

# 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

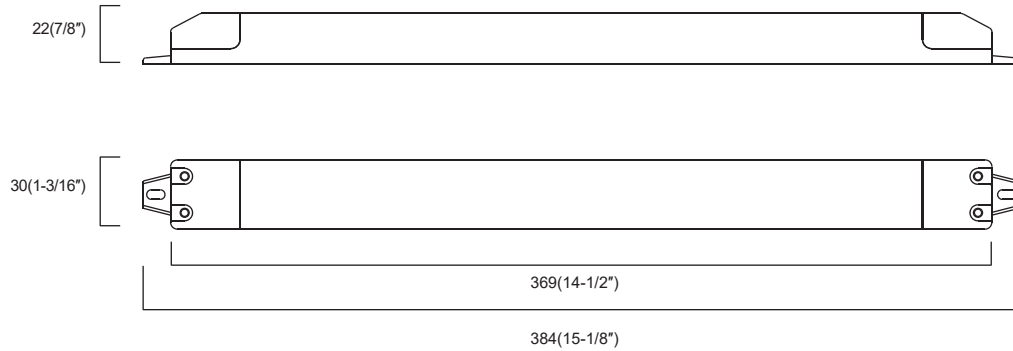
## Characteristics:

- 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  $\leq 0.5s$
- 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

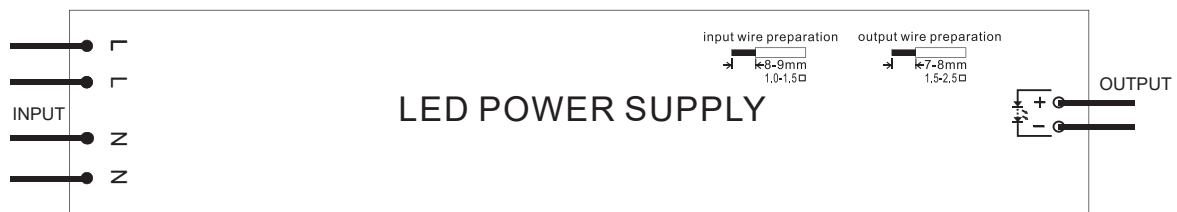
## Specifications:

| Model            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 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 voltage(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@120V<br>0-8.33@220-240V    | 0-3.13A@120V<br>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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.6@120V/1.2@230V                 | 1.6@120V/1.2@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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | YES                               | YES                               |
|                  | 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 (LxWxH)(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.<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. |                                   |                                   |

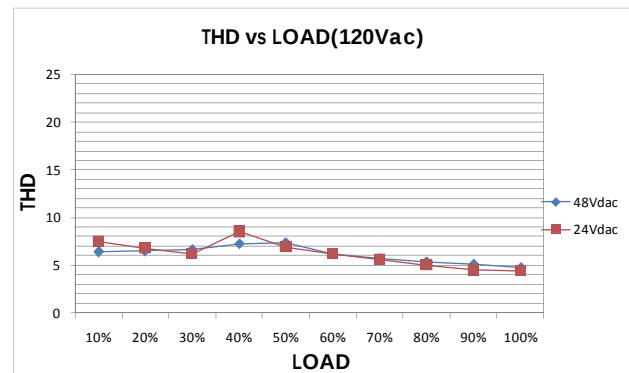
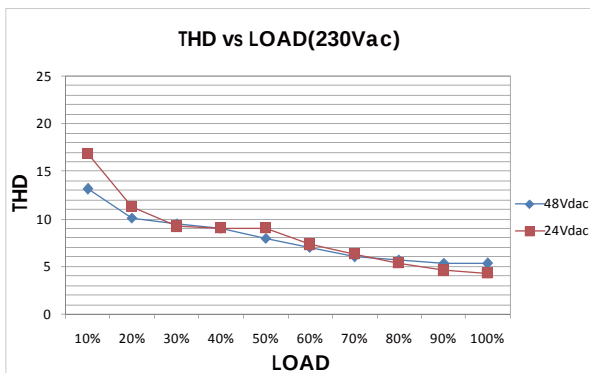
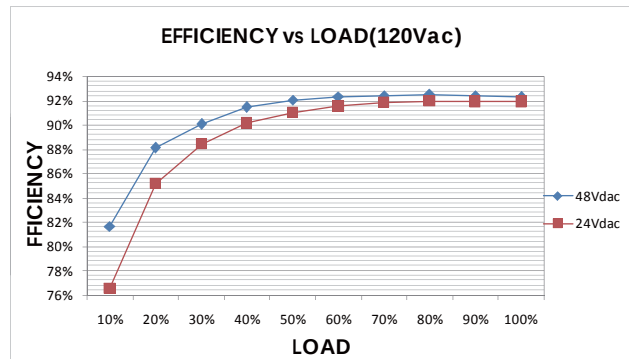
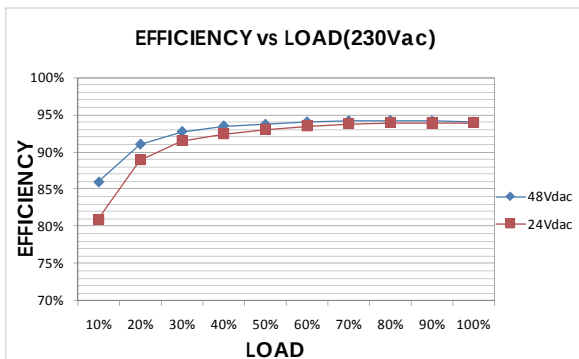
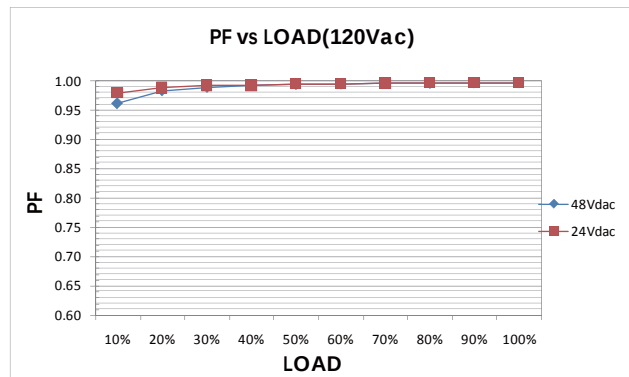
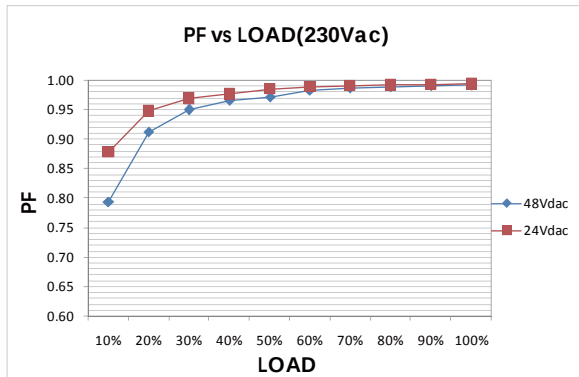
## Dimensions(mm):



## Wiring Diagram



## Electrical curves:



## Sales & Technical Support:

**Bright Green Connect Limited**

Unit 3, Oyster Park  
Byfleet  
Surrey  
KT14 7AX

☎ +44 (0) 1932 497992

✉ [contact@brightgreenconnect.com](mailto:contact@brightgreenconnect.com)

🌐 [brightgreenconnect.com](http://brightgreenconnect.com)

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