

35W Constant Voltage-SH Series



■ Approve

CE SELV

Features

- Class II, SELV, built-in
- IP44 Ingress protection
- Input Voltage 100-240VAC
- Protections: SCP/OLP/OTP
- Power Factor ≥ 0.9
- Efficiency $\geq 82\%$ @ 24VDC/ $\geq 80\%$ @12VDC
- 5 years warranty

Applications

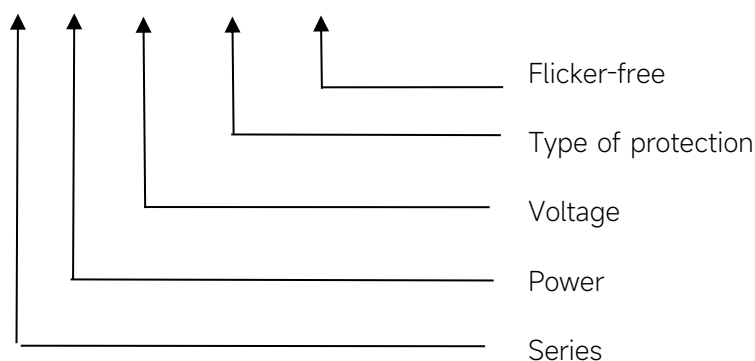
- LED strips

◆ Description

SH-35-xx IP44 LB is a 35W constant voltage LED driver that operates from 90-264Vac input with 12V or 24V output voltage. With it's slim dimensions from 98.5 x 57 x 29.5mm it is easy to integrate in LED strips products. To ensure trouble-free operation, protection is provided against output short circuit, over Load and over temperature.

◆ Model code

SH-35-XX IP44 LB

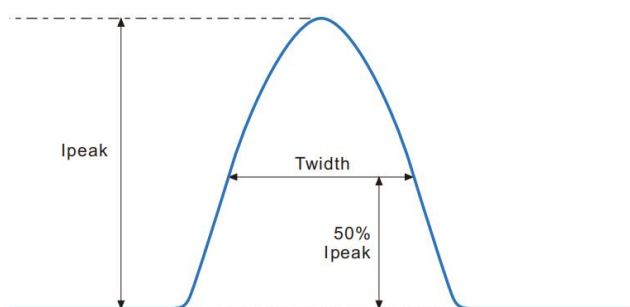


◆ Specification

Output	Constant Voltage	12VDC	24VDC
	Current Range	0-2.91A	0-1.46A
	Voltage Accuracy	±5%	
	Output HF current ripple(≥1KHz)	≤±3%	
	Output LF current ripple(≤120Hz)	≤±3%	
	SVM	≤0.4	
	Pst	≤1	
	Efficiency(Typ.)	≥80%	≥82%
Input	Rated input voltage	100-240VAC	
	Range of input voltage	90-264VAC	
	Frequency(Hz)	50/60 Hz	
	Displacement factor	≥0.9	
	Power Factor	0.9C	
	Input Current max	0.52A MAX.	
	Start-up time	< 0.5S	
	No Load Power	≤0.5W	
	THD (Typ.)	<15%	
Protection	Over Load Protection	130-150%	
		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	90°C	
	Storage Temperature	-20°C~+80°C	
	Life time	> 50000h@Tc=80°C	
Surface	Dimension	98.5x57x29.5 (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 using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor.		

◆ Inrush Current

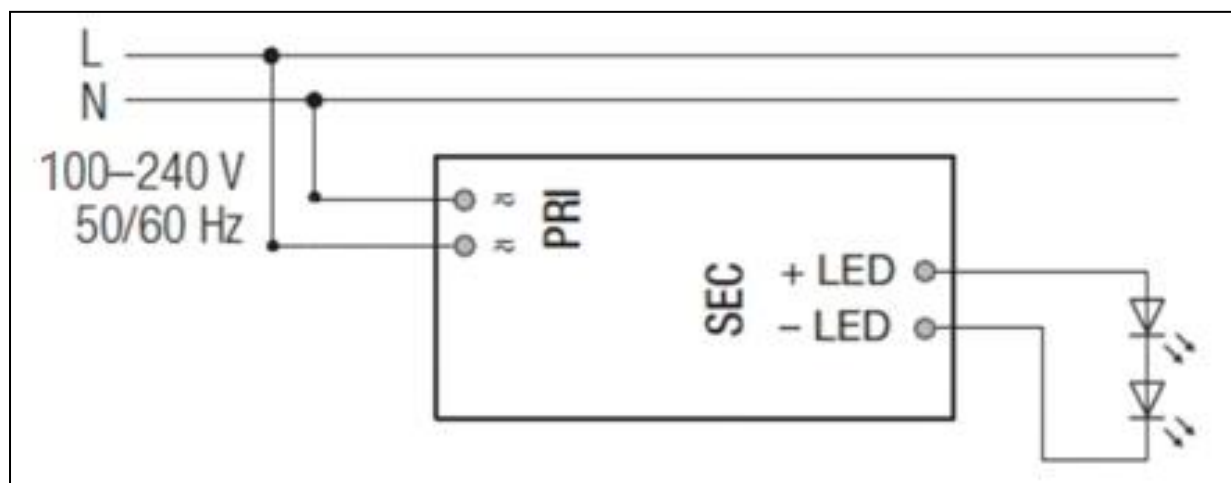
I_{peak}	Twidth	B10	B16	B20	C10	C16	C20
22.6A	224μs	15pcs	24pcs	30pcs	15pcs	24pcs	30pcs



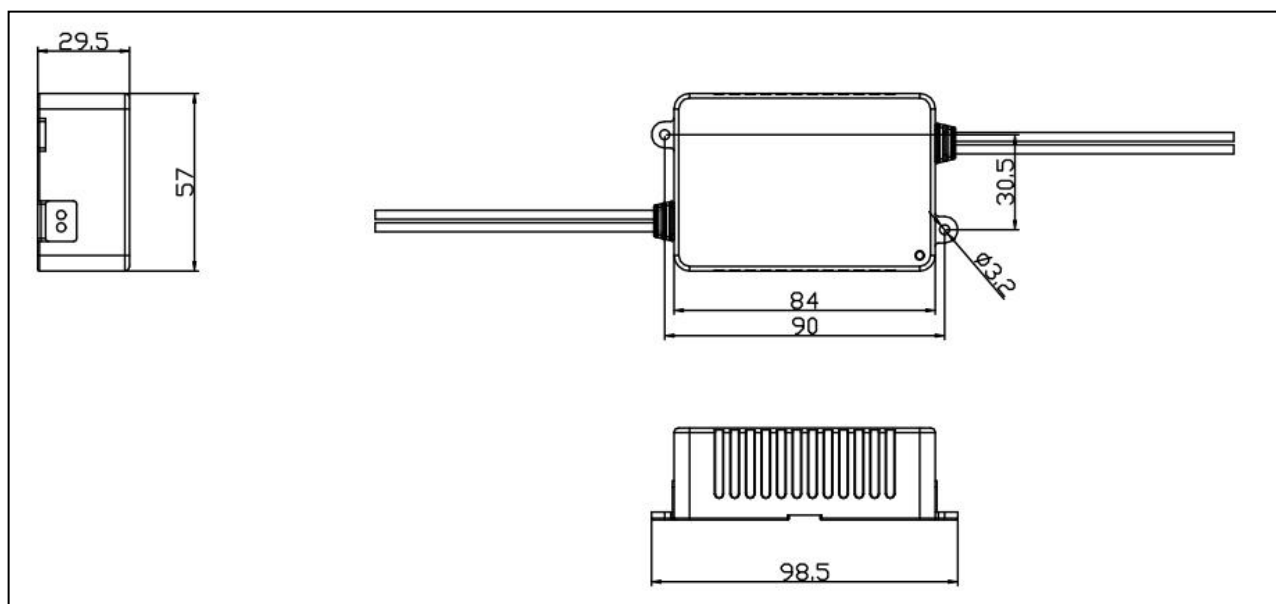
Remarks:

- 1.The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.
- 2.Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.

◆ Wiring diagram

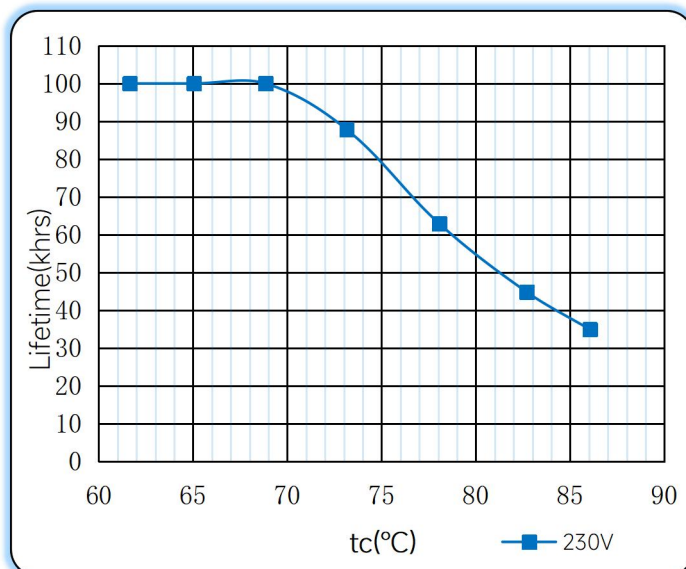


◆ 2D diagram

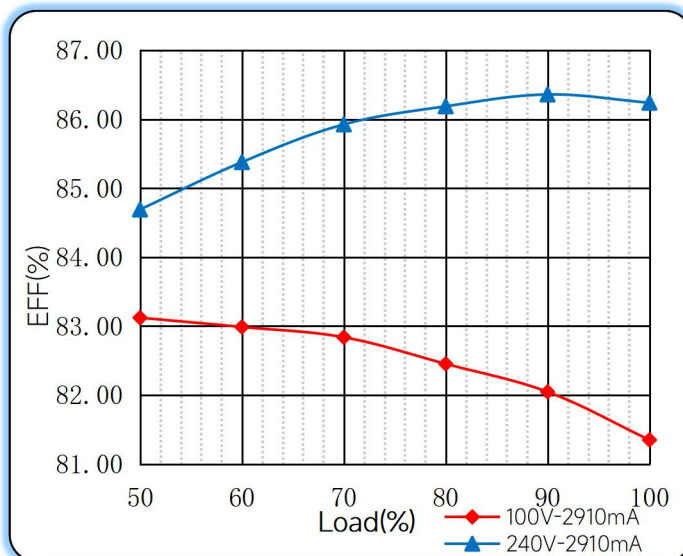


◆ Curve for SH-35-12 IP44 LB

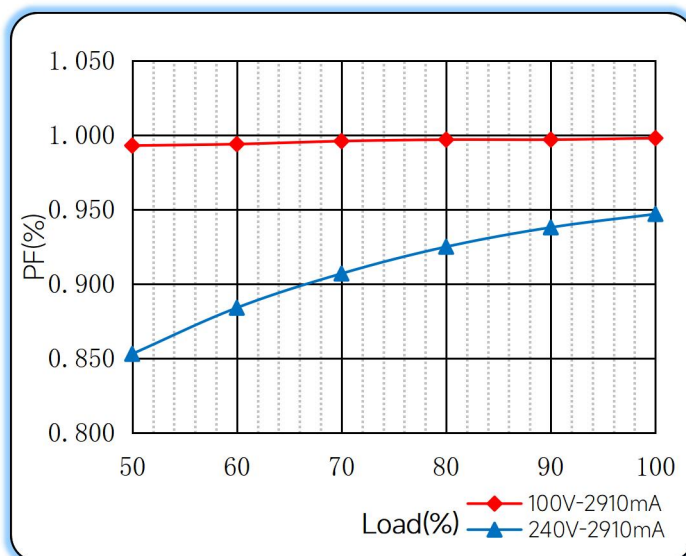
Lifetime vs. Temperature Curve



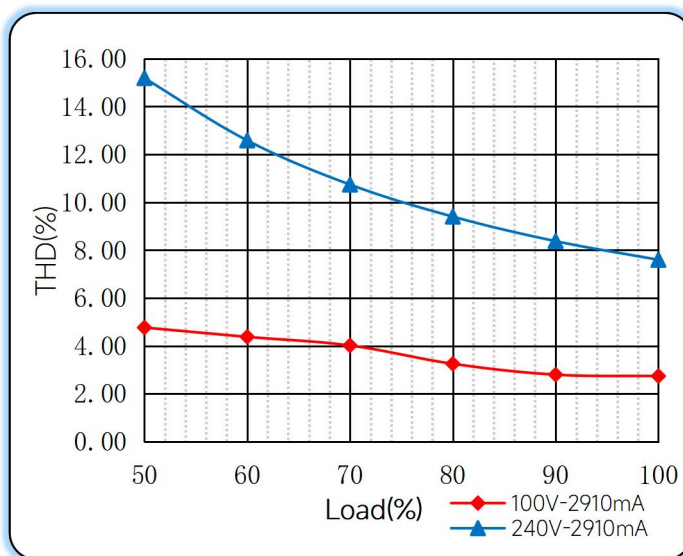
Efficiency vs. Load



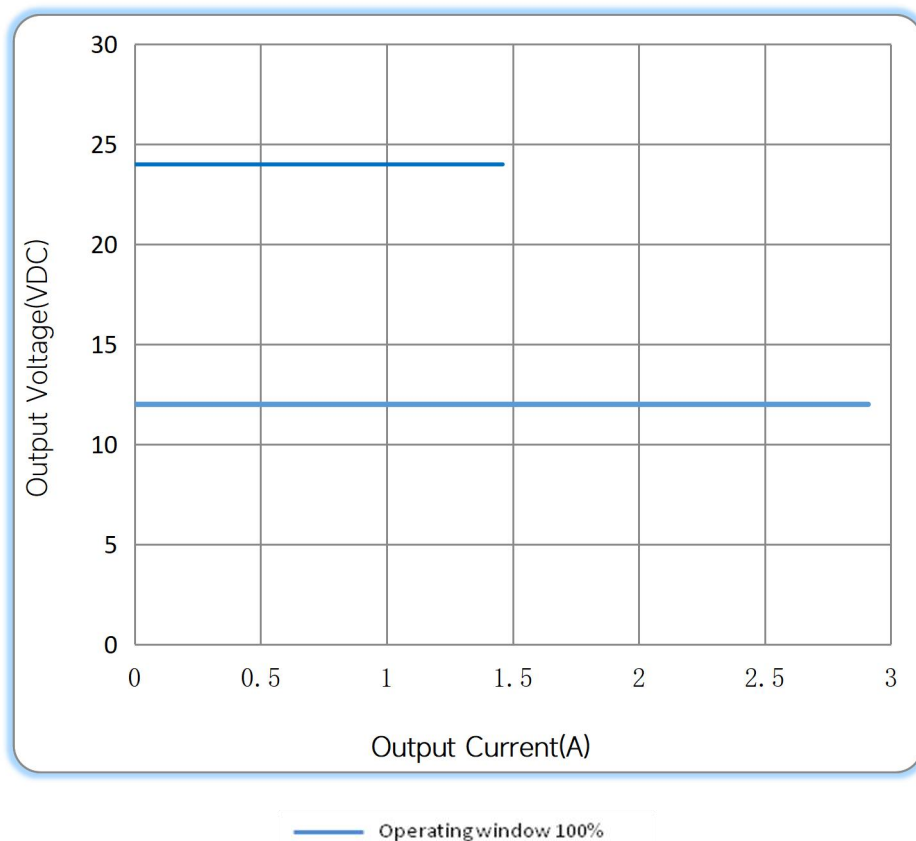
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

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

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Manual