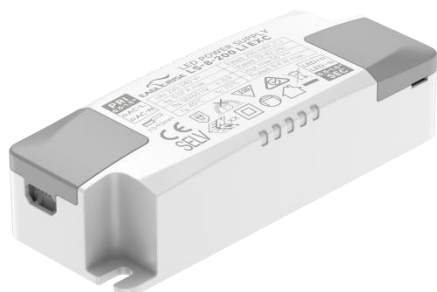


8W Constant Current power supply



■ Approve



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

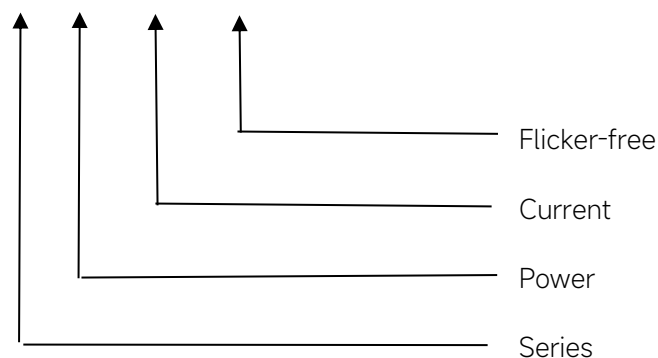
- LED panel, LED down light
LED spot light

◆ 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%						±5%	
	Output HF current ripple(≥1KHz)	±5%							
	Output LF current ripple(≤120Hz)	±3%							
	SVM	≤0.4							
	P _{st}	≤1							
	Efficiency(Typ.)	80%							
Input	Rated input voltage	220-240VAC							
	Range of input voltage	198-264VAC							
	Range input voltage(DC)	198-280VDC							
	Frequency(Hz)	0/50/60 Hz							
	Displacement factor(Typ.)	≥0.9							
	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%							
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 61347-1; EN61347-2-13; EN62384; EN55015; EN61000-3-2 ; EN61000-3-3; EN 61547								
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.								

◆ Model list

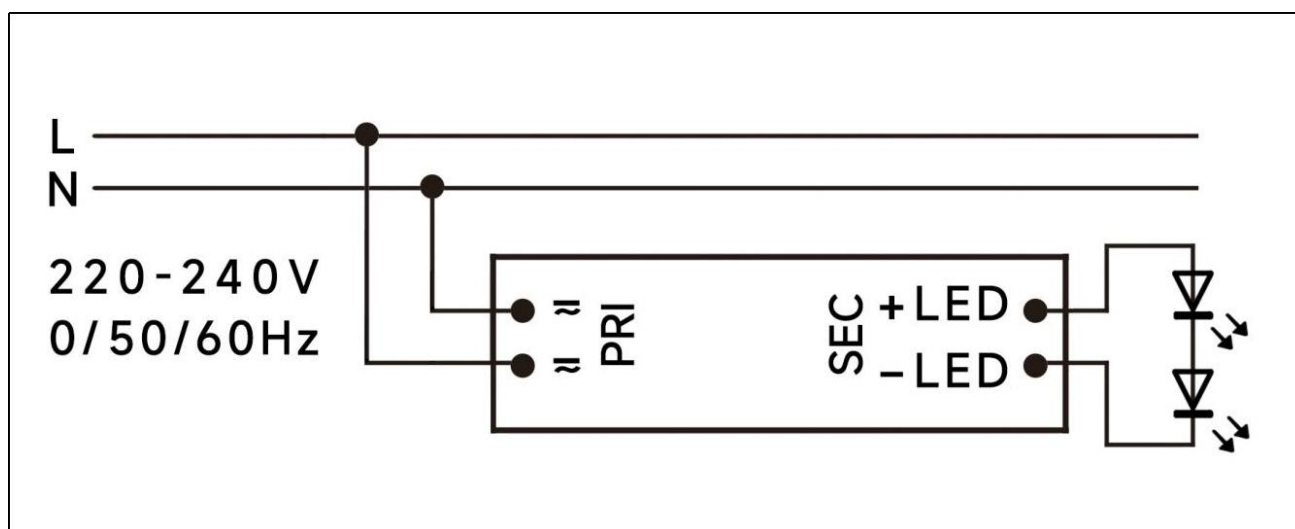
Number	Model number	Input			Output			
		Voltage (VAC)	Current (A)	Frequency (Hz)	Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	*LS-8-120 LI EXC	220-240	0.07	0/50/60	120	27-50	59	6
2	*LS-8-150 LI EXC				150			7.5
3	*LS-8-180 LI EXC				180	22-42	55	7.5
4	*LS-8-200 LI EXC				200			8.4
5	*LS-8-220 LI EXC				220			9.24
6	LS-8-250 LI EXC				250	14-27	45	6.8
7	*LS-8-300 LI EXC				300			8.1
*8	*LS-8-350 LI EXC				350	12-24	35	8.4

* Factory default

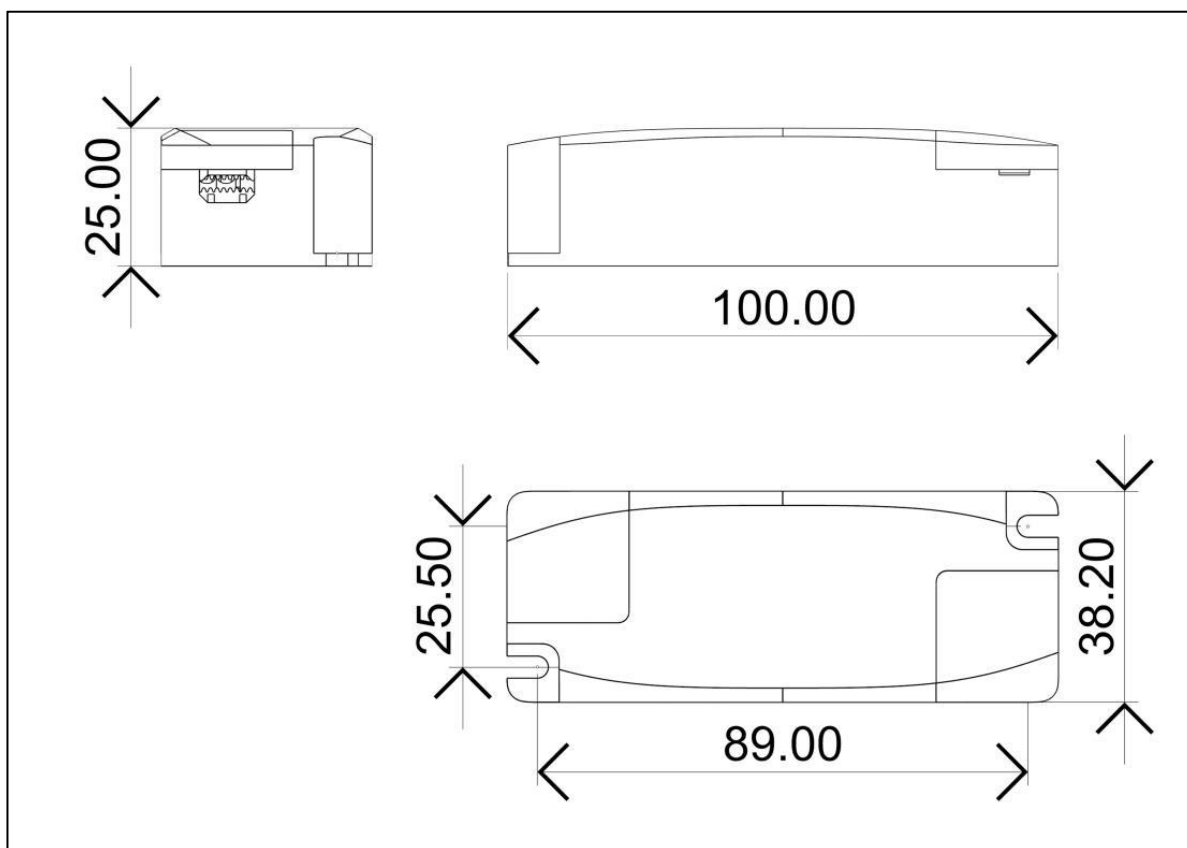
◆ Circuit Breaker

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

◆ Wiring diagram



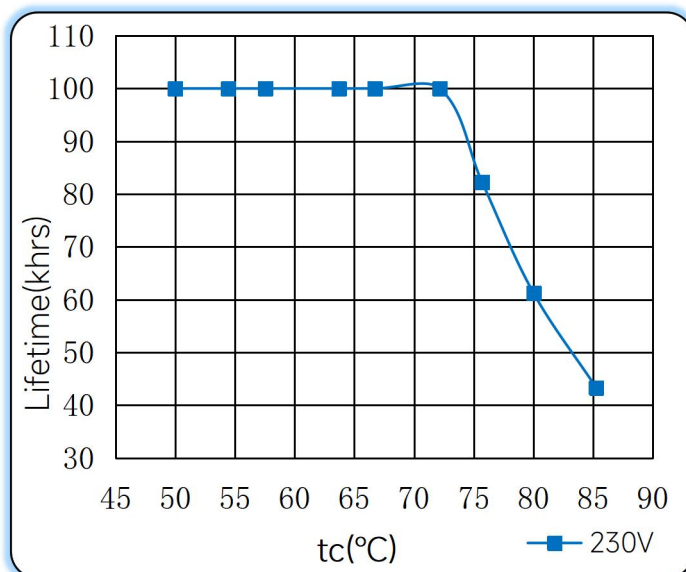
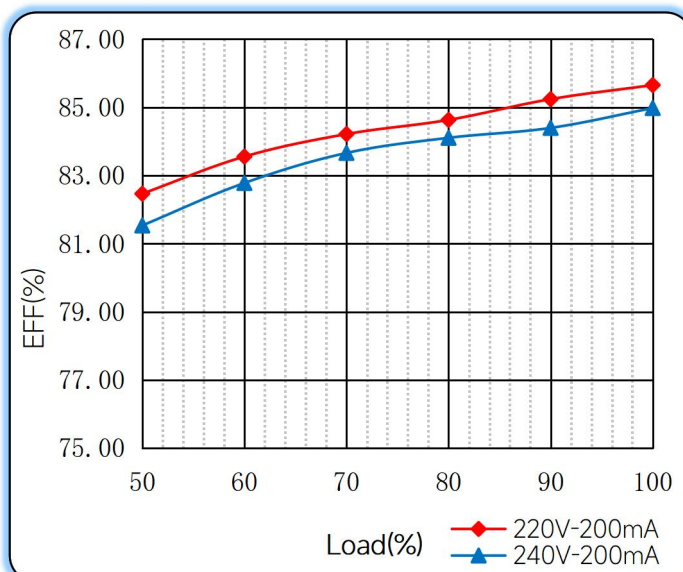
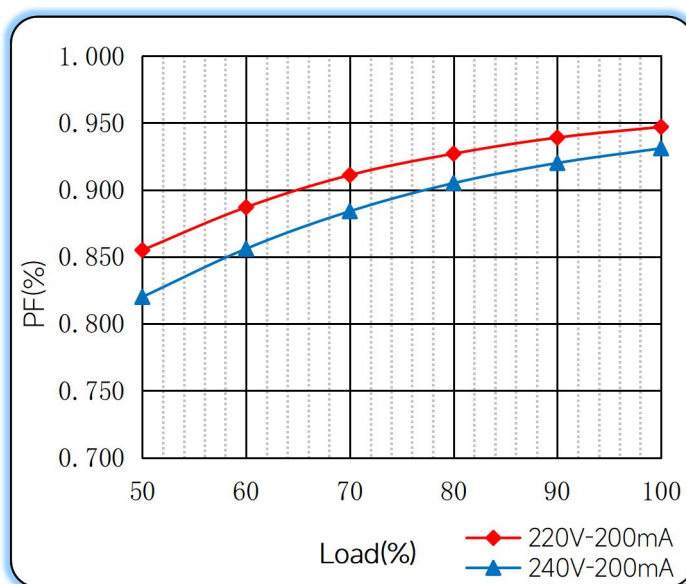
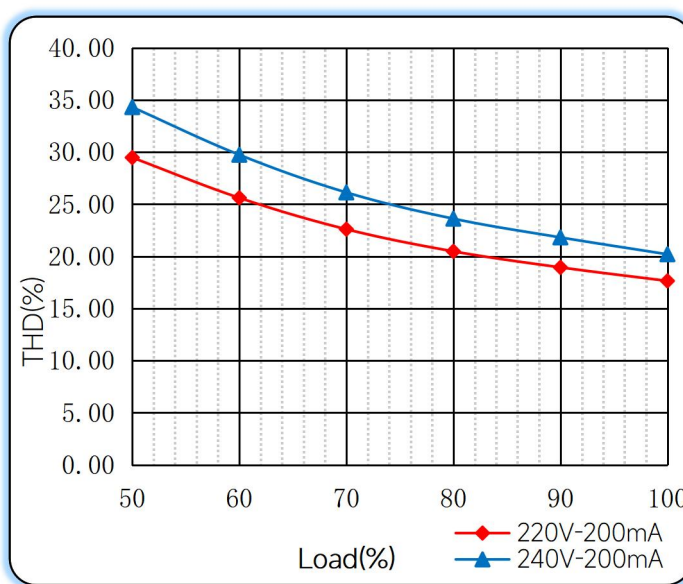
◆ 2D diagram



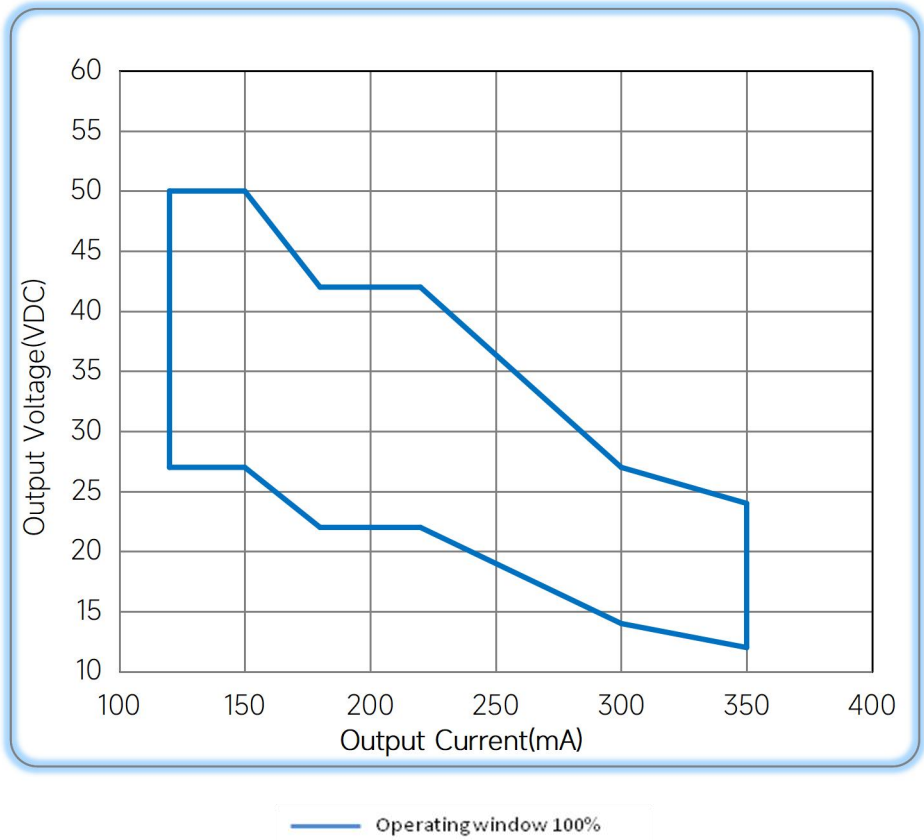
◆ Wiring & Connections

Specification item		Value (Unit)
Input	Input wire cross-section	0.5...1.5 mm2
	Input wire gauge.	16...20 AWG
	Input wire strip length	7...9mm
Output	Output wire cross-section	0.5...1.5 mm2
	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



Manual