



# Constant Voltage LED Power Supply

## FCV Ultrathin Series

SLT150-24VFG-UN

SLT150-48VFG-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 (24V/48V) 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.



### Standards:

EN61347-1  
EN61347-2-13  
EN61547  
EN55015  
EN61000-3-2  
EN61000-3-3  
EN62384  
EN62493  
UL8750  
UL874  
FCC15 classA

### Characteristics:

- Independent power supply for constant voltage LED lamp
- Universal input with loop-in and out function
- Class II protection against electric shock from direct and indirect contact
- Ultrathin design only 22mm on height
- Start-up time  $\leq 0.5s$
- No load power consumption  $\leq 0.5W$
- Meet L-N 2KV surge immunity level
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after removal of fault conditions
- Class I and II lamp application
- ECO design, comply with ERP directives
- Warranty : 5 Years

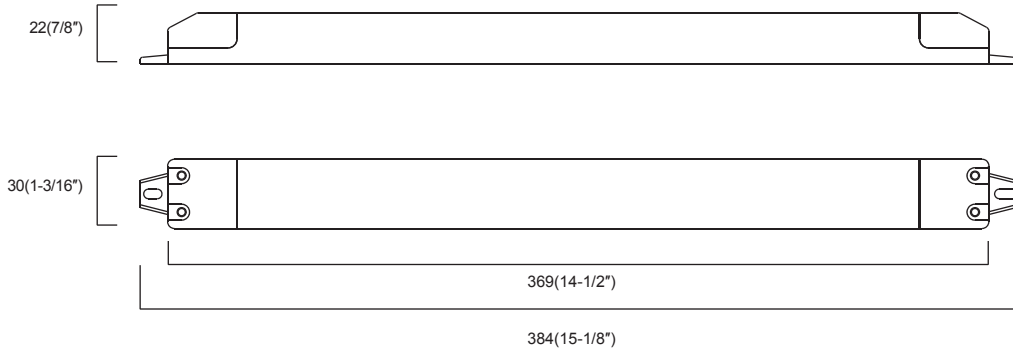


## Specifications:

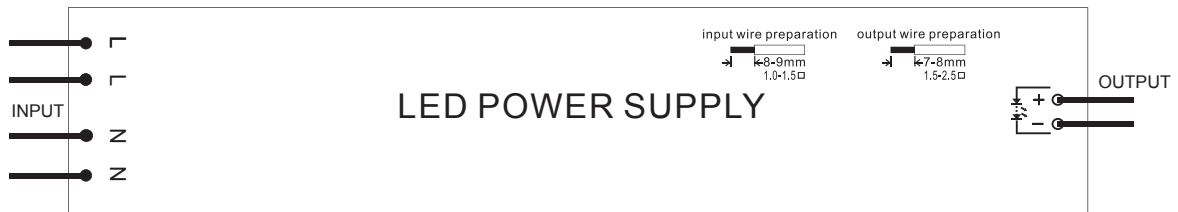
| Model            |   | SLT150-24VFG-UN                   | SLT150-48VFG-UN                   |
|------------------|---|-----------------------------------|-----------------------------------|
| Output           | turn on time(S)   | <0.5                              | <0.5                              |
|                  | output power(W)   | 0-150W                            | 0-150W                            |
|                  | output votage(V)  | 24                                | 48                                |
|                  | output voltage tolerance <sup>1</sup>   | ≤±3%                              | ≤±3%                              |
|                  | ripple voltage(mV)  | 400(Vp-p)                         | 600(Vp-p)                         |
|                  | working current range(A)  | 0-6.25                            | 0-3.13                            |
|                  | dimming interface   | No                                | No                                |
|                  | dimming range   | n/a                               | n/a                               |
| Input            | rated DC supply voltage(Vdc)  | 176-280Vdc                        | 176-280Vdc                        |
|                  | rated supply voltage(Vac)   | 120/220-240                       | 120/220-240                       |
|                  | voltage range(Vac)  | 108-132/198-264                   | 108-132/198-264                   |
|                  | line frequency(Hz)  | 0/50/60                           | 0/50/60                           |
|                  | input current(A)  | 1.6@120V; 1.4@230V                | 1.6@120V; 1.4@230V                |
|                  | efficiency <sup>2</sup>   | ≥92%/≥94%                         | ≥92%/≥94%                         |
|                  | average efficiency <sup>3</sup>   | ≥90%/≥92%                         | ≥90%/≥92%                         |
|                  | no load power consumption(W)  | ≤0.5                              | ≤0.5                              |
|                  | power factor <sup>2</sup>   | 0.95                              | 0.95                              |
|                  | inrush current(Ipk)   | 130A/10uS                         | 130A/10uS                         |
| Protection       | short circuit protection  | YES                               | YES                               |
|                  | over temperature protection   | latch 3                           | atch 3                            |
|                  | over load protection  | YES                               | YES                               |
|                  | automatic restart   | YES, Except OTP                   | YES, Except OTP                   |
|                  | surge capacity  | L-N:2kV                           | L-N:2kV                           |
| Ambient and Life | Ta(°C)  | -20...45                          | -20...45                          |
|                  | 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)   | 400                               | 400                               |
|                  | dimensions (L×W×H)(mm)  | 369×30×22                         | 369×30×22                         |
|                  | casing material   | Plastic                           | Plastic                           |
|                  | housing colour  | Grey+Blue                         | Grey+Blue                         |
|                  | type of protection  | IP20                              | IP20                              |
|                  | protection class  | Class II for EU/non-class2 for US | Class II for EU/non-class2 for US |
| Note             | <p>1. Tolerance:includes set up tolerance, line regulation and load regulation.<br/>                 2. Tested at full load,230Vac.Refer to"Power Factor" and "EFFICIENT"curve graphs.<br/>                 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.<br/>                 4. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature.<br/>                 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





## MCBS information:

| Miniature circuit breaker Model | B10 | B13 | B16 | B20 | C10 | C13 | C16 | C20 |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| SLT150-24VFG-UN                 | 4   | 5   | 7   | 8   | 7   | 8   | 12  | 14  |
| SLT150-48VFG-UN                 | 4   | 5   | 7   | 8   | 7   | 8   | 12  | 14  |