

Constant Voltage LED Power Supply

SLT100-12VFG

SLT100-24VFG-UN

SLT100-48VFG-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 (12/24/48V DC) 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 | |

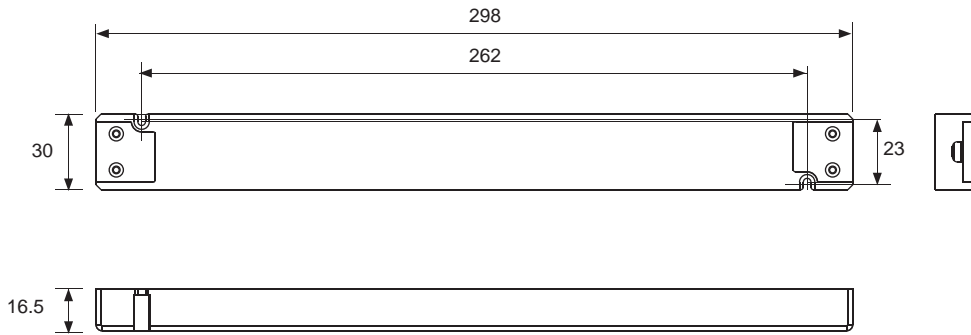
Characteristics:

- Terminal block for quick connection
- Class II protection against electric shock from direct and indirect contact
- SELV output(<60V)
- Fast start-up time <0.5s
- Open circuit, short circuit, over load and over temperature protection
- Super thin design
- No load power consumption ≤0.3W (for 12/24V version)
- Efficiency: ≥92% (AC230V, full load)

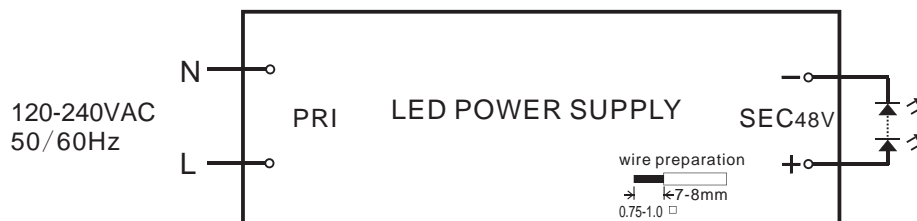
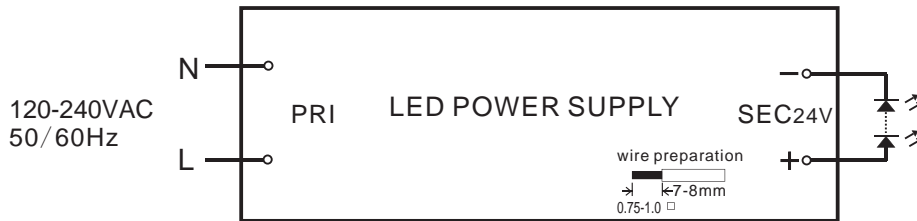
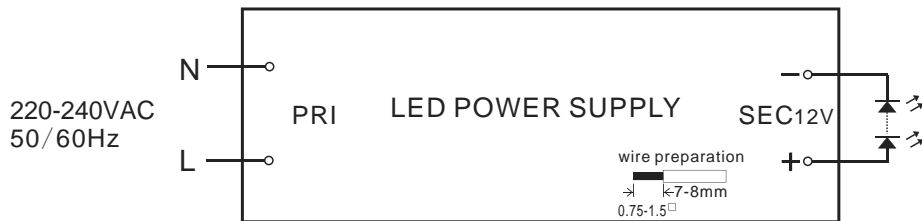
Specifications:

| Model | | SLT100-12VFG | SLT100-24VFG-UN | SLT100-48VFG-UN |
|------------------|---|--------------------------|---------------------------------------|---------------------------------------|
| Output | turn on time(S) | <0.5 | <0.5 | <0.5 |
| | output power(W) | 96 | 100W@230V 80W@120V | 100W@230V 80W@120V |
| | output voltage(V) | 12 | 24 | 48 |
| | output voltage tolerance ^① | +/-5% | +/-5% | +/-5% |
| | ripple voltage(mV) | 800(Vp-p) | 800(Vp-p) | 400(Vp-p) |
| | working current range(A) | 0-8.33A | 0-4.17@230V 0-3.33@120V | 0-2.08@230V 0-1.67@120V |
| | dimming interface | No | | |
| | dimming range | n/a | | |
| Input | rated supply voltage(Vac) | 220-240 | 120-240 | 120-240 |
| | voltage range(Vac) | 198-264 | 108-264 | 108-264 |
| | line frequency(Hz) | 50/60 | 50/60 | 50/60 |
| | input current(mA) | 600 | 600@230V,800@120V | 600@230V,800@120V |
| | efficiency ^② | 91.5% | 92.3% | 92.3% |
| | average efficiency ^③ | 89% | 90% | 90% |
| | no load power consumption(W) | <0.3 | <0.3 | <0.5 |
| | power factor ^② | 0.95 | 0.95 | 0.95 |
| | inrush current(Ipk) | 35.8A/92.5uS | 38.2A/92.5uS | 37A/92.5uS |
| Protection | over voltage protection | YES | YES | YES |
| | short circuit protection | YES | YES | YES |
| | over temperature protection | YES | YES | YES |
| | over load protection | YES | YES | YES |
| | automatic restart | Yes, except | Yes, except | Yes, except |
| | surge capacity | OTPL-N:1kV | L-N:1kV | L-N:1kV |
| Ambient and Life | Ta(°C) | -20...45 | -20...45 | -20...45 |
| | Tc max.(°C) | 90 | 90 | 90 |
| | Storage Temperature(°C) | -30...80 | | |
| | ambient humidity range | 5%...85%, Not condensing | | |
| | nominal life-time(hrs) | 50000@Tc=85 C | 50000@Tc=90 C | 50000@Tc=90 C |
| Other | weight(g) | 216 | 216 | 216 |
| | dimensions (LxWxH)(mm) | 298x29.8x16.5 | | |
| | casing material | Plastic | | |
| | housing colour | Grey+Blue | | |
| | type of protection | IP20 | | |
| | protection class | Class II | Class II for EU;Class2 output for USA | Class II for EU;Class2 output for USA |
| 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> | | | |

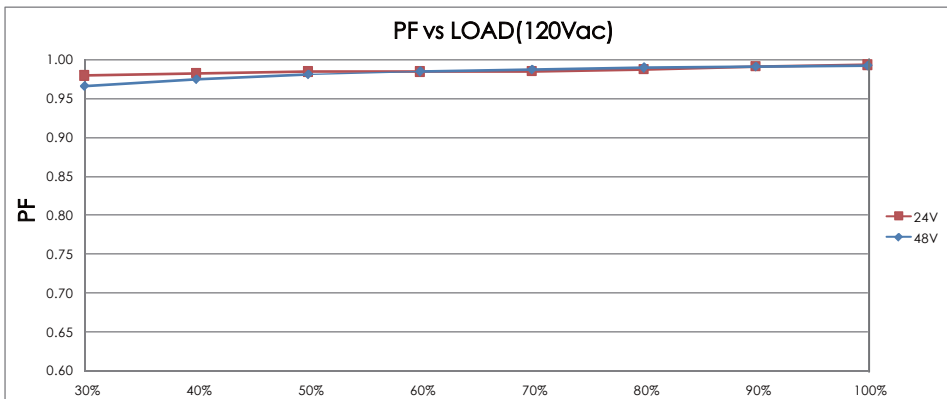
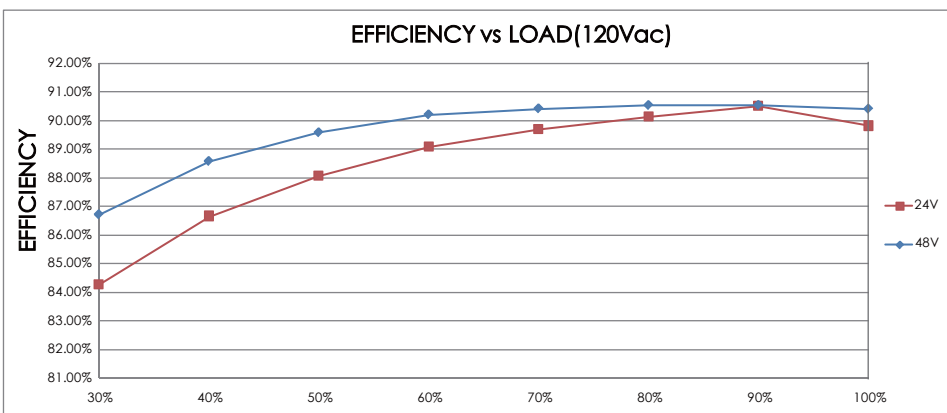
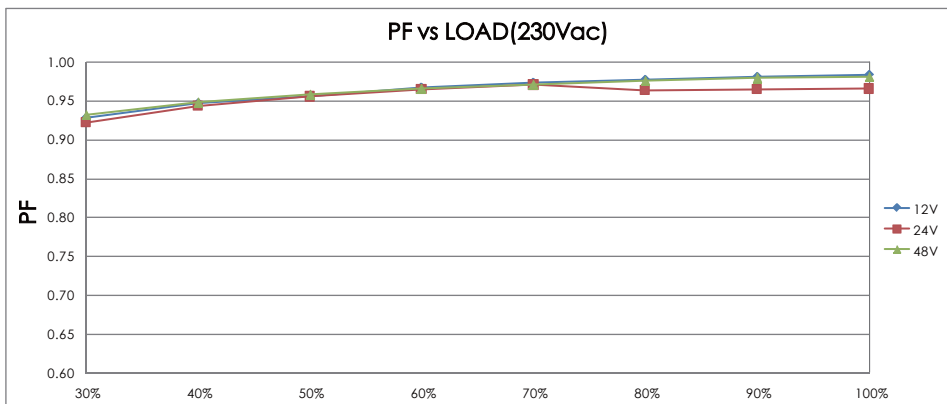
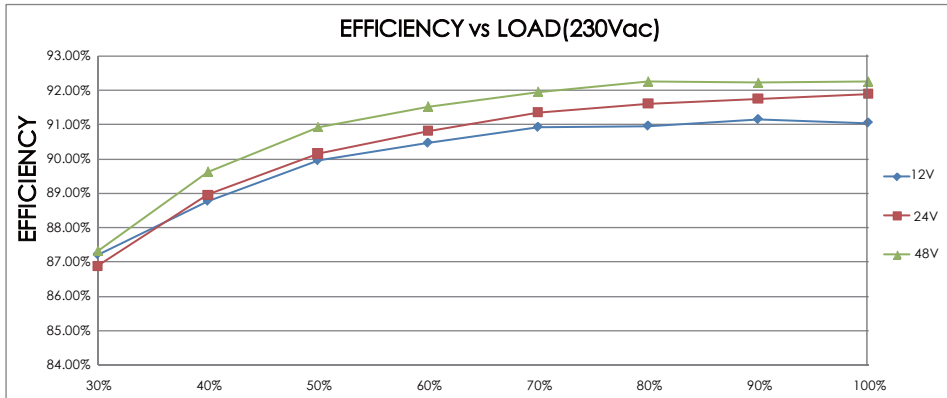
Dimensions(mm):



Wiring diagram:



Electrical curves:



Sales & Technical Support:



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*Due to continuous improvements and innovations, specifications are subjected to change without notice.