

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

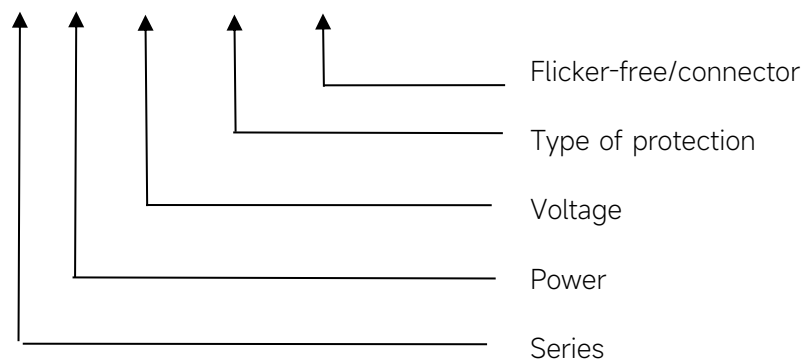
- LED strips

◆ Description

SH-35-xx IP44 LB is a 35W constant voltage LED driver that operates from 90-264Vac input with xxV 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.) | <10% | |
| Protection | Over Load Protection | 120-150% 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 | 85°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. | | |

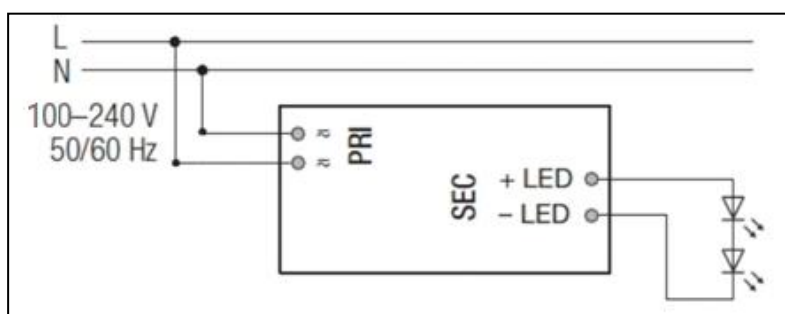
◆ Model list

| Model | Input Voltage Range | Output Voltage | Output Current Range | Max output Power | Power Factor | Typical Efficiency |
|------------------|---------------------|----------------|----------------------|------------------|--------------|--------------------|
| SH-35-12 IP44 LB | 90~264Vac | 12V | 0~1.46A | 34.92W | 0.9 | 80% |
| SH-35-24 IP44 LB | 90~264Vac | 24V | 0~2.91A | 35.01W | 0.9 | 82% |

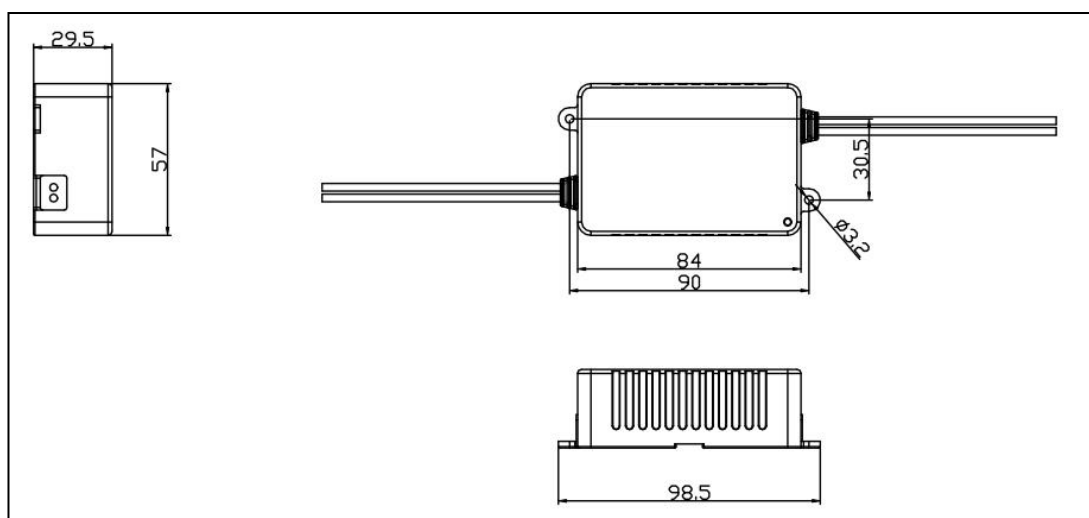
Note:

Test condition: 230Vac/50Hz, at full Load;

◆ Wiring diagram

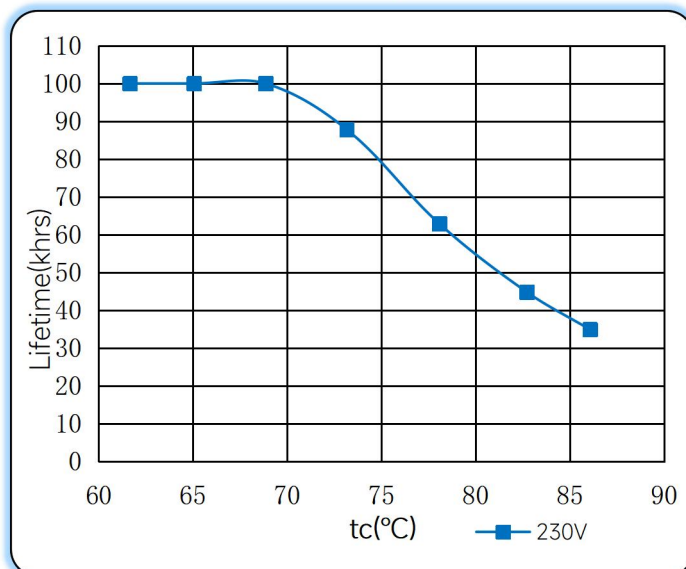


◆ 2D diagram

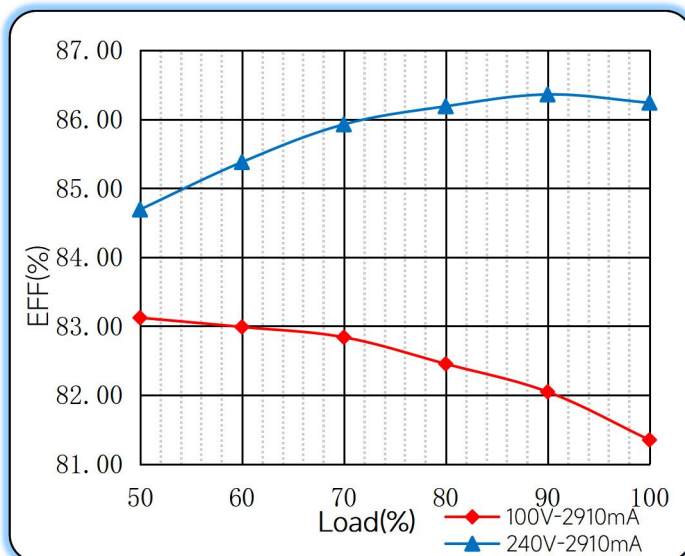


◆ Curve for SH-35-12 IP44 LB

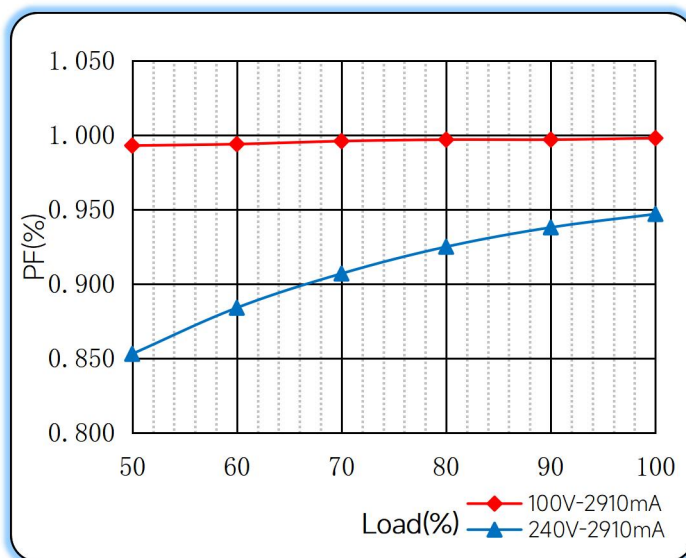
Lifetime vs. Ambient Temperature Curve



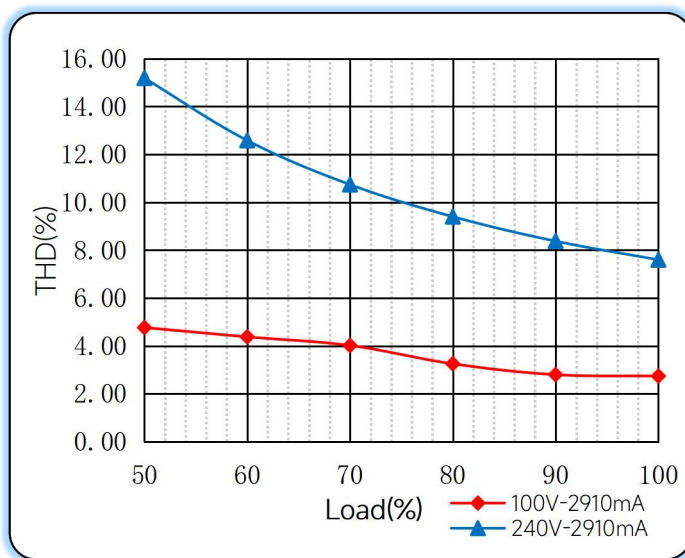
Efficiency vs. Load



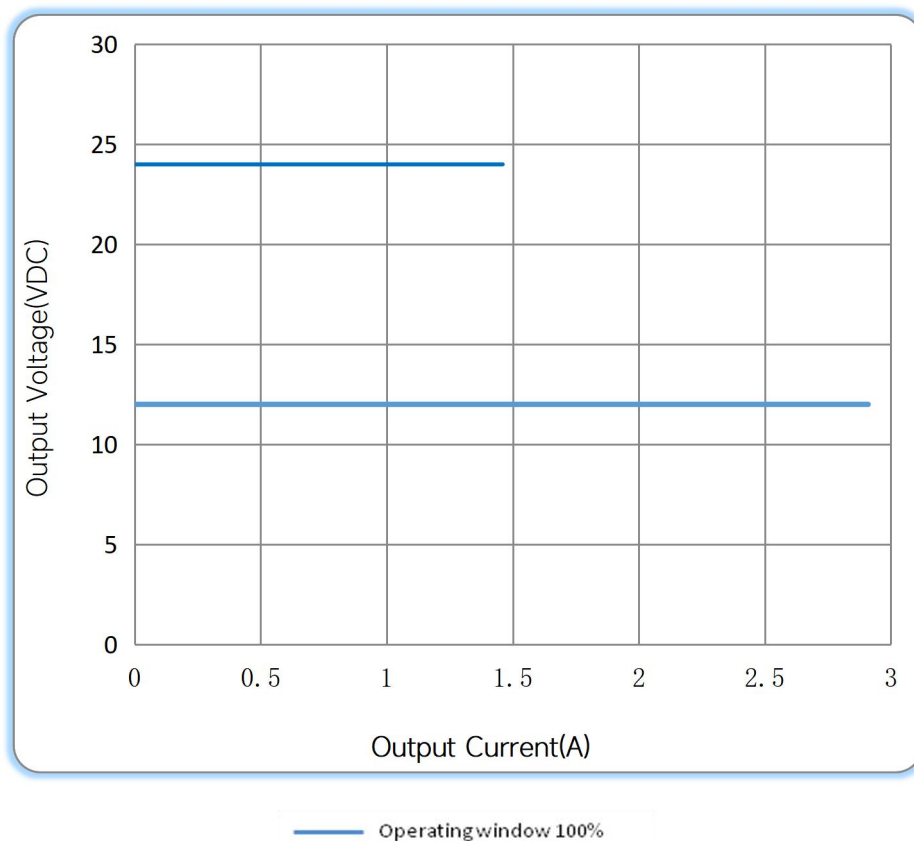
Power Factor Characteristics



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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