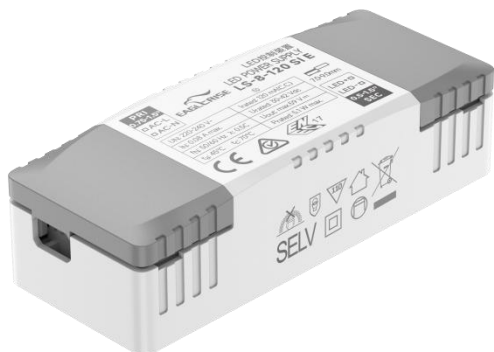


8W Constant Current power supply



■ Approve



Features

- Class II, SELV, Independent
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.5C
- Efficiency: $\geq 80\%$
- 5 years warranty
- IP20

Applications

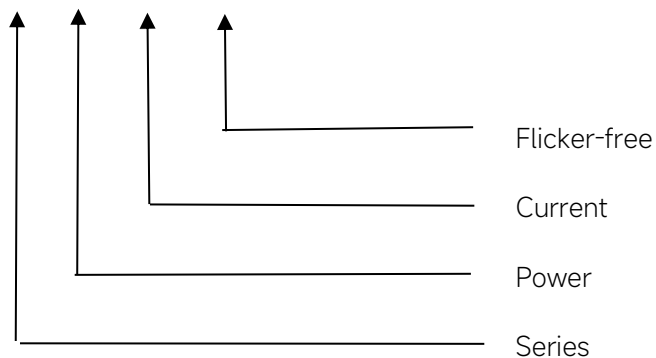
- LED panel, LED down light
- LED spot light

◆ Description

LS-8-XXX SI E is a 8W constant current LED driver with 120~350mA output current. With it's compact dimensions from 92 x 36 x 25 mm. It is easy to integrate in LED panel, LED down light, LED spot light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

LS-8-XXX SI E



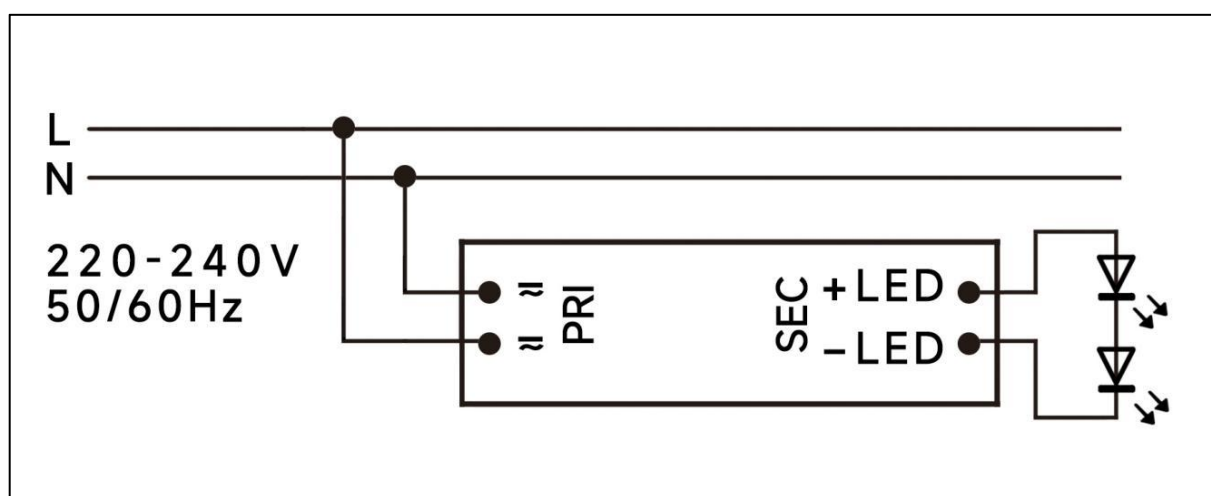
◆ Specification

Output	Constant Current (mA)	120	150	180	200	220	250	300	350	...	600
	Voltage Range(VDC)	30-42				30-38.5	16-26	15-24		...	8-13
	Unload voltage Max.(VDC)	59				50	37	40	35	...	25
	Current Accuracy	±9%			±8%			±7%			±10%
	Output HF current ripple(≥1KHz)	±5%									
	Output LF current ripple(≤120Hz)	±5%									
	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	≥0.7									
	Power Factor	0.5C@Full load,230V									
	Input Current max (mA)	80	90	110	120	70	100			120	
	Start-up time	< 0.5S									
	No Load Power	≤0.5W									
	Standby Power	≤0.5W									
Protection	Over Load Protection	103-120%									
		YES/Auto Resume									
	Over Voltage Protection	59				50	37	40	...	25	
		YES/Auto Resume									
	Short circuit Protection	YES/Auto Resume									
	Over Temperature Protection	YES/Auto Resume									
Environment	Operating Temperature	-20°C~+45°C									
	Humidity	20%-90%RH									
	Tc	75°C (70°C@220mA)									
	Storage Temperature	-20°C~+60°C									
	Life time	> 50,000h@Tc=75°C(> 50,000h@Tc=70°C@220mA)									
Surface	Dimension	92X36X25 (LXWXH)mm									
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										
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.										

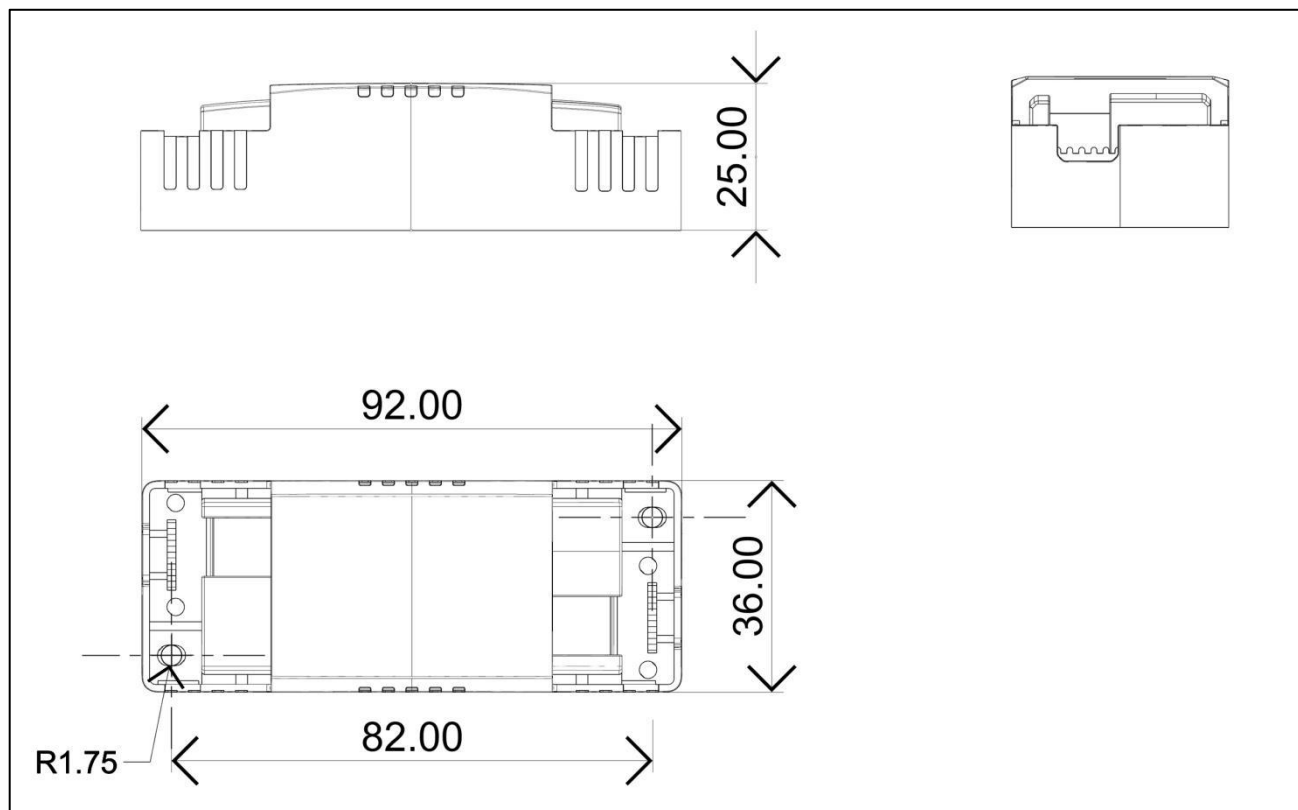
◆ Model list

Number	Model number	Output			
		Current (mA)	Voltage (VDC)	Voltage No load (VDC)	Power (W)
1	*LS-8-120 SI E	120	30-42	59	5.1
2	*LS-8-150 SI E	150			6.3
3	*LS-8-180 SI E	180			7.6
4	*LS-8-200 SI E	200			8.4
5	*LS-8-220 SI E	220	30-38.5	50	8.47
6	LS-8-250 SI E	250	16-26	37	6.5
7	*LS-8-300 SI E	300	15-24	40	7.2
8	*LS-8-350 SI E	350		35	8.4
9	LS-8-400 SI E	400	12-20	30	8
10	LS-8-450 SI E	450	11-18	30	8.1
11	LS-8-500 SI E	500	10-16	26	8
12	LS-8-550 SI E	550	9-14	25	7.7
13	LS-8-600 SI E	600	8-13	25	7.8

◆ Wiring diagram



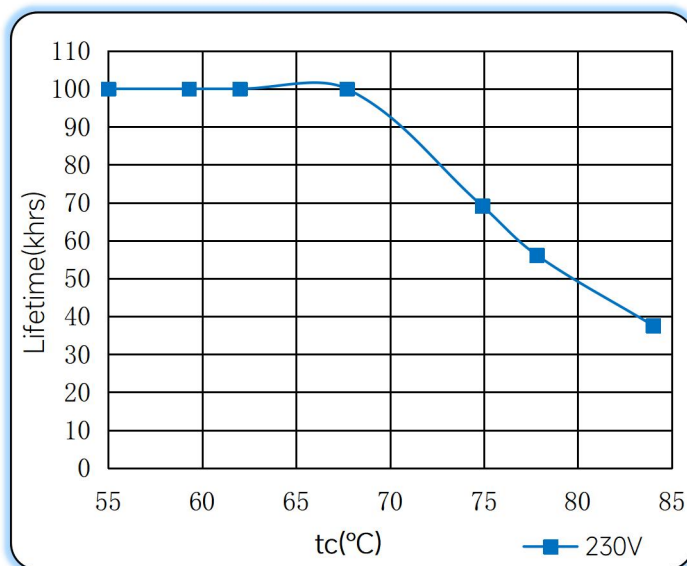
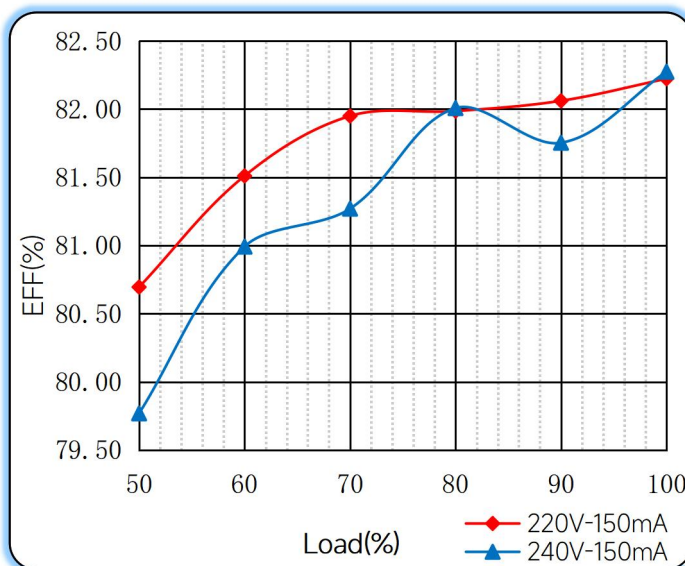
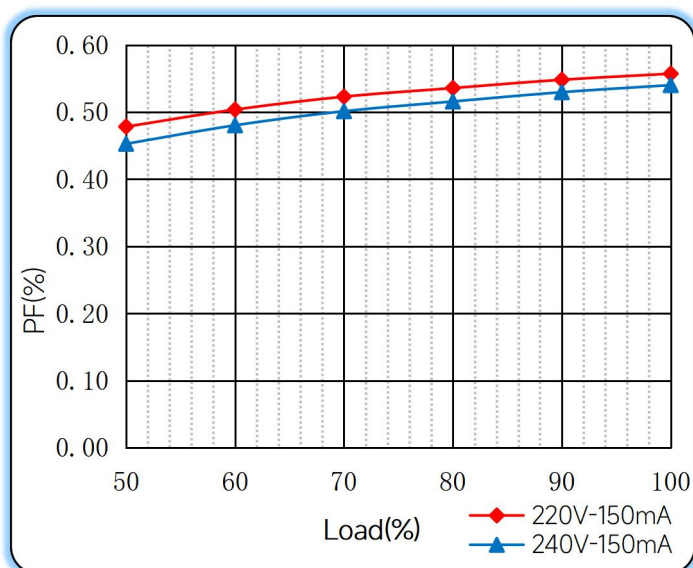
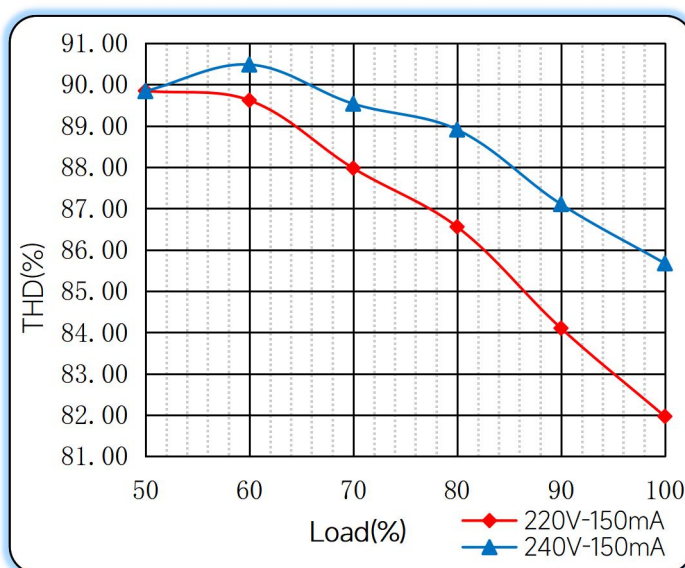
◆ 2D diagram



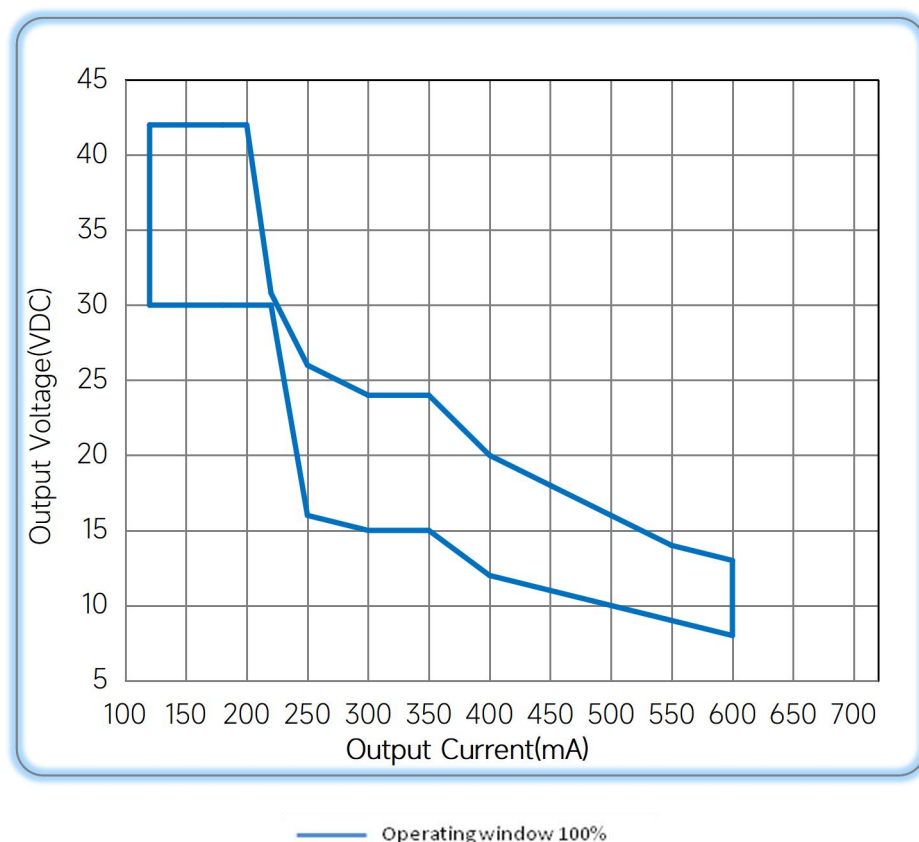
◆ Wiring & Connections

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-8-150 SI E, $I_o=150\text{mA}$

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/09/20
Curve		Added	B	2022/09/30
Model list		Update	C	2023/06/28

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Manual