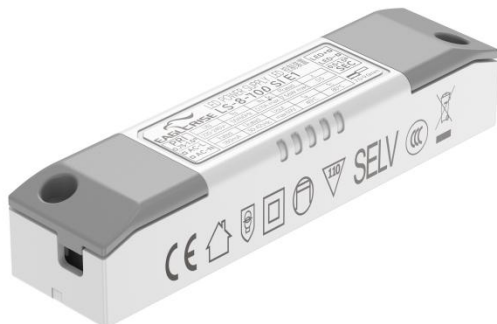


8W Constant Current power supply



SELV

IS 15885(PART 2/SEC 13)

*current see Note



R-41050962
www.bis.gov.in
made in china

Features

- Class II, SELV, Independent
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.5(Typ.)
- Efficiency: 73%(Typ.)
- 5 years warranty
- IP20

Applications

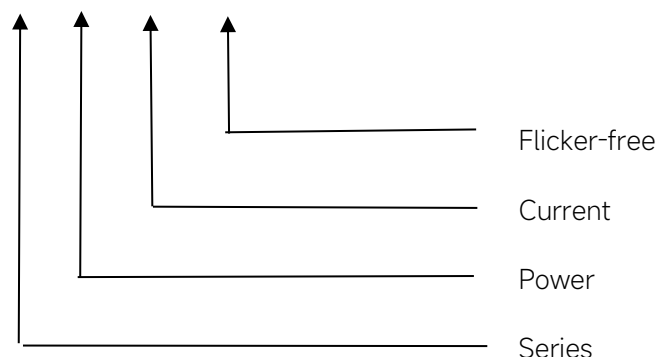
- LED panel、LED down light
LED spot light

◆ Description

LS-8-700 SI E1 is a 8W constant current LED driver with 700mA output current. With it's compact dimensions from 84×20.5×16.5mm. 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-8-700 SI E1



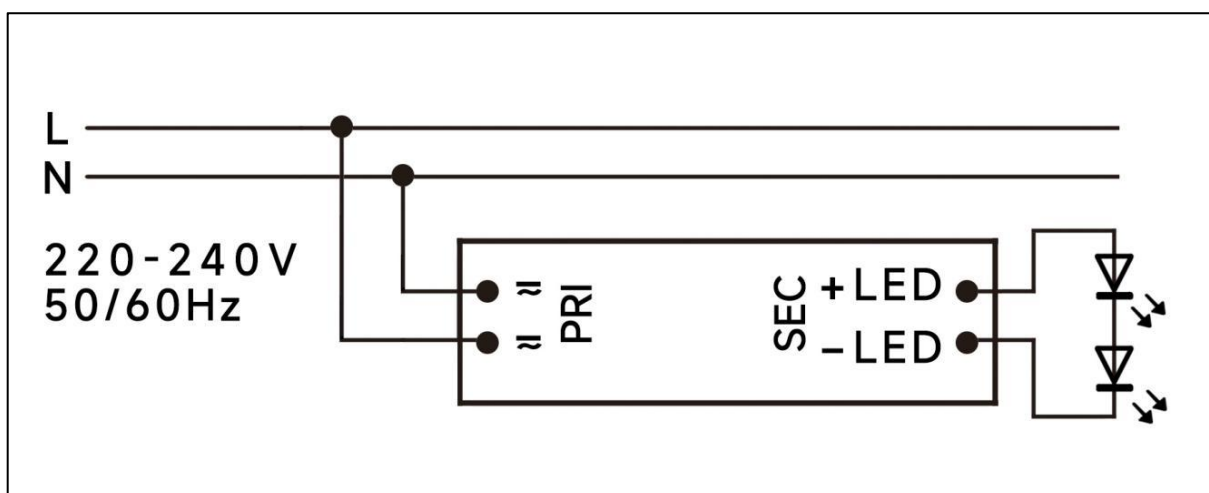
◆ Specification

Output	Constant Current (mA)	700mA
	Voltage Range(VDC)	8-13VDC
	Unload voltage Max.(VDC)	24VDC
	Current Accuracy	±7%
	Output HF current ripple(≥1KHz)	±5%
	Output LF current ripple(≤120Hz)	±5%
	SVM	≤0.4
	P _{st}	≤1
	Efficiency(Typ.)	≥73%@Full load,230V
Input	Rated input voltage	220-240VAC
	Range of input voltage	198-264VAC
	Frequency(Hz)	50/60 Hz
	Displacement factor	≥0.5
	Power Factor	0.5@Full load,230V
	Input Current max (mA)	0.11A
	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	>24VDC
		YES/Auto Resume
	Short circuit Protection	YES/Auto Resume
Environment	Operating Temperature	-20°C~+40°C
	Humidity	20%-90%RH
	T _c	80°C
	Storage Temperature	-20°C~+60°C
	Life time	> 50,000h@TC=65°C
Surface	Dimension	84×20.5×16.5 (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 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. Switch and dimmer are not recommended to connect between this product output and luminaries. 4. This model is for internal sale version, will not carry out harmonic detection.	

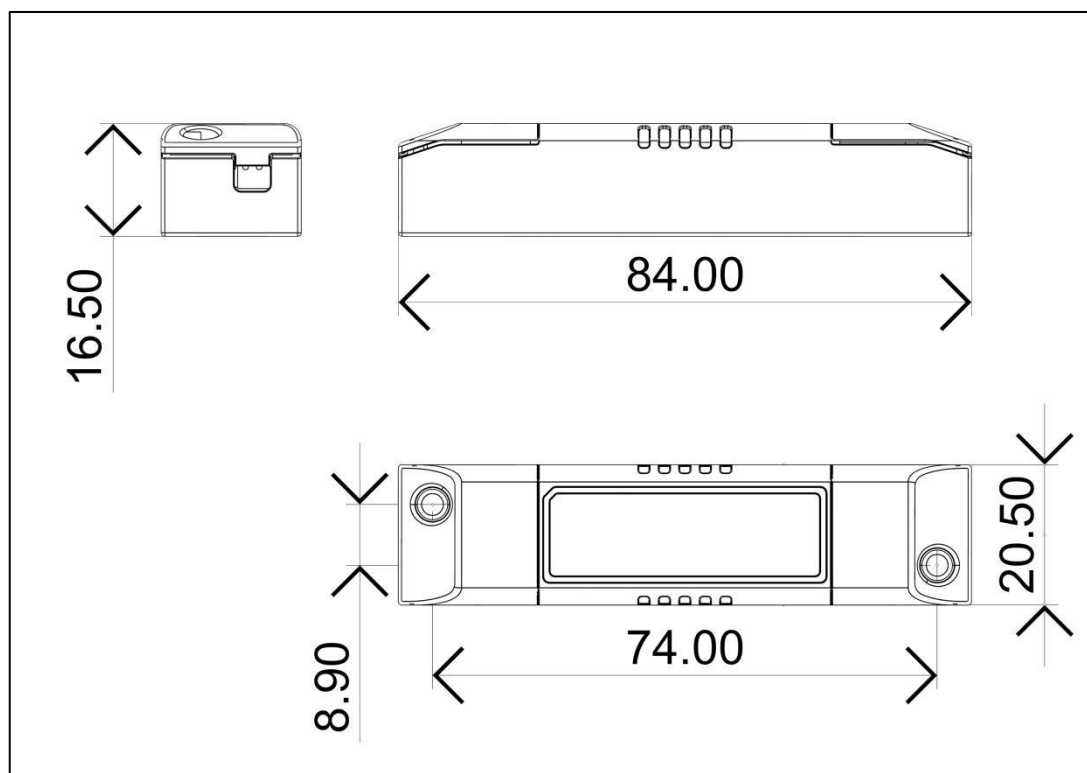
◆ Circuit Breaker

I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
9.04A	88μs	72pcs	116pcs	145pcs	72pcs	116pcs	145pcs

◆ Wiring diagram



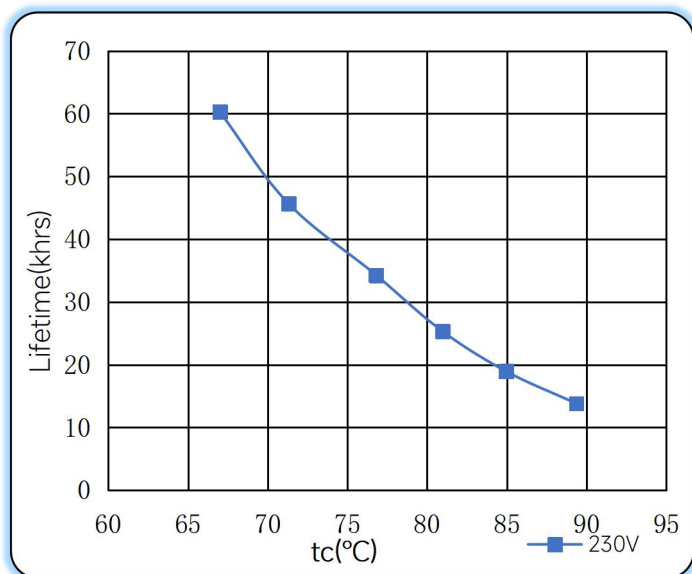
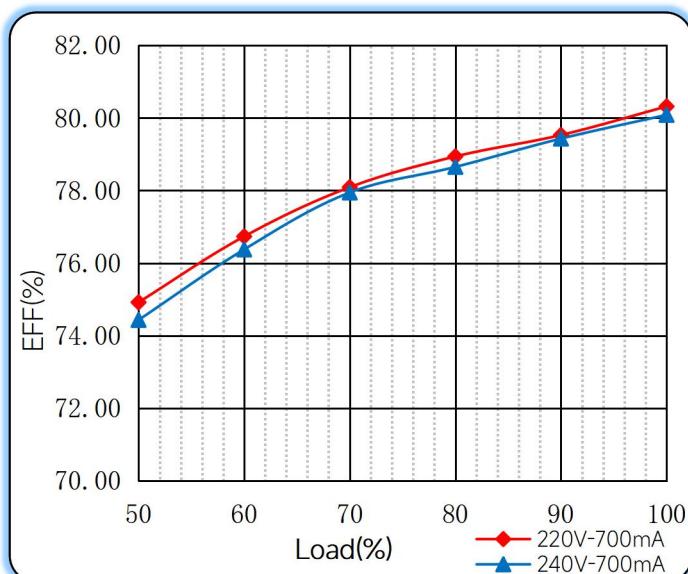
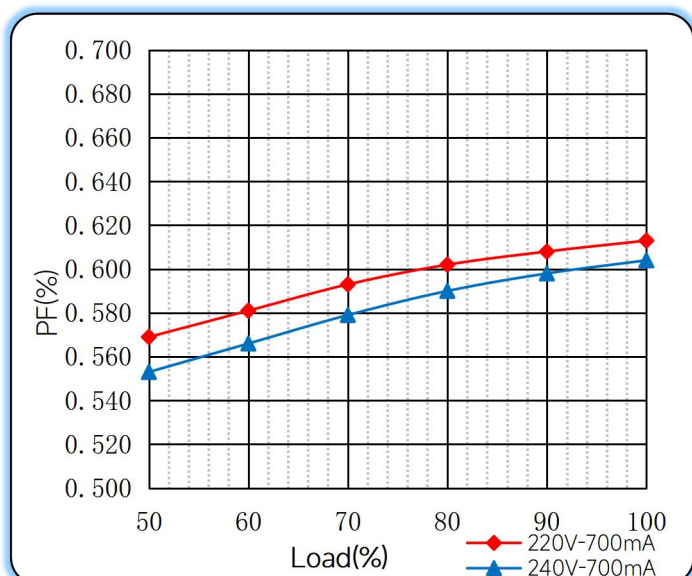
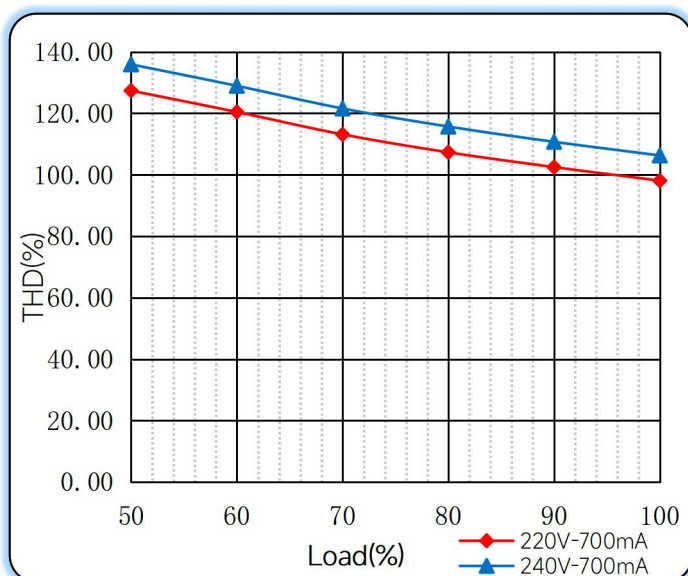
◆ 2D diagram



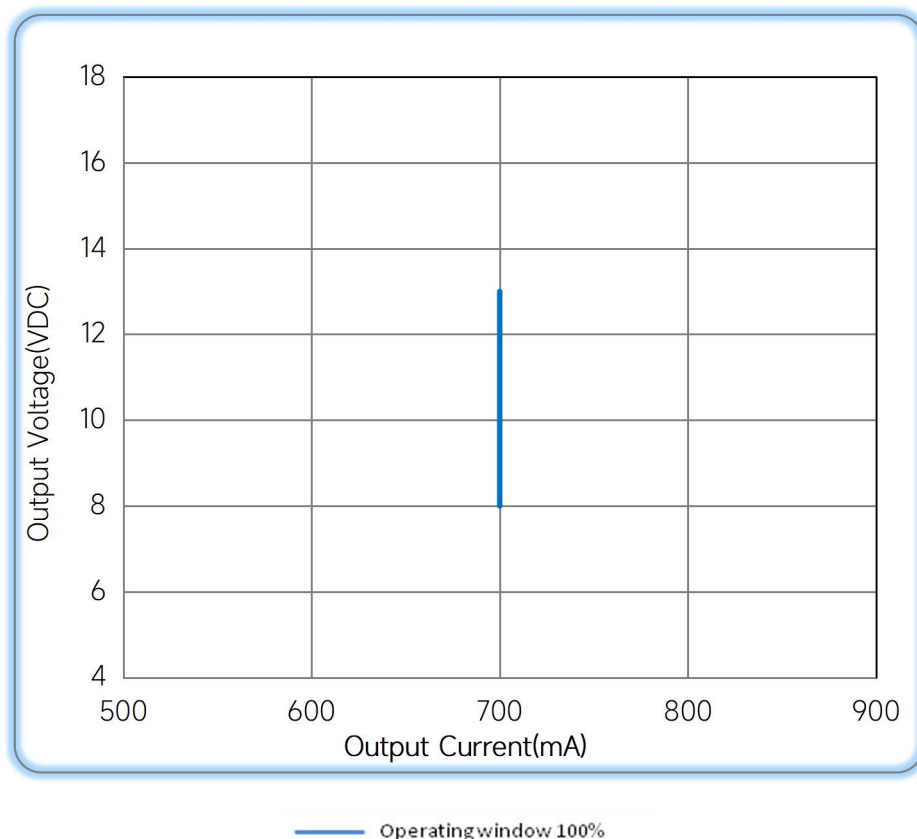
◆ Wiring & Connections

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-8-700 SI E1, $I_o=700mA$

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2023/03/22
Current Accuracy	±5%	±7%	B	2023/05/25

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E-mail: sales@eaglerise.com

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EAGLERISE



Manual