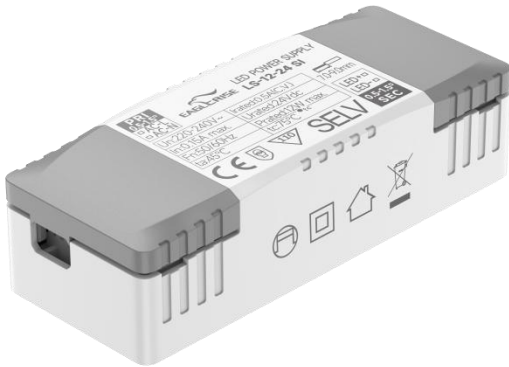


## 12W Constant Voltage-LS Series



### Features

- For luminaires of protection Class II, SELV, Independent
- Input Voltage: 220-240VAC
- Protections: SCP/OLP/OVP/OTP
- Power Factor: 0.6C
- Efficiency: 84%
- 5 years warranty

### Applications

- LED wall light

■ Approve

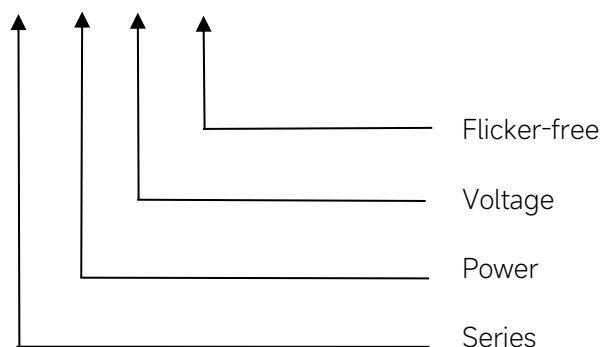


### ◆ Description

LS-12-XX SI is a 12W constant voltage LED driver that operates from 198-264Vac input with 12V or 24V output voltage. With it's dimensions from 92 x 36 x 25mm it is easy to integrate in LED wall light products. To ensure trouble-free operation, protection is provided against output short circuit, over load, over voltage and over temperature.

### ◆ Model code

LS-12-XX SI



## ◆ Specification

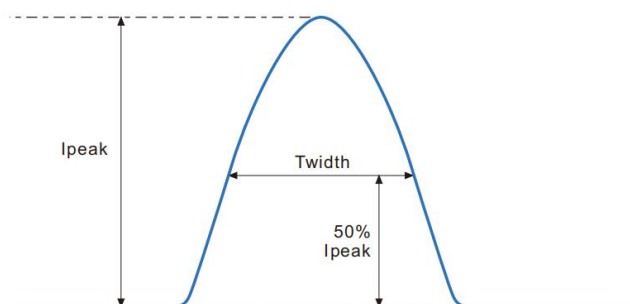
|                   |                                  |                                                                              |           |
|-------------------|----------------------------------|------------------------------------------------------------------------------|-----------|
| Output            | Constant Voltage                 | 12VDC                                                                        | 24VDC     |
|                   | Current Range                    | 0-1A                                                                         | 0-0.5A    |
|                   | Voltage Accuracy                 | ±5%                                                                          |           |
|                   | Output LF current ripple(≤120Hz) | ±5%                                                                          |           |
|                   | SVM                              | ≤0.4@Full load,230VAC                                                        |           |
|                   | Pst                              | ≤1@Full load,230VAC                                                          |           |
|                   | Efficiency(Typ.)                 | 84%@Full load,230VAC                                                         |           |
| Input             | Rated input voltage              | 220-240VAC                                                                   |           |
|                   | Range of input voltage           | 198-264VAC                                                                   |           |
|                   | Frequency(Hz)                    | 50/60 Hz                                                                     |           |
|                   | Displacement factor              | ≥0.7@Full Load, 230VAC                                                       |           |
|                   | Power Factor                     | 0.6C@Full Load, 230VAC                                                       |           |
|                   | Input Current max                | 0.15A MAX.                                                                   |           |
|                   | Start-up time                    | < 0.5S                                                                       |           |
|                   | No Load Power                    | ≤0.5W                                                                        |           |
| Protection        | Over Load Protection             | 103-130%                                                                     |           |
|                   |                                  | YES/Auto Resume                                                              |           |
|                   | Over Voltage Protection          | > 12.6VDC                                                                    | > 25.2VDC |
|                   |                                  | YES/Auto Resume                                                              |           |
|                   | Short Circuit Protection         | YES/Auto Resume                                                              |           |
| Capability        | Over Temperature Protection      | YES/Auto Resume                                                              |           |
|                   | Surge capability (L-N)           | 1KV                                                                          |           |
|                   | Surge capability (L/N-Ground)    | NA                                                                           |           |
| Withstand voltage | Input-Output                     | 3750V/5mA/60S                                                                |           |
| Environment       | Operating Temperature            | -20°C~+45°C                                                                  |           |
|                   | Humidity                         | 20%-90%RH                                                                    |           |
|                   | Tc                               | 75°C                                                                         |           |
|                   | Storage Temperature              | -20°C~+75°C                                                                  |           |
|                   | Life time                        | > 50000h@Tc=65°C                                                             |           |
|                   | Ripple & Noise                   | ≤25dB(A)@20cm                                                                |           |
| Surface           | Dimension                        | 92X36X25 (LXWXH)mm                                                           |           |
|                   | Material                         | PP                                                                           |           |
| Standards         | Safety                           | GB19510. 1, GB19510. 14;EN61347- 1, EN61347-2- 13                            |           |
|                   | EMC                              | GB/T17743, GB17625. 1;EN55015, EN61000-3-2, EN61000-3-3, EN61547;EN61000-4-5 |           |
|                   | 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 & 47uF parallel capacitor.
- 3.The efficiency testing will be affected by the instrument used and the results may also be different.
- 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.
- 5.75%-100% load can satisfy the harmonic requirement.

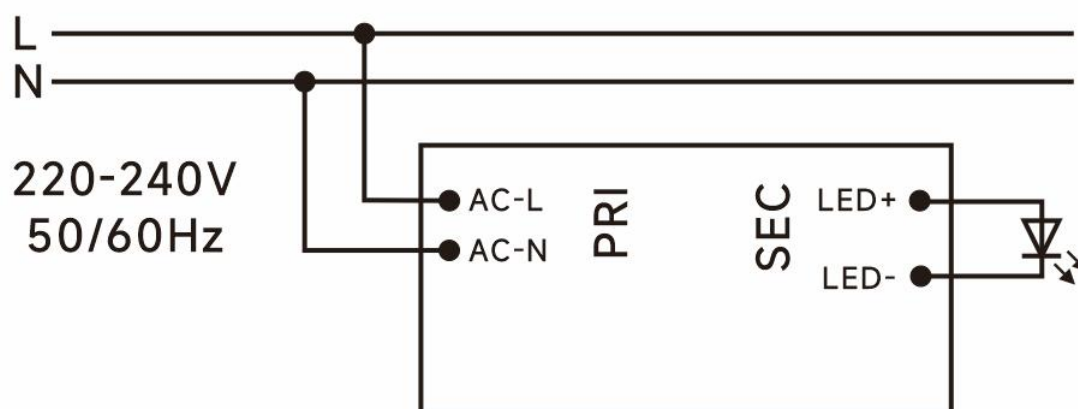
## ◆ Inrush Current

| $I_{peak}$ | Twidth | B10   | B16   | B20    | C10   | C16   | C20    |
|------------|--------|-------|-------|--------|-------|-------|--------|
| 9.8A       | 92μs   | 53pcs | 85pcs | 106pcs | 53pcs | 85pcs | 106pcs |

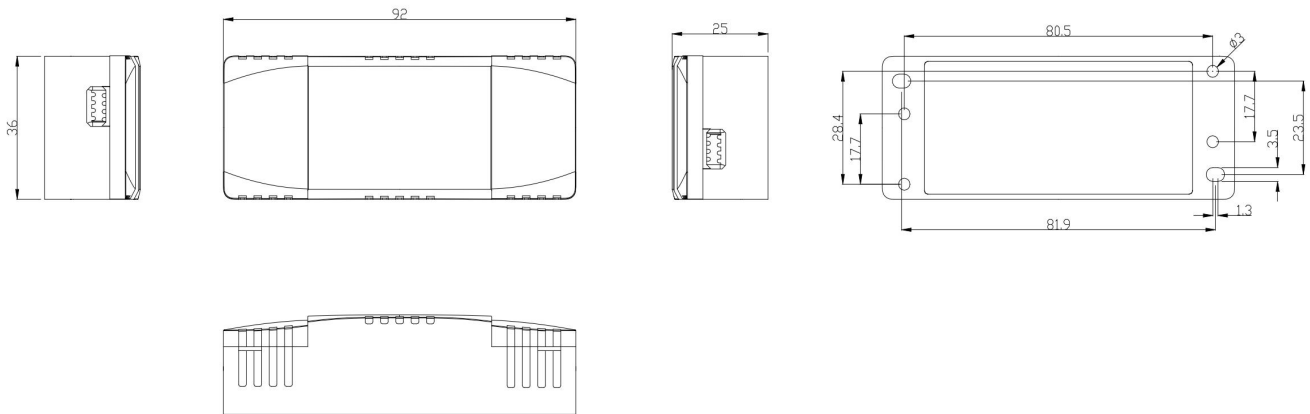

**Remarks:**

- 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



## ◆ Wiring & Connections

| Specification item |                           | Value (Unit )             |
|--------------------|---------------------------|---------------------------|
| Input              | Input wire cross-section  | 0.5...1.5 mm <sup>2</sup> |
|                    | Input wire gauge.         | 16...20 AWG               |
|                    | Input wire strip length   | 7...9mm                   |
| Output             | Output wire cross-section | 0.5...1.5 mm <sup>2</sup> |
|                    | Output wire gauge.        | 16...20 AWG               |
|                    | Output wire strip length  | 7...9mm                   |

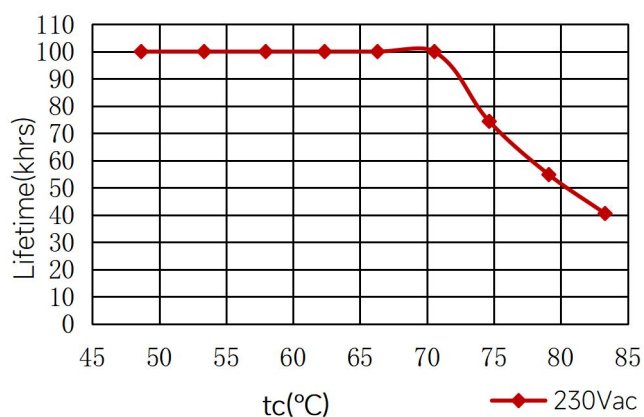
Note: Solid wire is risky to use on an angled terminal. Stranded wire is recommended for this kind of use.

## ◆ Packaging

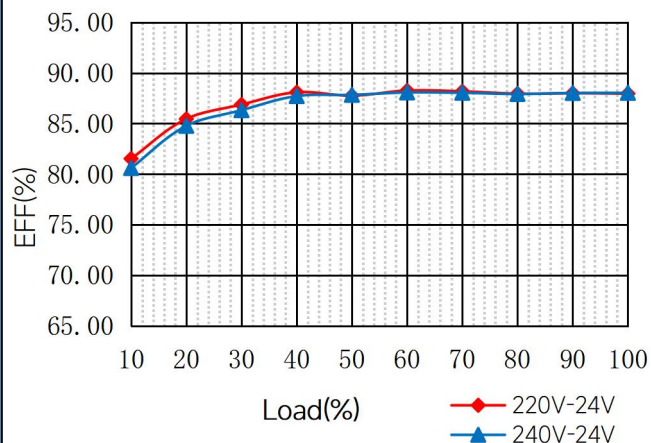
| Model       | Product Dimensions(mm) | weight/ piece(Kg) | Outer carton dimension(mm) | Quantity/carton | Net weight/carton(Kg) | Gross weight/carton(Kg) |
|-------------|------------------------|-------------------|----------------------------|-----------------|-----------------------|-------------------------|
| LS-12-XX SI | 92 x 36 x 25mm         | 0.043             | 380 x 285 x 230mm          | 180             | 7.74                  | 8.1                     |

## ◆ Curve for LS-12-24 SI

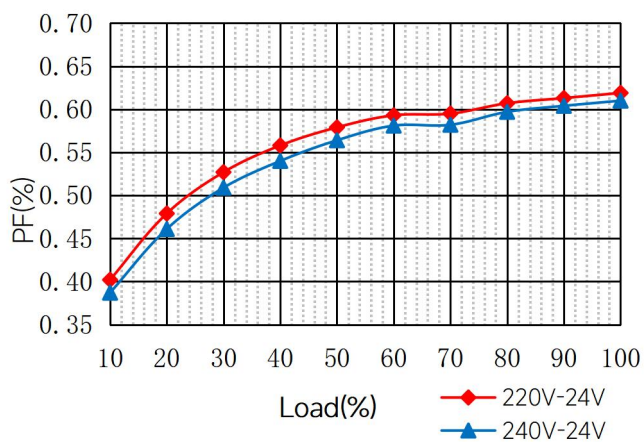
Lifetime vs. Temperature Curve



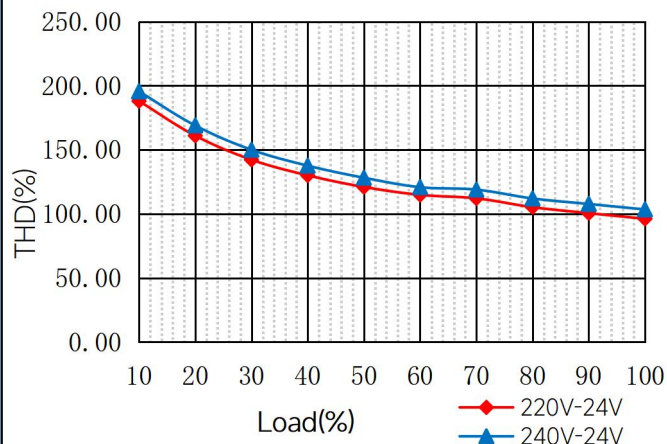
Efficiency vs. Load



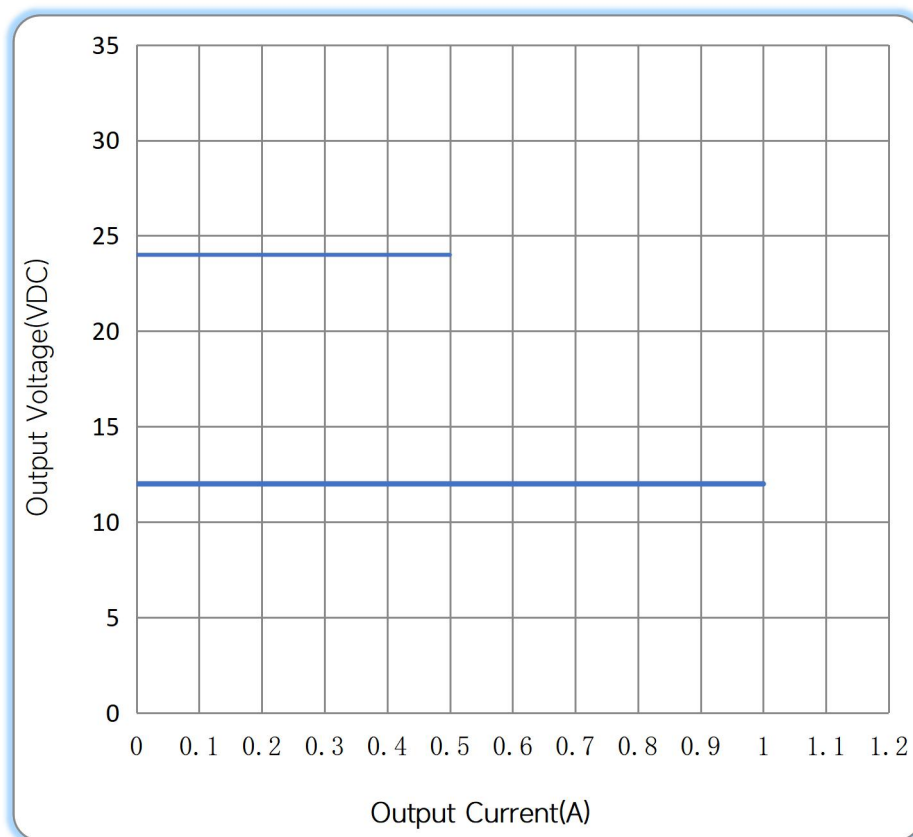
Power Factor Characteristics



THD vs. Load



## ◆ Operating window



— Operating window 100%

## ◆ Revision Updates

| ITEM                 | BEFORE   | AFTER    | VERSION | DATE       |
|----------------------|----------|----------|---------|------------|
| Initial              |          |          | A       | 2026/01/04 |
| Over Load Protection | 103-120% | 103-130% | B       | 2026/05/14 |

Remark: The final interpretation of the contents of the specification belongs to Eaglerise Electric & Electronic (China) Co., Ltd.

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EAGLERISE



Manual