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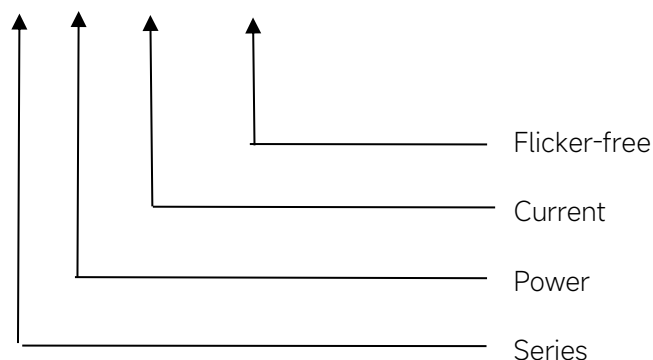
CCC ECEB  SELV 

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

- LED spot light、Wall light

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.

SH-12-XXX LB-G



◆ Specification

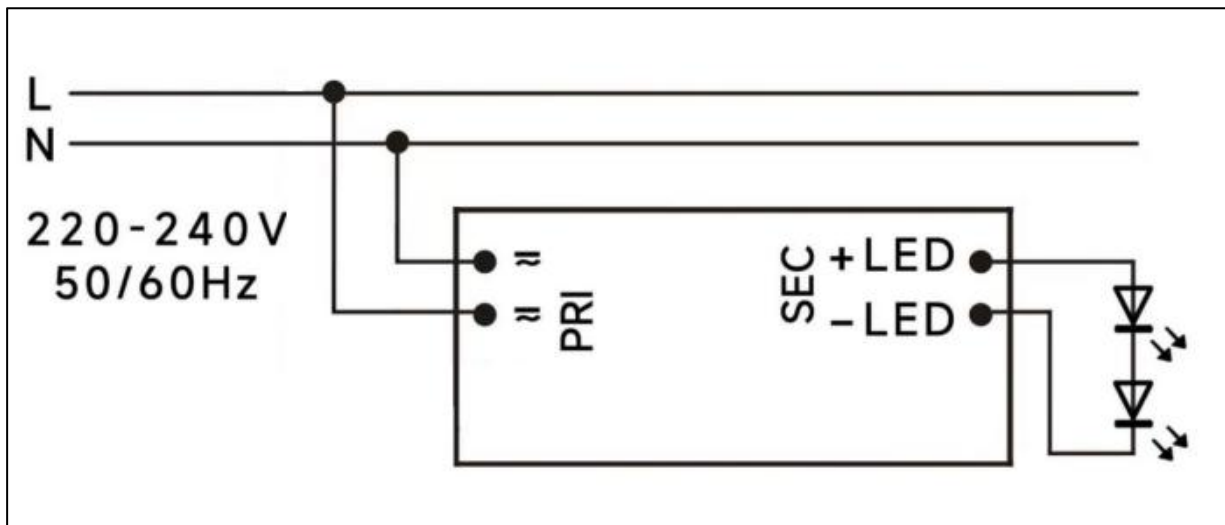
Output	Constant Current	300mA	350mA	500mA	600mA	700mA
	Unload voltage Max.	50VDC	45VDC	35VDC	27VDC	25VDC
	Voltage Range	25-42VDC	20-36VDC	16-27VDC	11-19VDC	11-18.5VDC
	Current Accuracy	±5%				
	Output HF current ripple(≥1KHz)	±3%				
	Output LF current ripple(≤120Hz)	±3%				
	SVM	≤0.4				
	Pst	≤1				
	Efficiency(Typ.)	≥82%@Full Load,300-500mA; ≥80%@Full Load,600-700mA				
Input	Rated input voltage	100-240VAC				
	Range of input voltage	90-264VAC				
	Maximum voltage	300VAC@1 h maximum,unit might not operate in this abnormal condition				
	Frequency(Hz)	50/60 Hz				
	Displacement factor	≥0.5				
	Power Factor	0.9C				
	Input Current max	0.19A				
	Start-up time	< 0.5S				
	No Load Power	≤0.5W				
	THD (Typ.)	< 15%				
	Protection	Over Load Protection	103-130% YES/Auto Resume			
Over Voltage Protection		> 50VDC	> 45VDC	> 35VDC	> 27VDC	> 25VDC
		YES/Auto Resume				
Short circuit Protection		YES/Auto Resume				
capability	Surge capability (L-N)	1KV				
	Surge capability (L/N-Ground)	NA				
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				
	Noise	≤20dB(A)@10cm				
Surface	Dimension	68.5 x 35 x 23.2 (LXWXH)mm				
	material	PC				
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	<p>1.All parameters NOT specially mentioned are measured at 230VAC input , full load and 25°C of ambient temperature.</p> <p>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</p> <p>3.The over-temperature protection of the product is provided by the IC.</p> <p>4.All Eaglerise power supply are complied with EMI regulations. Since they are belong to component and will be installed inside system enclosure. When they are integrated into a system, the EMI characteristics of the system must be re-verified again.</p>
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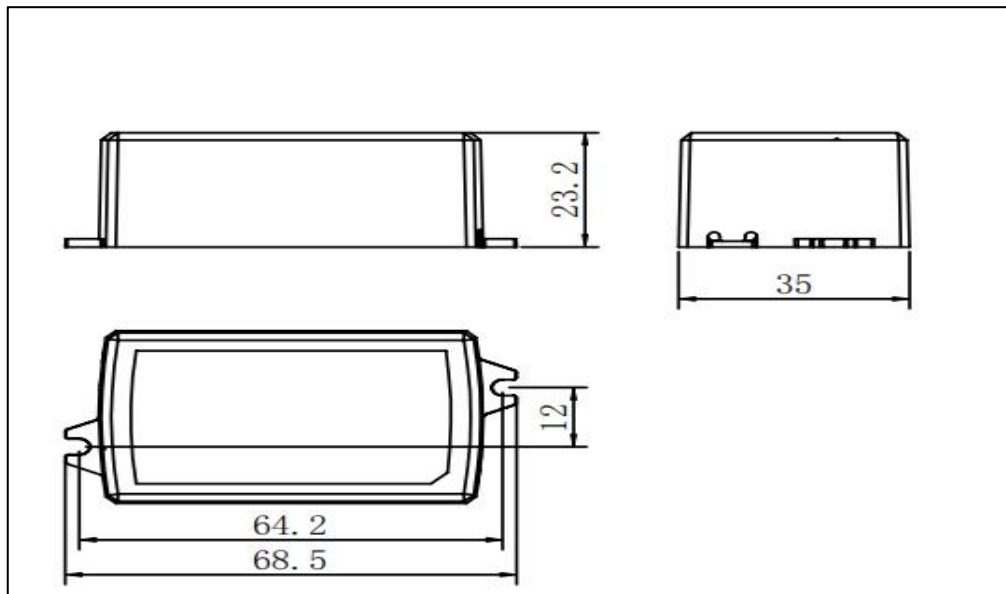
◆ Circuit Breaker

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

◆ Wiring diagram

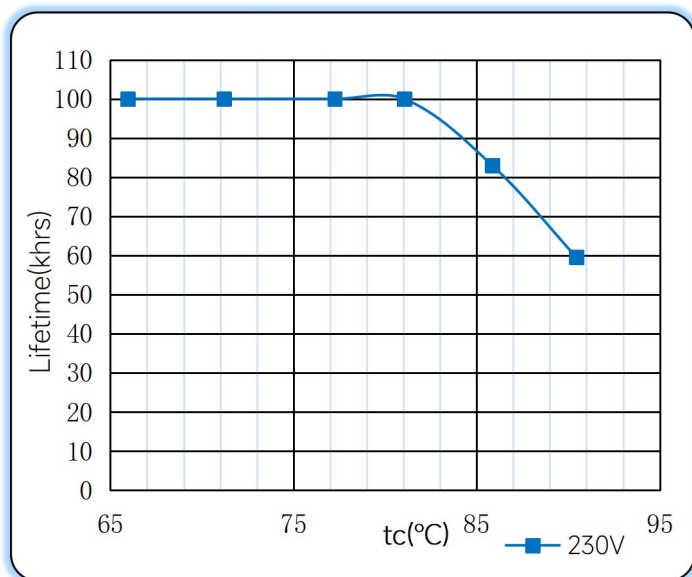


◆ 2D diagram

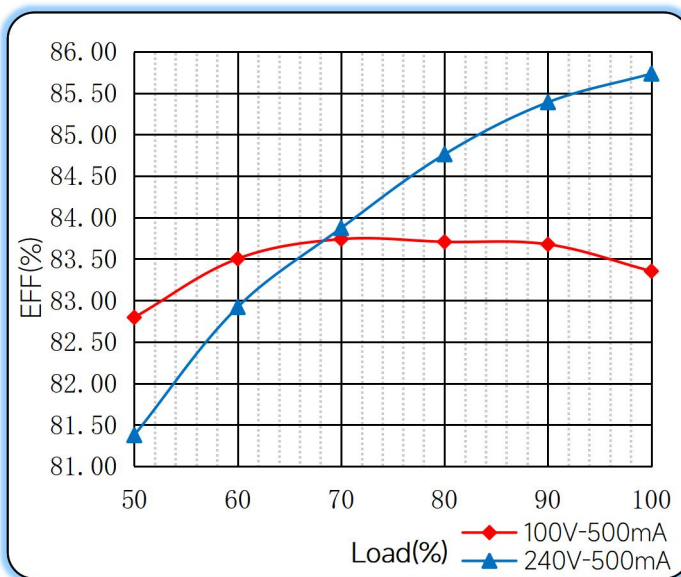


◆ Curve for SH-12-500 LB-G, $I_o=500mA$

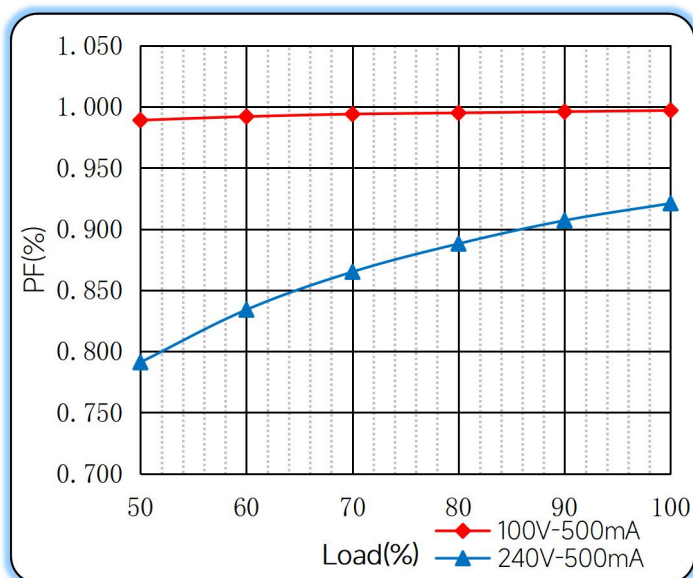
Lifetime vs. Temperature Curve



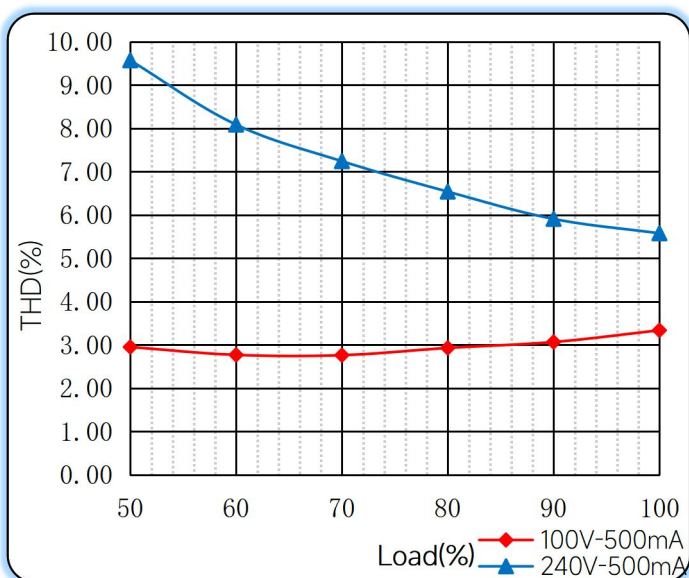
Efficiency vs. Load



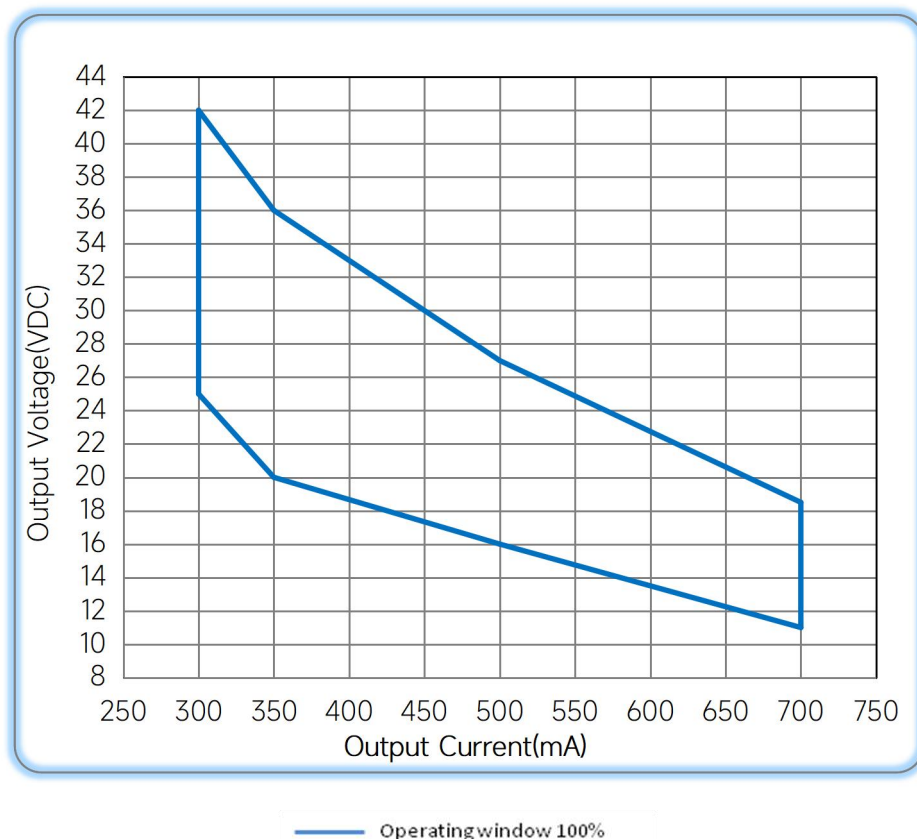
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

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

Remark: The final interpretation of the contents of the specification belongs to Astralux.

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