

160W Constant Voltage Slim-US Series



Features

- Class II, SELV, Independent
- Input Voltage 220-240VAC
- Protections: SCP/OLP/OTP
- Power Factor > 0.95
- Efficiency ≥92%
- 5 years warranty

Applications

- LED strips

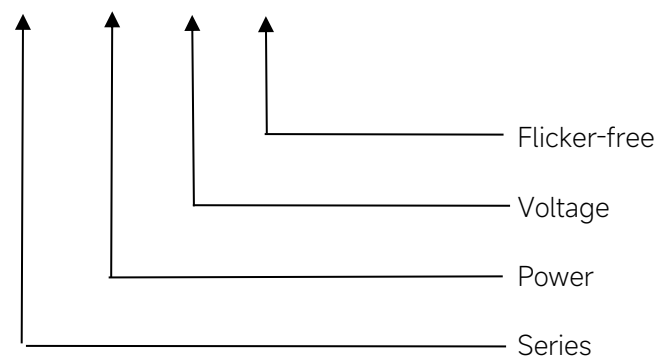


◆ Description

US-160-XX LI2 is a 160W constant voltage LED driver that operates from 198-264Vac input with 24V or 48V output voltage. With it's compact dimensions from 395 x 30.5 x 21.5mm. It is easy to integrate in LED strips product. To ensure trouble-free operation, protection is provided against output short circuit and over Load.

◆ Model code

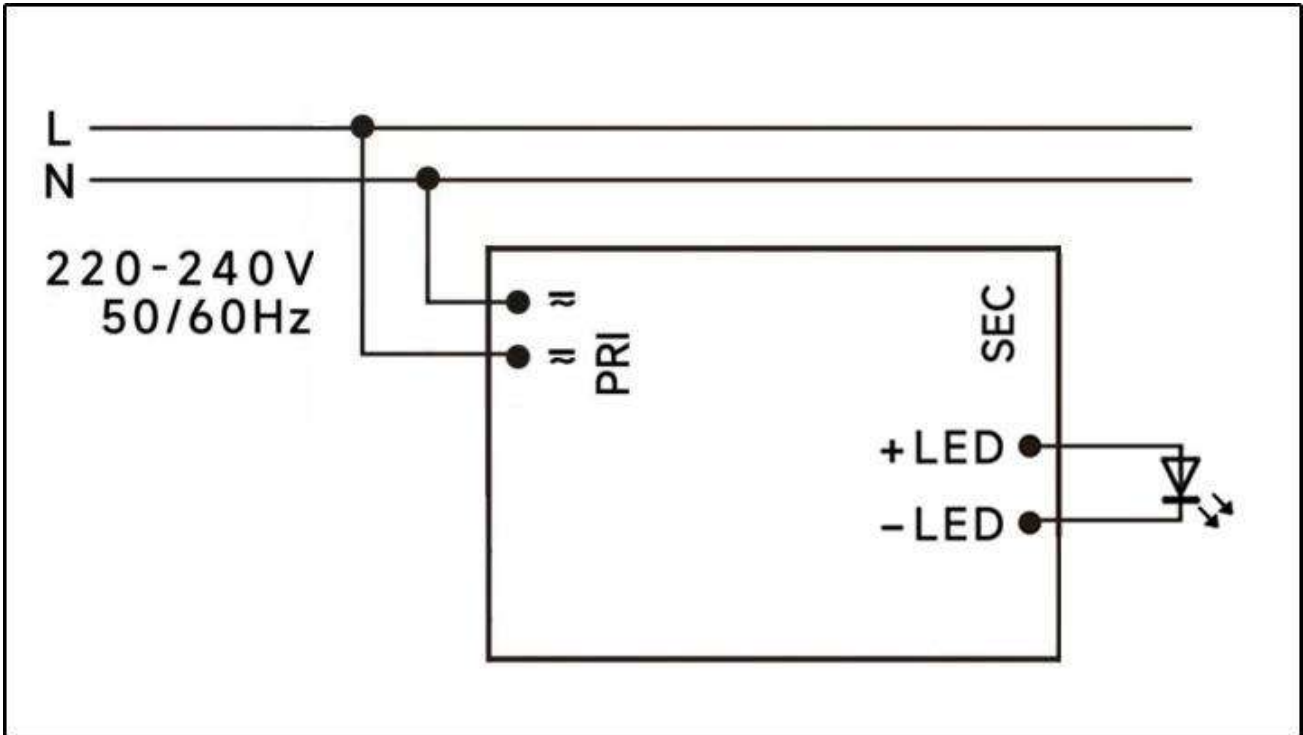
US-160-XX LI2



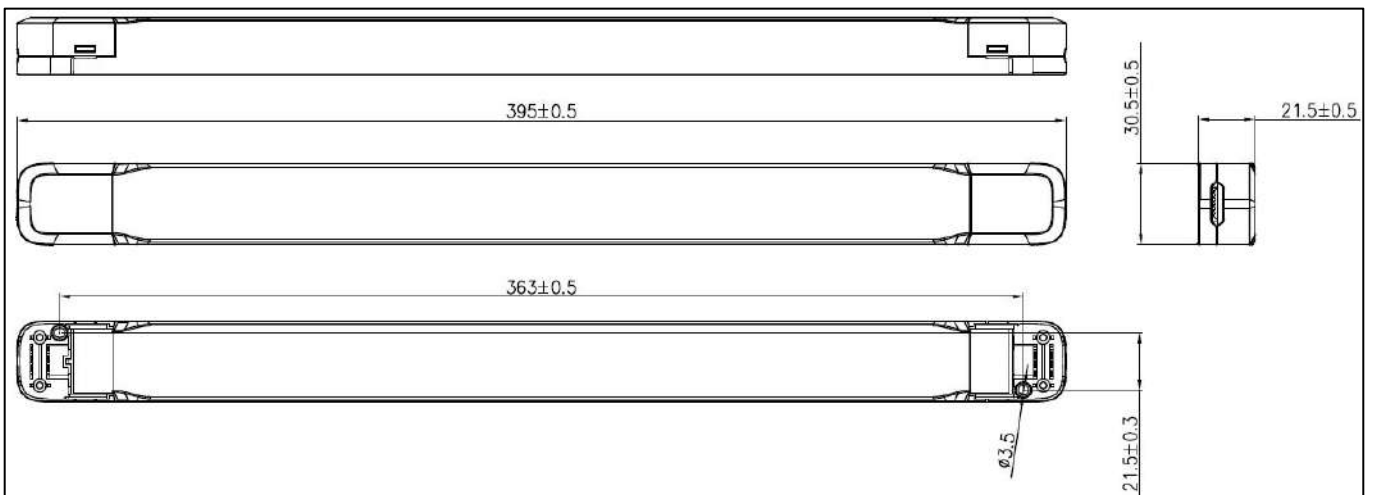
◆ Specification

| | | | |
|-------------|---|--------------------------------|---------|
| Output | Constant Voltage | 24VDC | 48VDC |
| | Current Range | 0-6.67A | 0-3.33A |
| | Voltage Accuracy | ±5% | |
| | Output HF current ripple(≥1KHz) | ±1% | |
| | Output LF current ripple(≤120Hz) | ±1% | |
| | SVM | ≤0.4@Full Load | |
| | Pst | ≤1@Full Load | |
| | Efficiency(Typ.) | ≥92%@Full load,230V | |
| Input | Rated input voltage | 220-240VAC | |
| | Range of input voltage | 198-264VAC | |
| | Rated input voltage(DC) | 176-250VDC | |
| | Frequency(Hz) | 0/50/60 Hz | |
| | Power Factor | ≥0.95@Full load,230V | |
| | Input Current max | 1A | |
| | Start-up time | < 0.5S | |
| | No Load Power | ≤0.5W | |
| | THD (Typ.) | < 8%@Full load,230V | |
| Protection | Over Load Protection | 105-150% | |
| | | YES/Auto Resume | |
| | Short circuit Protection | YES/Auto Resume | |
| | YES/Auto Resume | | |
| Environment | Operating Temperature | -20°C~+45°C | |
| | Humidity | 20%-90%RH | |
| | Tc | 80°C | 90°C |
| | Storage Temperature | -20°C~+60°C | |
| | Life time | > 50000h@Tc=80°C,230VAC | |
| Surface | Dimension | 395X30.5X21.5(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 | <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.Data are typical values obtained from test samples.</p> <p>4.Dimmers are not recommended for this product.</p> | | |

◆ Wiring diagram

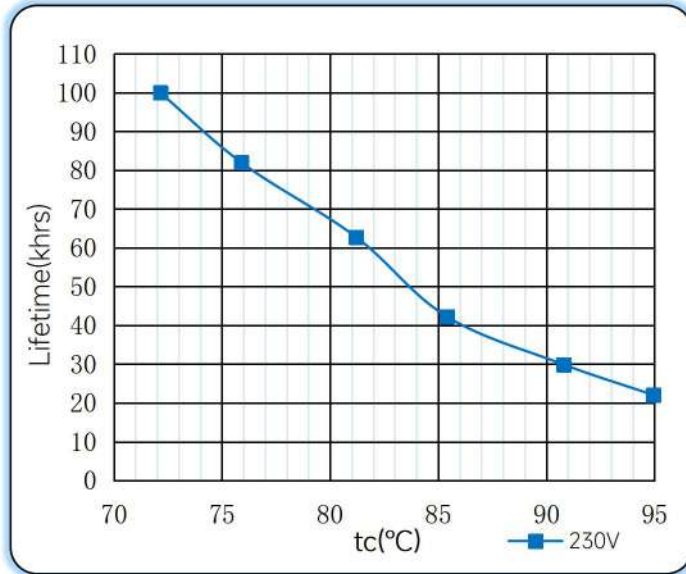


◆ 2D diagram

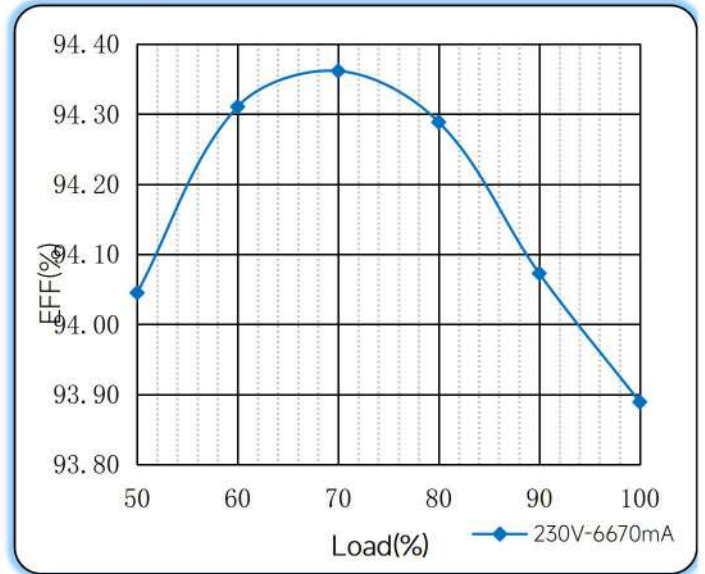


◆ Curve for US-160-12 LI2

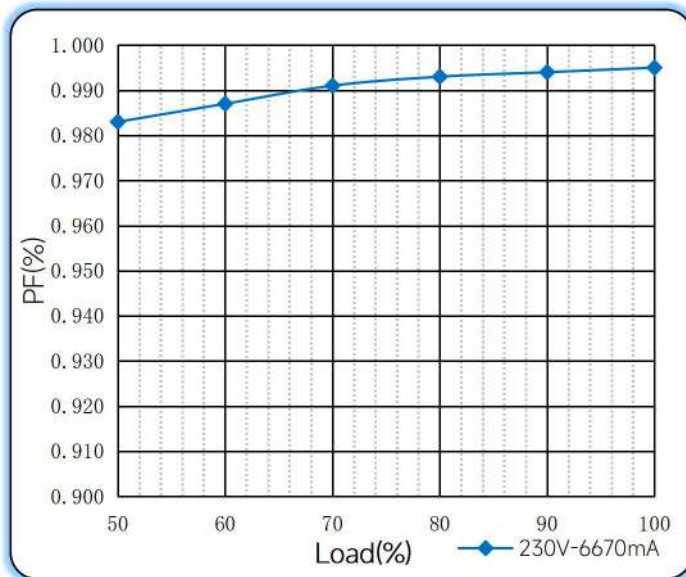
Lifetime vs. Temperature Curve



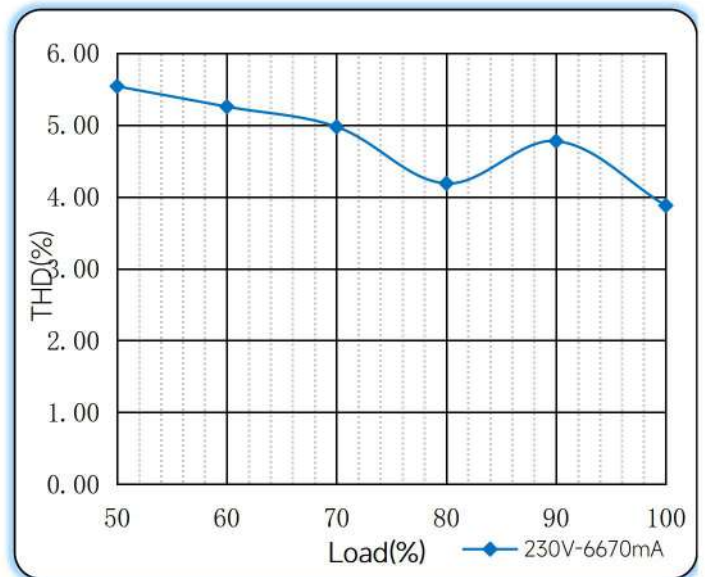
Efficiency vs. Load



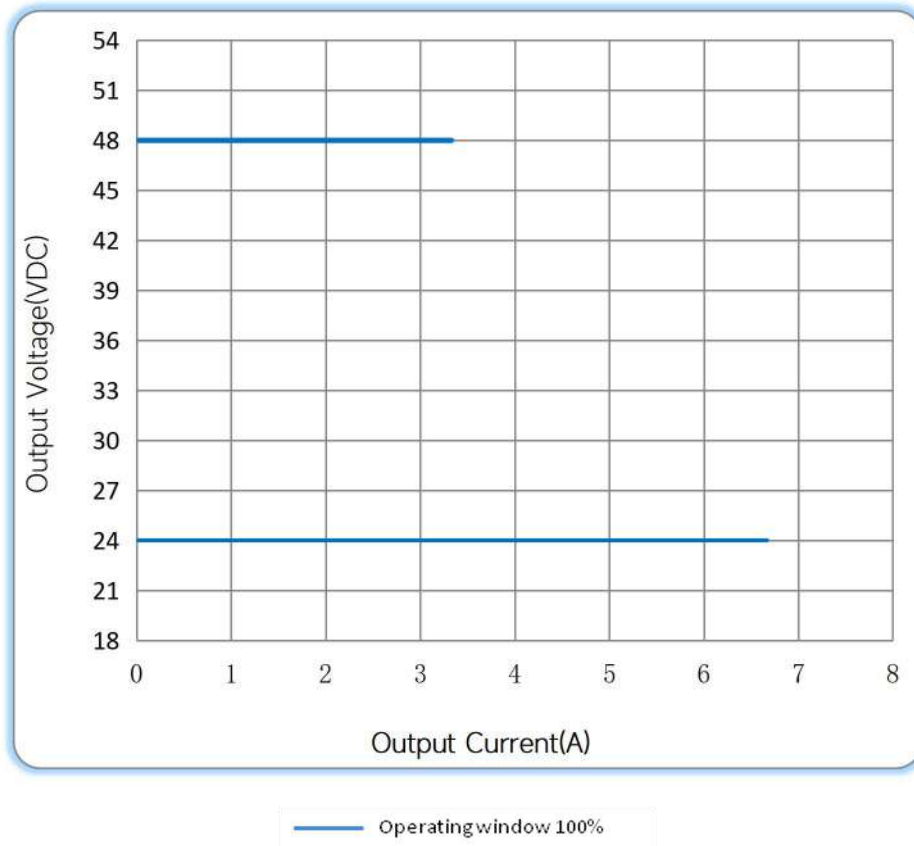
Power Factor Characteristics



THD vs. Load



◆ Operating window



◆ Revision Updates

| ITEM | BEFORE | AFTER | VERSION | DATE |
|---------|---------------|---------------|---------|------------|
| Initial | | | A | 2022/05/15 |
| Name | US-160-XX LI1 | US-160-XX LI2 | B | 2023/06/28 |

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Manual