# Constant Voltage LED Power Supply

SLT60-12VFG-UN SLT60-24VFG-UN





### Product description:

This type of power supply is an exclusively designed stabilized power supply for LED lamp. With constant voltage (CV) technology, it is suitable for constant voltage lamps (12/24VDC) connected in parallels. As an advantage of constant voltage (CV) technology, a switch can be installed between secondary side and lamps.

The built-in protection circuit will shut down the power supply in case of such faults as: open circuit, short circuit, over load. The power supply will restart automatically after fault correction.

In Over Temperature Protection, the power supply will shut down in case of interior or exterior temperature exceed, after temperature goes down, this fault can be eliminate with re-power.

#### Standards:

EN61347-1

UL8750

EN61347-2-13

FCC15B

EN61547

EN55015

EN61000-3-2

EN61000-3-3

EN62384

EN62493

#### Characteristics:

- Universal input voltage(AC120-240V)
- Independent power supply for constant voltage LED lamp
- Suitable for class I or class II luminaires
- Super thin
- SELV/UL 8750 class 2 output
- Open circuit, short circuit, over load and over temperature protection
- · Auto restart after fault conditions removal
- No load power consumption≤0.3W

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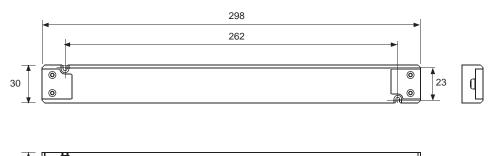


## Specifications:

| Model      |  | SLT60-12VFG-UN        | SLT60-24VFG-UN  |  |  |  |  |
|------------|--|-----------------------|-----------------|--|--|--|--|
|            | turn on time(S)  | ≤0.5                  | ≤0.5            |  |  |  |  |
|            | output power(W)  | 60                    | 60              |  |  |  |  |
|            | output votage(V)   | 12                    | 24              |  |  |  |  |
|            | output voltage tolerance   | +/-5%                 | +/-5%           |  |  |  |  |
| Output     | ripple voltage(mV)   | 230(Vp-p)             | 200(Vp-p)       |  |  |  |  |
|            | working current range(A)   | 0-5                   | 0-2.5           |  |  |  |  |
|            | dimming interface  | No                    |                 |  |  |  |  |
|            | dimming range  | n/a                   |                 |  |  |  |  |
|            | rated supply voltage(Vac)  | 120-240               | 120-240         |  |  |  |  |
|            | voltage range(Vac)   | 108-264               | 108-264         |  |  |  |  |
| Input      | line frequency(Hz)   | 50/60                 | 50/60           |  |  |  |  |
|            | input current(mA)  | 600                   | 600             |  |  |  |  |
|            | efficiency 2   | 91.1%                 | 91.6%           |  |  |  |  |
|            | average efficiency 6   | 89%                   | 89%             |  |  |  |  |
|            | no load power consumption(W)   | ≤0.3                  | ≤0.3            |  |  |  |  |
|            | power factor <sup>©</sup>  | 0.95                  | 0.95            |  |  |  |  |
|            | inrush current(lpk)  | 46A/180us             | 46A/180us       |  |  |  |  |
|            | over voltage protection  | YES                   | YES             |  |  |  |  |
| Protection | short circuit protection   | YES                   | YES             |  |  |  |  |
|            | over temperature protection  | latch 2               | latch 2         |  |  |  |  |
|            | over load protection   | YES                   | YES             |  |  |  |  |
|            | automatic restart  | Yes, except OTP       | Yes, except OTP |  |  |  |  |
|            | surge capacity   | L-N:1kV               | L-N:1kV         |  |  |  |  |
|            | Ta(℃)  | -2045                 | -2045           |  |  |  |  |
|            | Tc max.(℃)   | 90                    | 90              |  |  |  |  |
| Ambient    | Storage Temperature(℃)   | -3080                 |                 |  |  |  |  |
| and Life   | ambient humidity range   | 5%85%, Not condensing |                 |  |  |  |  |
|            | nominal life-time(hrs)   | 50000@Tc=85°C         |                 |  |  |  |  |
|            | weight(g)  | 162                   | 162             |  |  |  |  |
|            | dimensions (L×W×H)(mm)   | 298x30x16             |                 |  |  |  |  |
| Other      | casing material  | Plastic               |                 |  |  |  |  |
| Officer    | housing colour   | Grey+Blue             |                 |  |  |  |  |
|            | type of protection   | IP20                  |                 |  |  |  |  |
|            | protection class   | Class2                |                 |  |  |  |  |
| Note       | 1. Tolerance:includes set up tolerance, line regulation and load regulation. 2. Tested at full load,230Vac.Refer to "Power Factor" and "EFFICIENT" curve graphs. 3. Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic erage of these four values. 4. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. |                       |                 |  |  |  |  |

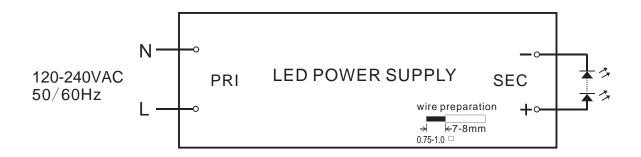


### Dimensions(mm):



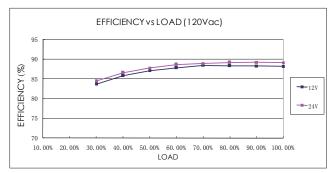
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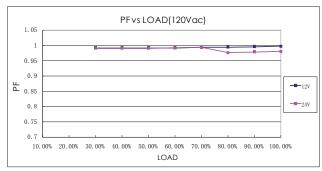
# Wiring diagram:

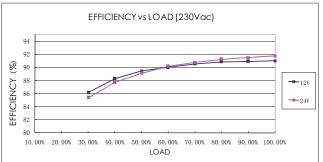


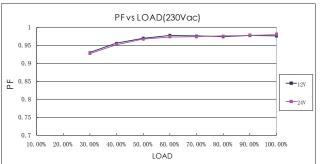


## Electrical curves:









#### note

For constant current power supply, "LOAD" means the percentage of the maximum rated output voltage. For constant voltage power supply, "LOAD" means the percentage of the maximum rated output current.



### MCBS information:

| Miniature circuit<br>breaker<br>Model<br>Model | B10 | B13 | B16 | B20 | C10 | C13 | C16 | C20 |
|--|-----|-----|-----|-----|-----|-----|-----|-----|
| SLT60-12VFG-UN                                 | 9   | 13  | 16  | 21  | 18  | 21  | 29  | 36  |
| SLT60-24VFG-UN                                 | 9   | 13  | 16  | 21  | 18  | 21  | 29  | 36  |

### Order information:

| Order.No.        | Model          | Carton quantity(pcs) | Carton dimension(mm) | G.W./CTN(kg) |
|------------------|----------------|----------------------|----------------------|--------------|
| 1001-910064-0132 | SLT60-12VFG-UN | 50                   | 335x275x225          | 9.0          |
| 1001-910065-0132 | SLT60-24VFG-UN | 50                   | 335x275x225          | 9.7          |

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