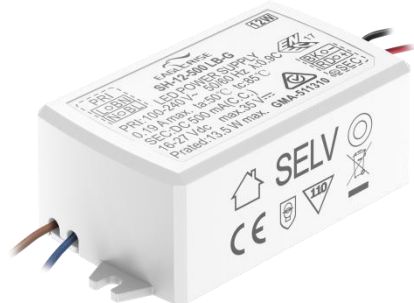


12W LED Driver Constant Current



■ Approve



Features

- Class I&II, SELV, Built-in
- Input Voltage 100-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor : 0.9C
- Efficiency : $\geq 82\%$ @300-500mA; $\geq 80\%$ @700mA
- 5 years warranty

Applications

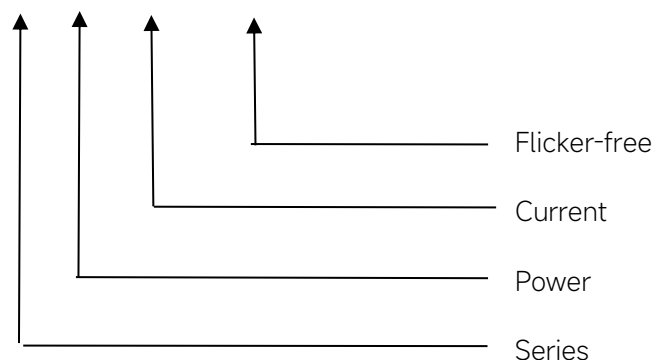
- LED spot light、Wall light

◆ Description

SH-12-XXX LB-G is a 12W constant current LED driver with 300mA to 700mA output current. With it's compact dimensions from 68.5 x 35 x 23.2 mm. It is easy to integrate in wall light and LED spot light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

SH-12-XXX LB-G



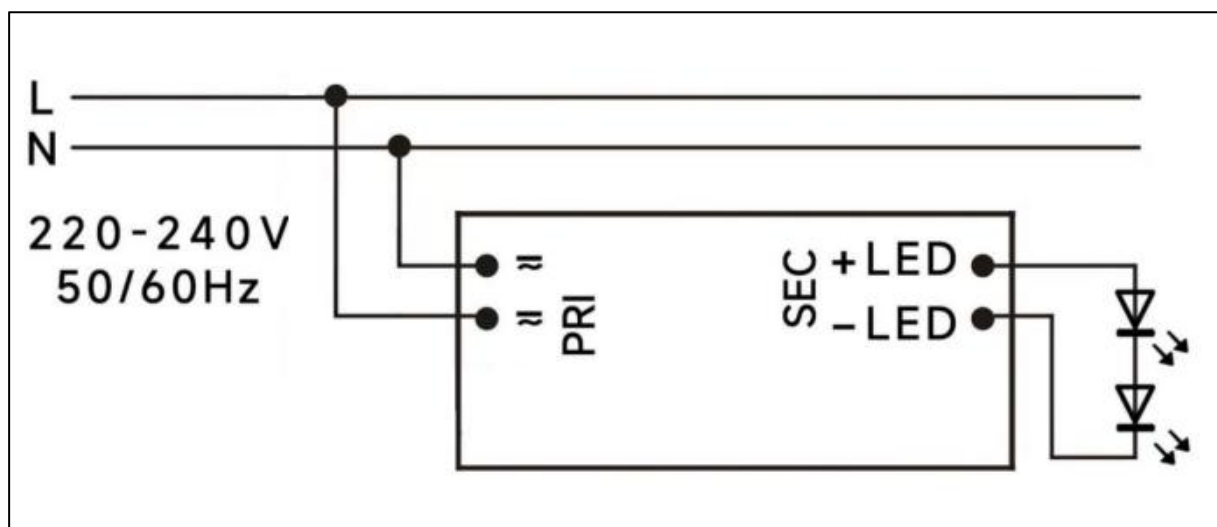
◆ Specification

Output	Constant Current	300mA	350mA	500mA	700mA
	Unload voltage Max.	50VDC	45VDC	35VDC	25VDC
	Voltage Range	25-42VDC	20-36VDC	16-27VDC	11-18.5VDC
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±3%			
	Output LF current ripple(≤120Hz)	±3%			
	SVM	≤0.4			
	Pst	≤1			
	Efficiency(Typ.)	≥82%@Full Load,300-500mA; ≥80%@Full Load,700mA			
Input	Rated input voltage	100-240VAC			
	Range of input voltage	90-264VAC			
	Frequency(Hz)	50/60 Hz			
	Displacement factor	≥0.5			
	Power Factor	0.9C@Full load,230V			
	Input Current max	0.19A			
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
	THD (Typ.)	< 15%@Full load,230V			
Protection	Over Load Protection	103-120% YES/Auto Resume			
	Over Voltage Protection	> 50VDC	> 45VDC	> 35VDC	> 25VDC
	Short circuit Protection	YES/Auto Resume			
	Over Temperature Protection	YES/Auto Resume			
Environment	Operating Temperature	-20°C~+50°C			
	Humidity	20%-90%RH			
	Tc	85°C			
	Storage Temperature	-20°C~+60°C			
	Life time	> 50000h@Tc=75°C,230VAC			
Surface	Dimension	68.5 x 35 x 23.2 (LXWXH)mm			
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 us25ing 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.				

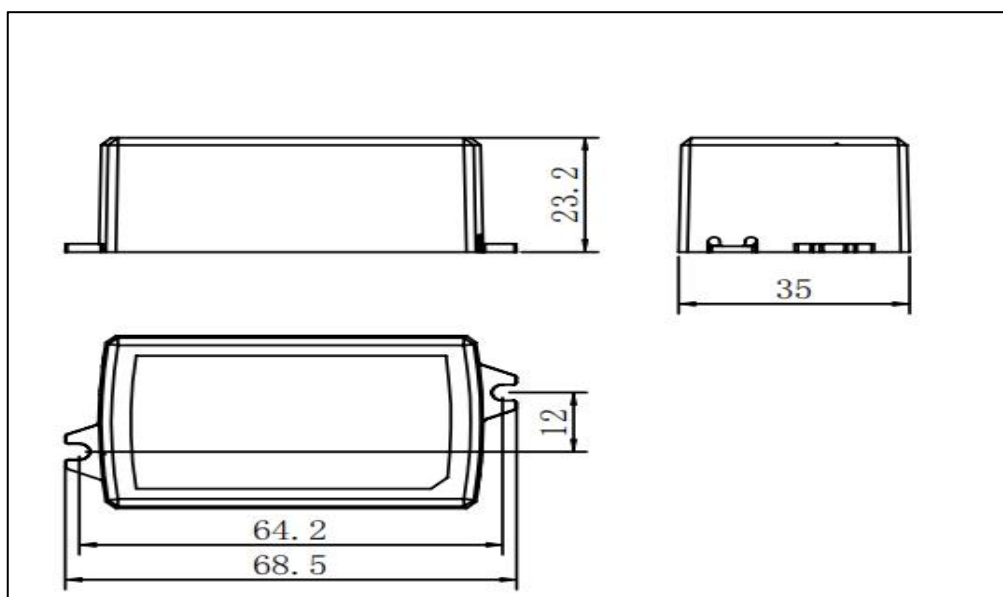
◆ Circuit Breaker

I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
10A	50μs	42pcs	67pcs	84pcs	42pcs	67pcs	84pcs

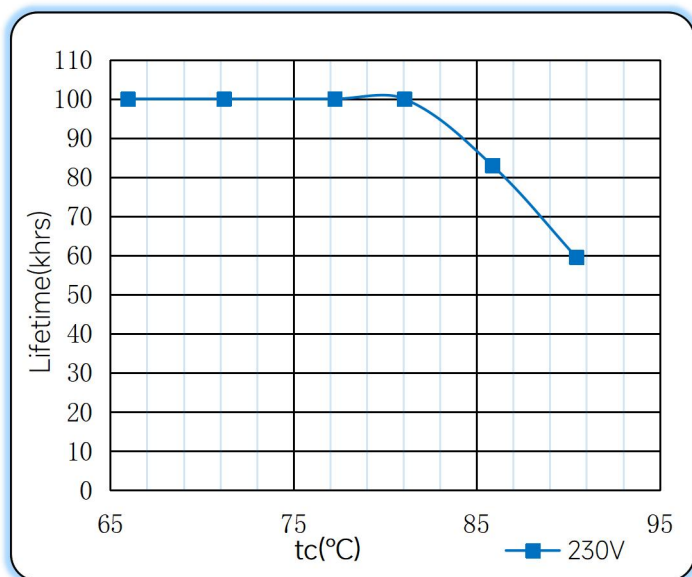
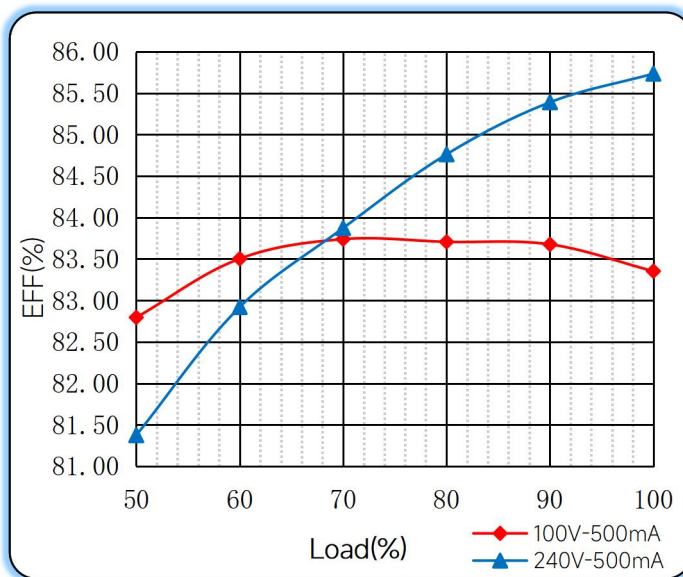
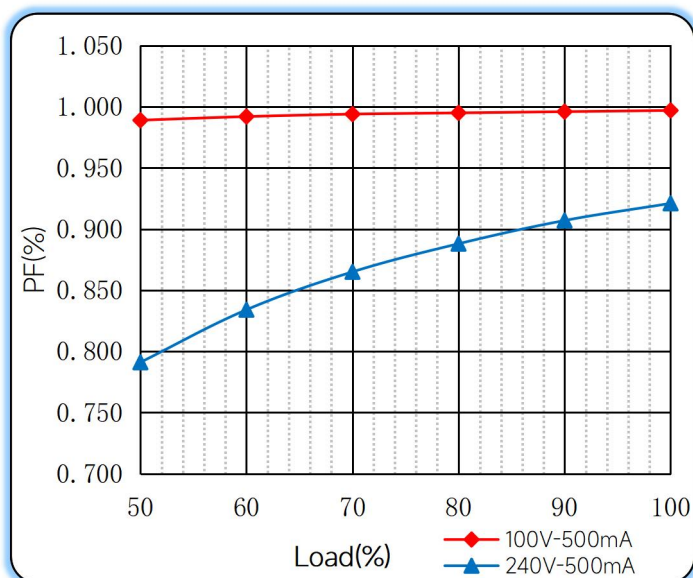
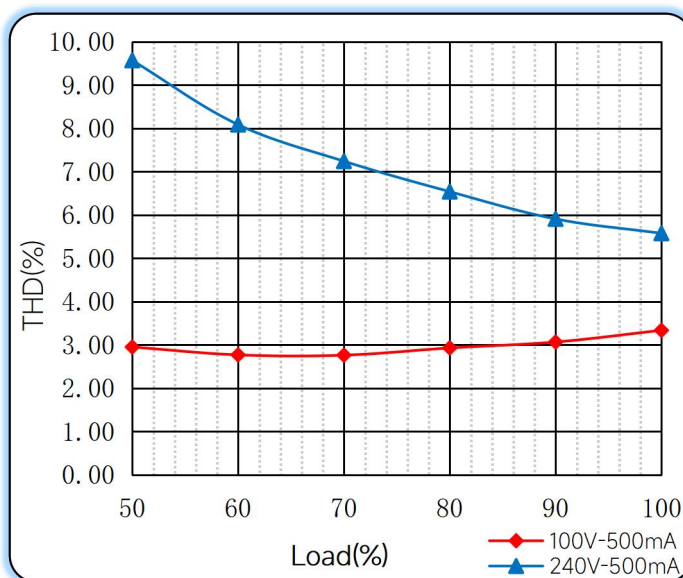
◆ Wiring diagram



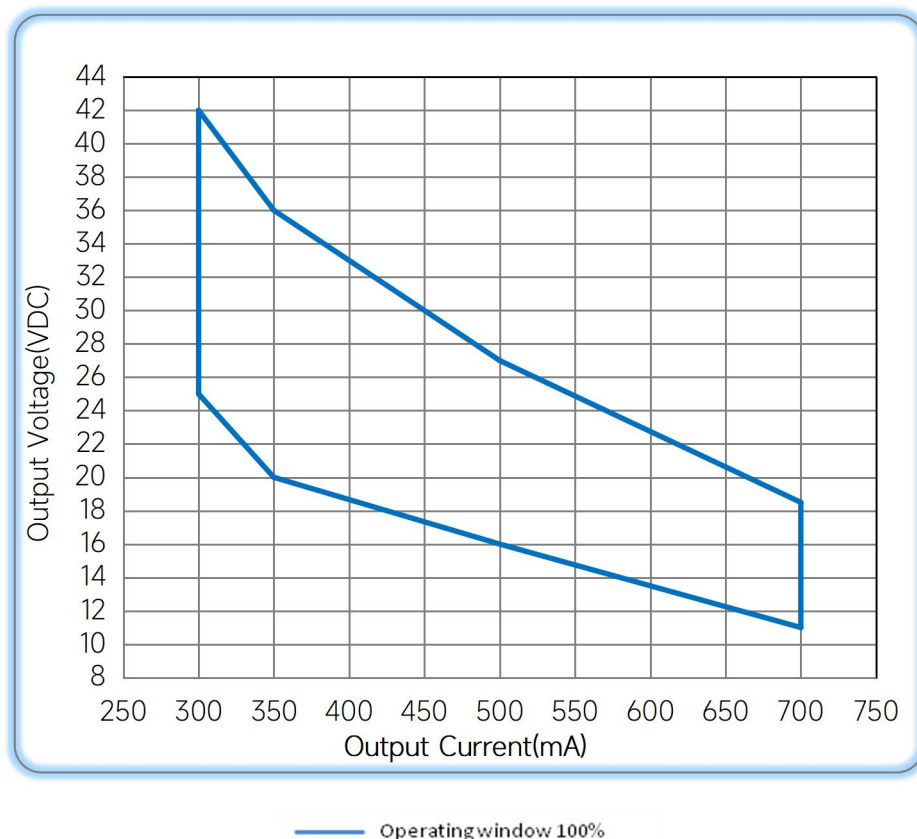
◆ 2D diagram



◆ Curve for SH-12-500 LB-G, $I_o=500mA$

Lifetime vs. Temperature Curve

Efficiency vs. Load

Power Factor Characteristics

THD vs. Load


◆ Operating window



◆ Revision Updates

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			A	2022/05/15

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Manual