



Constant Voltage LED Power Supply

SLT250-24VLG-E

SLT250-48VLG-E



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 (24/48V) connected in parallel. 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 eliminated with re-power.

Standards:

EN61347-1
EN61347-2-13
EN61547
EN55015
EN61000-3-2
EN61000-3-3
EN62384
EN62493
EN60335-1
EN60335-2-24
EN60335-2-89

Characteristics:

- Independent power supply for constant voltage LED lamp
- Class II protection against electric shock from direct and indirect contact
- Start-up time $\leq 0.5s$
- Meet L-N 1KV surge immunity level
- No load power consumption $\leq 0.5W$
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after removal of fault conditions (except OTP)
- Class I and II lamp application
- ECO design, comply with ERP directives
- Warranty : 5 Years

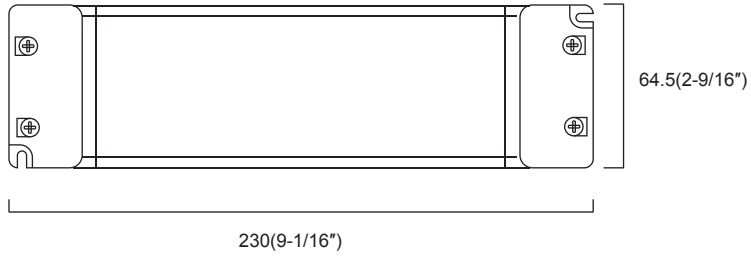


Specifications:

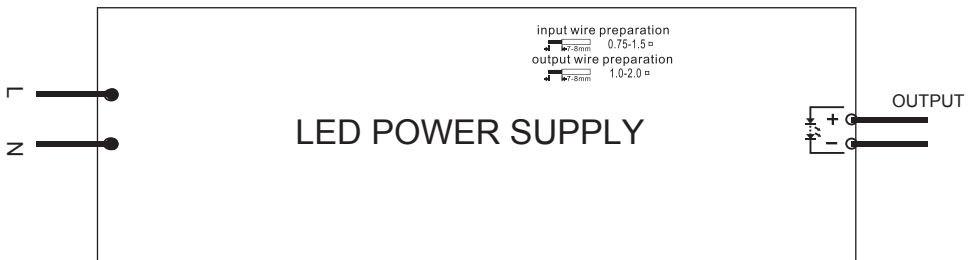
| Model | | SLT250-24VLG-E | SLT250-48VLG-E |
|------------------|--|--|--|
| Output | turn on time(S) | <0.5 | <0.5 |
| | output power(W) | 0-250W | 0-250W |
| | output voltage(V) | 24 | 48 |
| | output voltage tolerance ¹ | ≤±3% | ≤±3% |
| | ripple voltage(mV) | 480(Vp-p) | 600(Vp-p) |
| | working current range(A) | 0-10.4 | 0-5.2 |
| | dimming interface | No | No |
| | dimming range | n/a | n/a |
| Input | rated DC supply voltage(Vdc) | 220-280Vdc | 220-280Vdc |
| | rated supply voltage(Vac) | 220-240 | 220-240 |
| | voltage range(Vac) | 198-264 | 198-264 |
| | line frequency(Hz) | 0/50/60 | 0/50/60 |
| | input current(A) | 1.25@230V | 1.25@230V |
| | efficiency ² | 94% | 94% |
| | average efficiency ³ | 92% | 92% |
| | no load power consumption(W) | ≤0.5 | ≤0.5 |
| | power factor ² | 0.95 | 0.95 |
| | inrush current(lpk) | 120A/72us | 120A/72us |
| Protection | short circuit protection | hiccup mode, restart automatically after fault correction. | hiccup mode, restart automatically after fault correction. |
| | over temperature protection | YES | YES |
| | over load protection | YES | YES |
| | over load capacity | exceed 1.1 times of rated load range | exceed 1.1 times of rated load range |
| | automatic restart | YES, Except OTP | YES, Except OTP |
| | surge capacity | L-N:1kV | L-N:1kV |
| Ambient and Life | Ta(°C) | -20-40 | -20-40 |
| | Tc max.(°C) | 90 | 90 |
| | Storage Temperature(°C) | -30...80 | -30...80 |
| | ambient humidity range | 5%...85%, Not condensing | 5%...85%, Not condensing |
| | nominal life-time(hrs) | 50000@Tc=90 C | 50000@Tc=90 C |
| Other | weight(g) | 655 | 655 |
| | dimensions (LxWxH)(mm) | 230×64.5×32.5 | 230×64.5×32.5 |
| | casing material | Plastic | Plastic |
| | housing colour | Grey+Blue | Grey+Blue |
| | type of protection | IP20 | IP20 |
| | protection class | Class II for EU | Class II for EU |
| Note | <p>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 average 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.</p> | | |



Dimensions(mm):

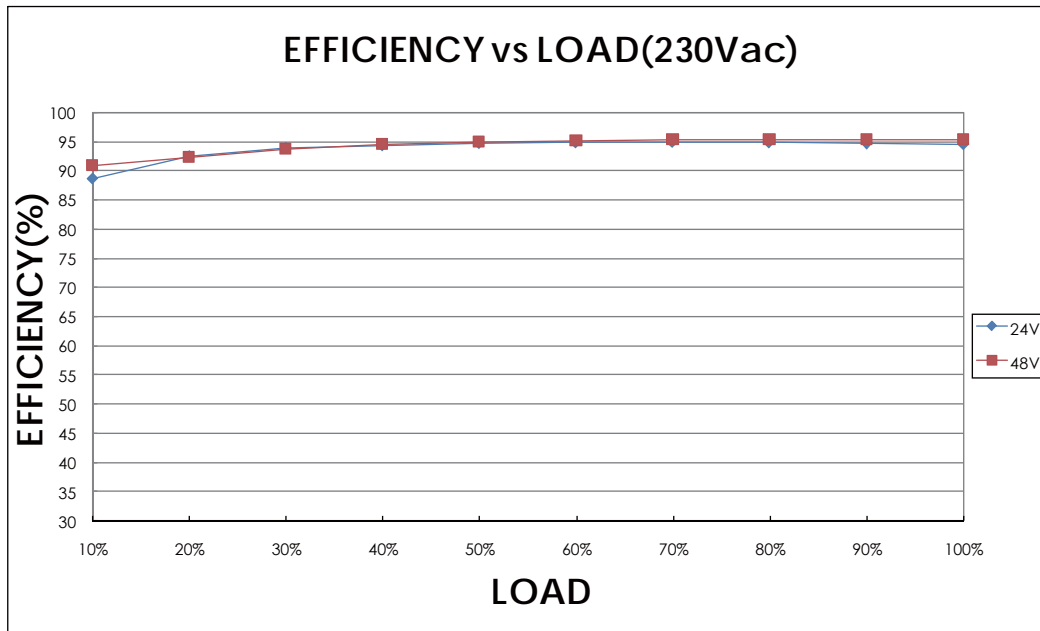
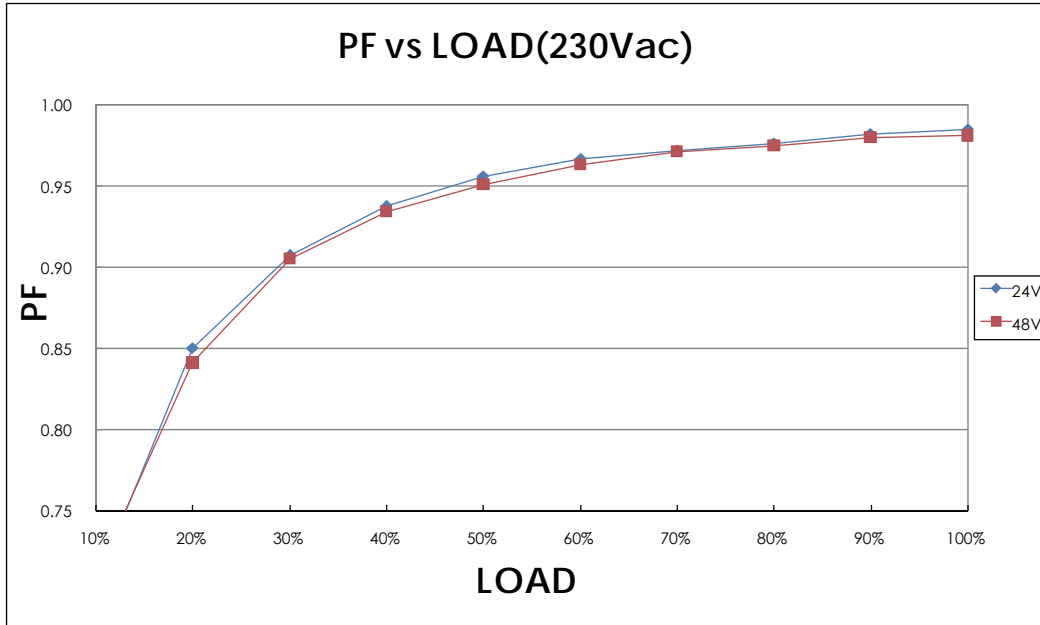


Wiring Diagram





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 breaker Model | B10 | B13 | B16 | B20 | C10 | C13 | C16 | C20 |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| SLT250-24VLG-E | 3 | 4 | 5 | 7 | 5 | 7 | 9 | 11 |
| SLT250-48VLG-E | 3 | 4 | 5 | 7 | 5 | 7 | 9 | 11 |

Order information:

| Order.No. | Model | Carton quantity(pcs) | Carton dimension(mm) | G.W./CTN(kg) |
|------------------|----------------|----------------------|----------------------|--------------|
| 1001-610173-0130 | SLT250-24VLG-E | 20 | 430x270x215 | 14.6 |
| 1001-610190-0130 | SLT250-48VLG-E | 20 | 430x270x215 | 14.6 |