# Constant Voltage LED Power Supply
# FCV Ultrathin Series

## SLT200-24VFG-UN
## SLT200-48VFG-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
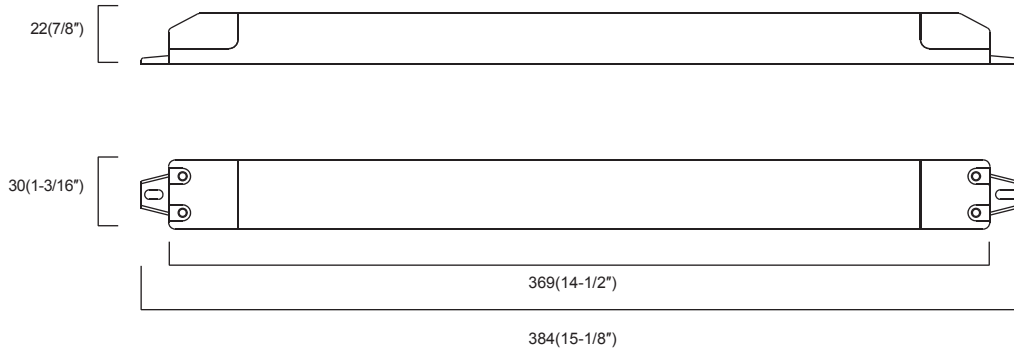EN62384
EN62493
UL8750
UL874
FCC15 classA

## 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
• Ultraslim design only 22mm on height
• Start-up time ≤0.5s
• No load power consumption≤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
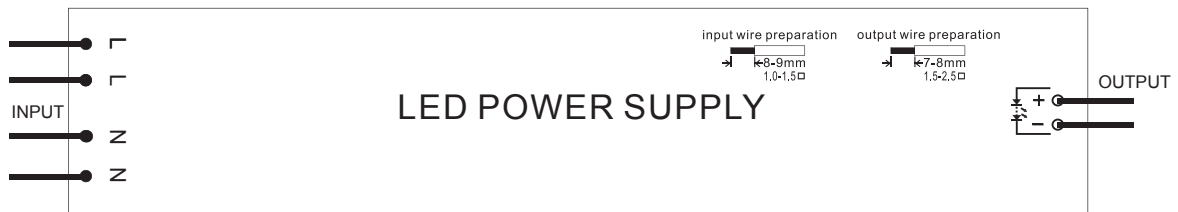• Warranty : 5 Years

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# Specifications:

| Model | | SLT200-24VFG-UN | SLT200-48VFG-UN |
|---|---|---|---|
| Output | turn on time(S) | <0.5 | <0.5 |
| | output power(W) | 0-150W@120V/0-200W@220-240V | 0-150W@120V/0-200W@220-240V |
| | output votage(V) | 24 | 48 |
| | output voltage tolerance ❶ | ≤±3% | ≤±3% |
| | ripple voltage(mV) | 400(Vp-p) | 600(Vp-p) |
| | working current range(A) | 0-6.25@120V 0-8.33@220-240V | 0-3.13A@120V 0-4.16A@220-240V |
| | 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) | 1.4A@120V/1A@230V | 1.4A@120V/1A@230V |
| | efficiency ❷ | ≥92%/≥94% | ≥92%/≥94% |
| | average efficiency ❸ | ≥90%/≥92% | ≥90%/≥92% |
| | no load power consumption(W) | ≤0.5 | ≤0.5 |
| | power factor ❷ | 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(℃) | -20…45 | -20…45 |
| | Tc max.(℃) | 90 | 90 |
| | Storage Temperature(℃) | -30...80 | -30...80 |
| | ambient humidity range | 5%...85%, Not condensing | 5%...85%, Not condensing |
| | nominal life-time(hrs) | 50000@Tc=90℃ | 50000@Tc=90℃ |
| 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**
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.
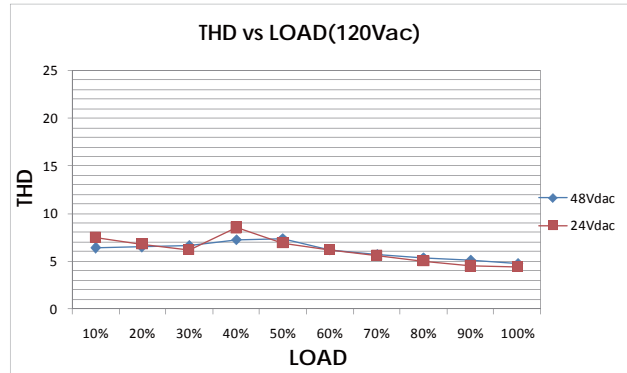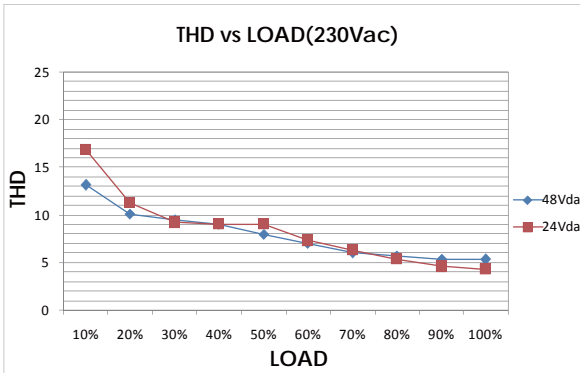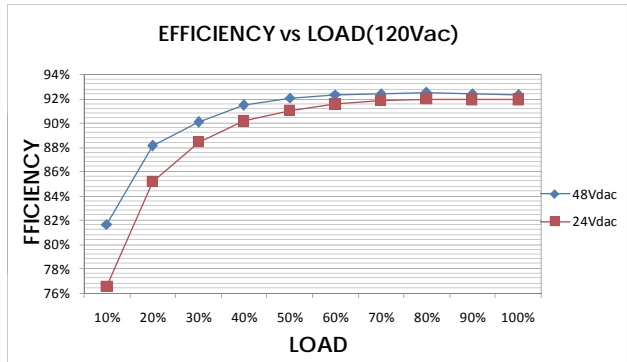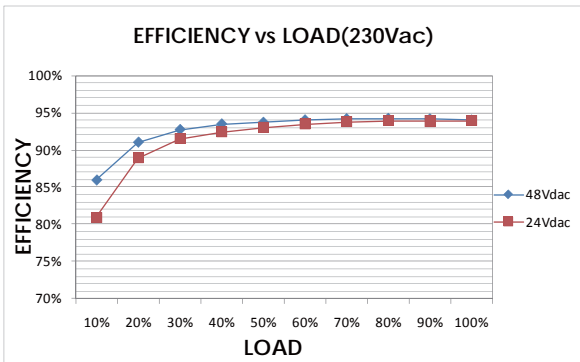
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## Dimensions(mm):

22(7/8")

30(1-3/16")

369(14-1/2")

384(15-1/8")

## Wiring Diagram

INPUT

L
L
N
N

input wire preparation
←8-9mm
1.0-1.5□

output wire preparation
←7-8mm
1.5-2.5□

LED POWER SUPPLY

+
−
OUTPUT

SAF

## Electrical curves:



PF vs LOAD(230Vac)



PF vs LOAD(120Vac)



EFFICIENCY vs LOAD(230Vac)



EFFICIENCY vs LOAD(120Vac)



THD vs LOAD(230Vac)



THD vs LOAD(120Vac)
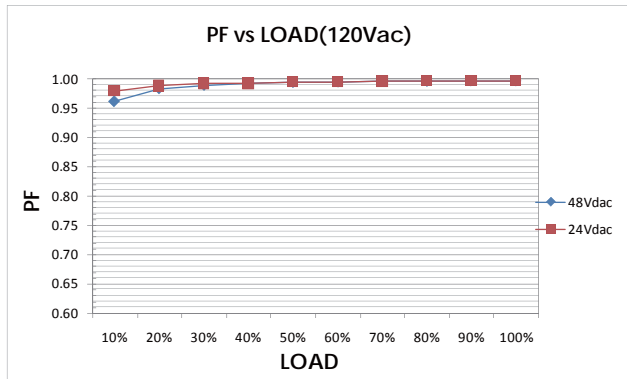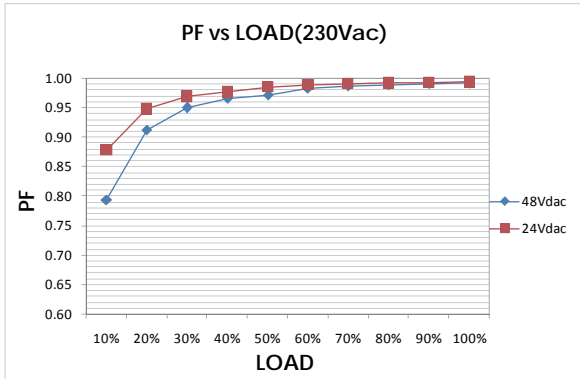
## MCBS information:

| Miniature circuit breaker Model / Model | B10 | B13 | B16 | B20 | C10 | C13 | C16 | C20 |
|---|---|---|---|---|---|---|---|---|
| SLT200-24VFG-UN | 4 | 5 | 7 | 8 | 7 | 8 | 12 | 14 |
| SLT200-48VFG-UN | 4 | 5 | 7 | 8 | 7 | 8 | 12 | 14 |

## Order information:

| Order.No. | Model | Carton quantity(pcs) | Carton dimension(mm) | G.W./CTN(kg) |
|---|---|---|---|---|
| 1001-910072-0133 | SLT200-24VFG-UN | 30 | 430x245x200 | 12.7 |
| 1001-910074-0131 | SLT200-48VFG-UN | 30 | 430x245x200 | 12.7 |

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