

3W LED Driver Constant Current



■ Approve



Features

- Class II&I, SELV, built-in
- Input Voltage 100-240VAC
- Protections: SCP/OLP/OVP
- Power Factor ≥ 0.5
- IP65 Ingress protection
- Efficiency $\geq 68\%$
- 5 years warranty

Applications

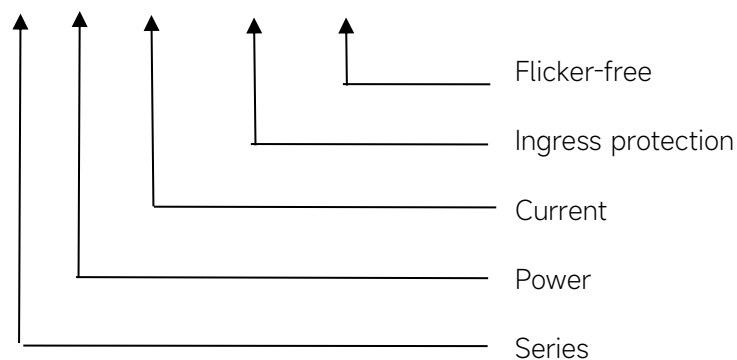
- LED spot light, Wall light

◆ Description

SH-3-XXX IP65 SB is a 3W constant current LED driver that operates from 90-264Vac input with 300 to 700mA output voltage. With it's compact dimensions from 47 x 23 x 21mm it is easy to integrate in LED spot and wall light products. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

SH-3-XXX IP65 SB



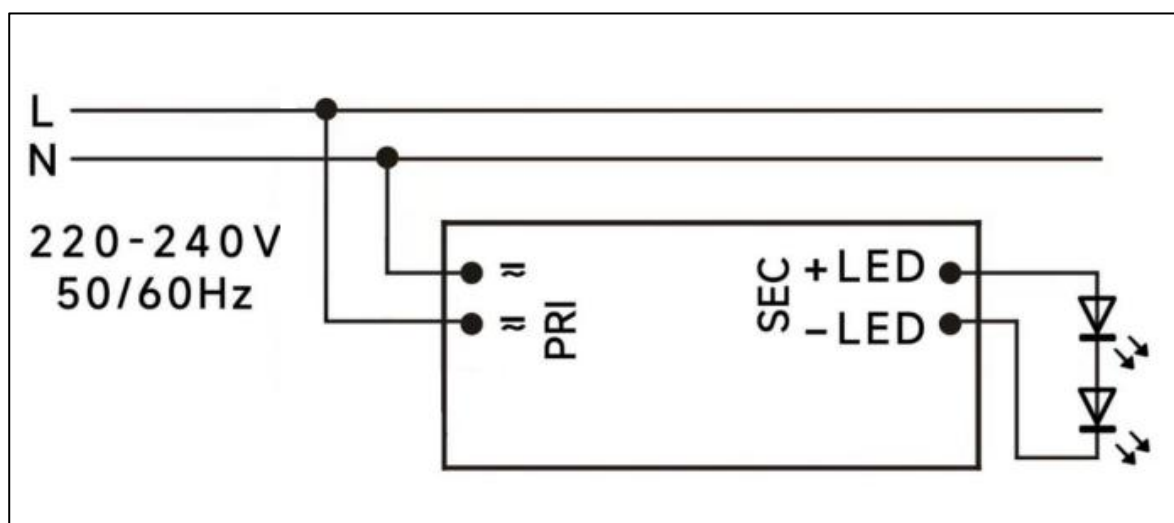
◆ Specification

Output	Constant Current	300mA	350mA	500mA	700mA
	Unload voltage Max.	20VDC	18VDC	15VDC	10VDC
	Voltage Range	2.5-12VDC	2.5-10VDC	2.5-7VDC	2.5-4.5VDC
	Current Accuracy	±5%			
	Output HF current ripple(≥1KHz)	±5%			
	Output LF current ripple(≤120Hz)	±5%			
	SVM	≤0.4			
	Pst	≤1			
	Efficiency(Typ.)	≥68%@Full load			
Input	Rated input voltage	100-240VAC			
	Range of input voltage	90-264VAC			
	Frequency(Hz)	50/60 Hz			
	Displacement factor	≥0.9			
	Power Factor	≥0.5@Full load			
	Input Current max	0.1A			
	Start-up time	< 0.5S			
	No Load Power	≤0.5W			
Protection	Over Load Protection	103-150% YES/Auto Resume			
	Over Voltage Protection	>20VDC	>18VDC	>15VDC	>10VDC
		YES/Auto Resume			
	Short circuit Protection	YES/Auto Resume			
Environment	Operating Temperature	-20℃~-+50℃			
	Humidity	10%-90%RH			
	Tc	75℃			
	Storage Temperature	-20℃~-+60℃			
	Life time	> 50000h@Tc=70℃,230VAC			
Surface	Dimension	47X23X21(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℃ 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.				

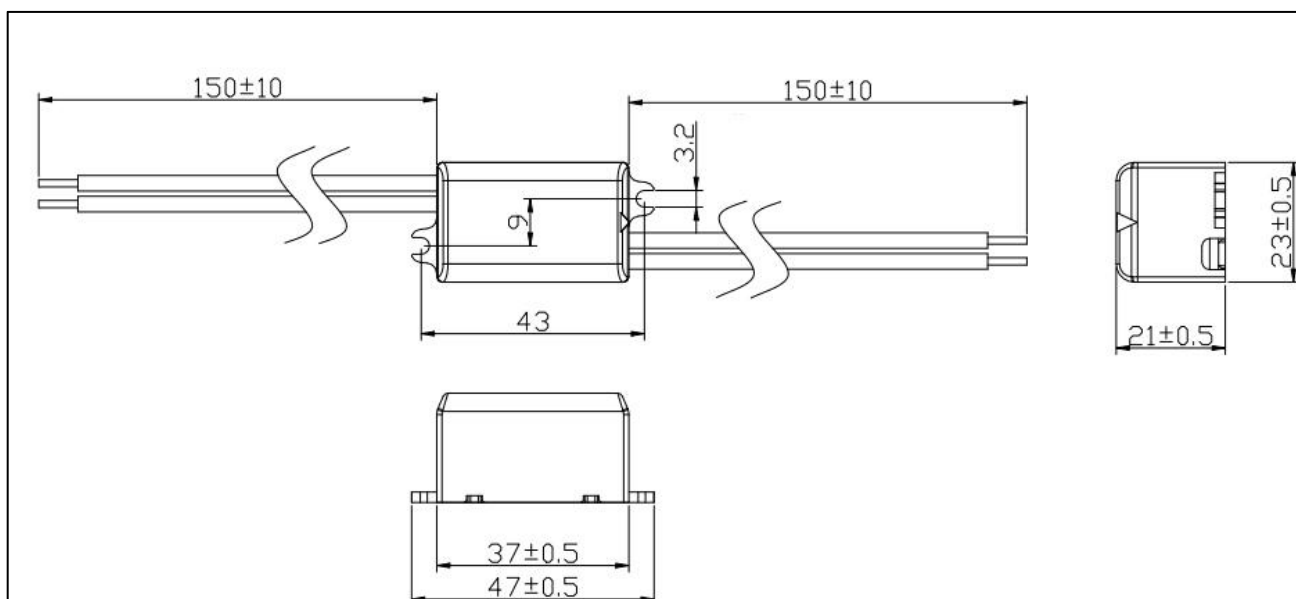
◆ Circuit Breaker

I _{peak}	T _{width}	B10	B16	B20	C10	C16	C20
20A	110μs	38pcs	61pcs	77pcs	64pcs	102pcs	128pcs

◆ Wiring diagram

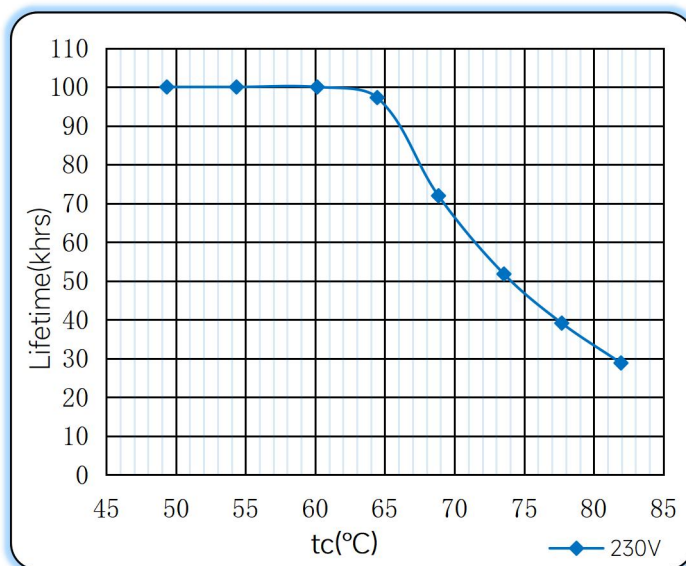


◆ 2D diagram

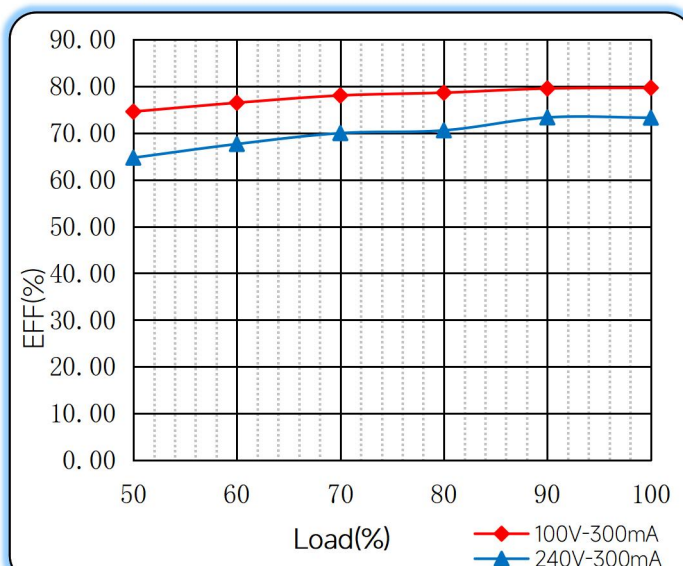


◆ Curve for SH-3-300 IP65 SB, $I_o=350mA$

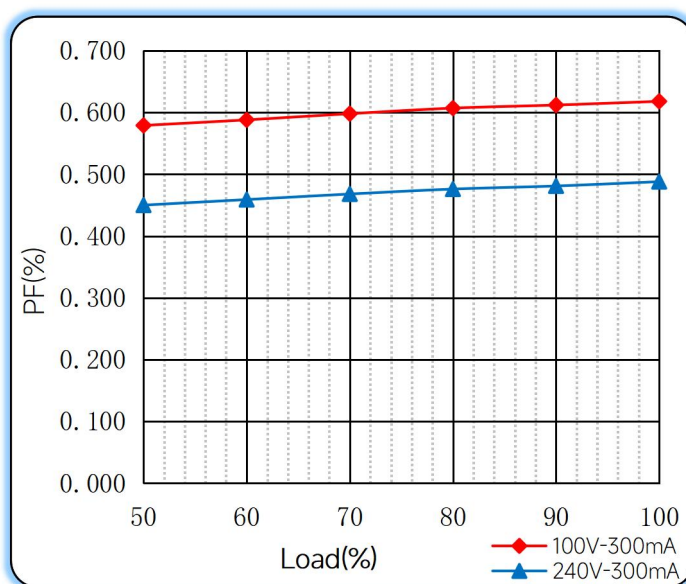
Lifetime vs. Temperature Curve



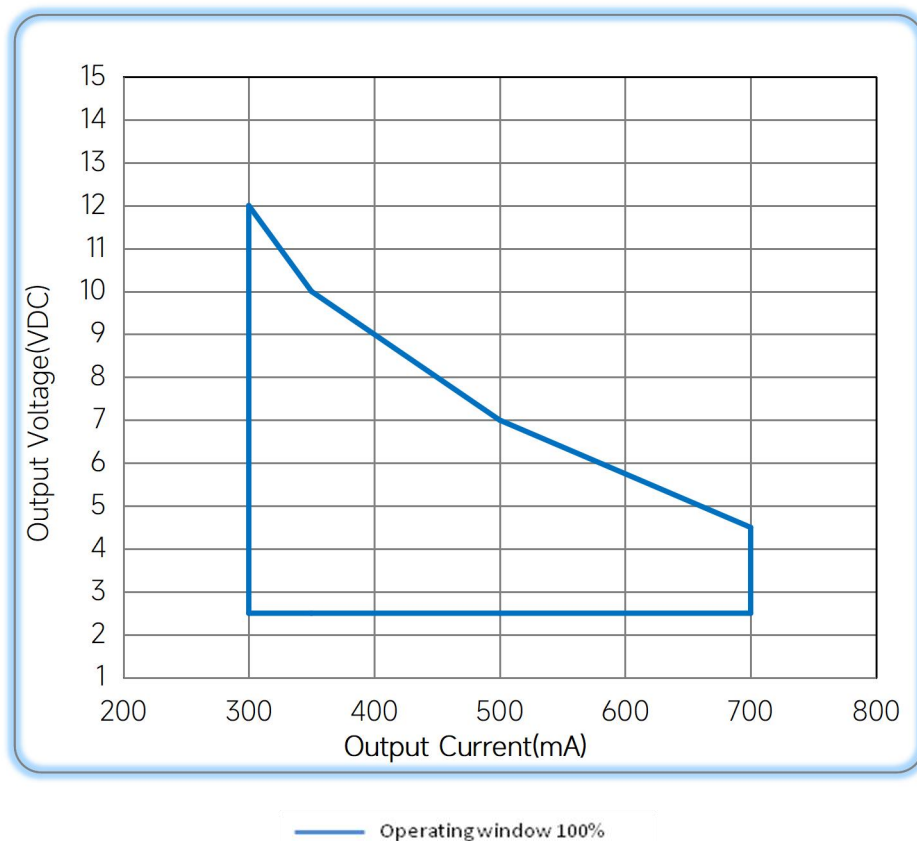
Efficiency vs. Load



Power Factor Characteristics



◆ 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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