

# 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

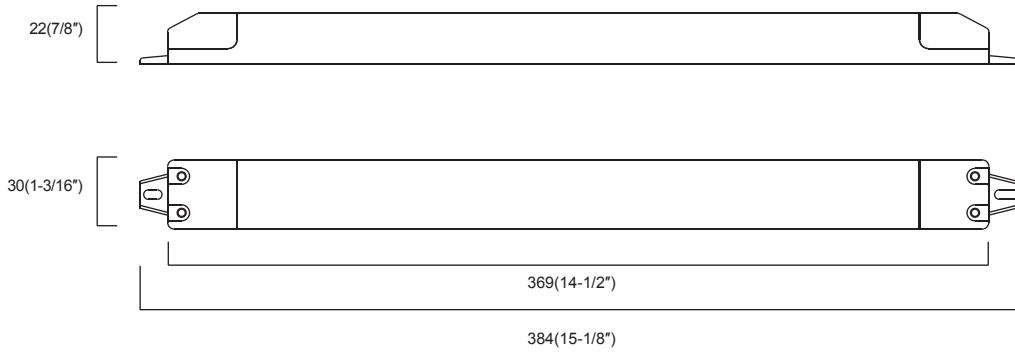
### Characteristics:

- 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
- 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

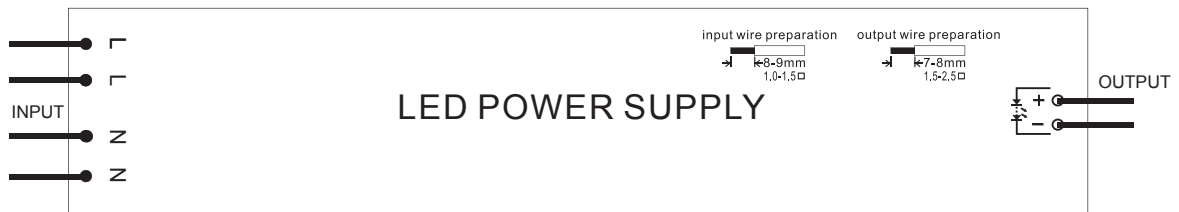
## Specifications:

Model	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 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)	1.6@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	<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>		

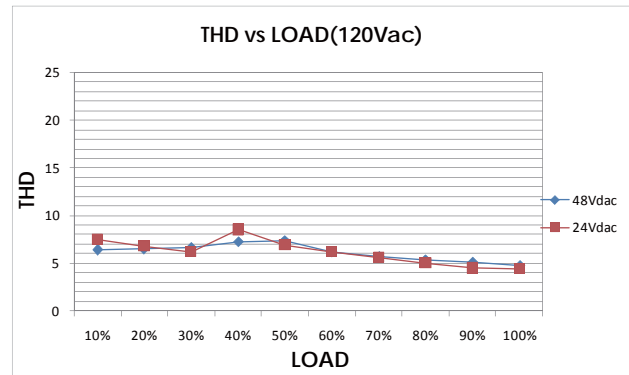
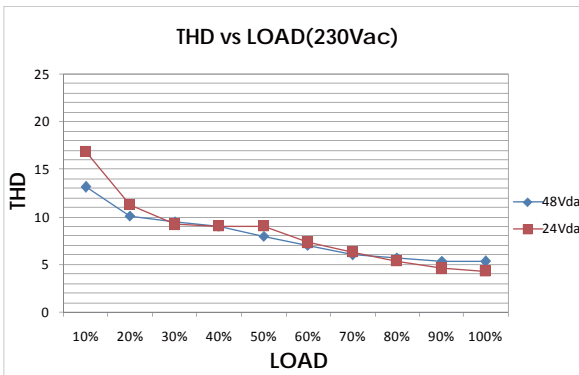
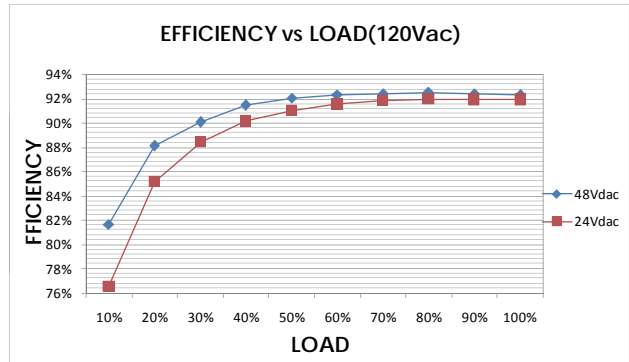
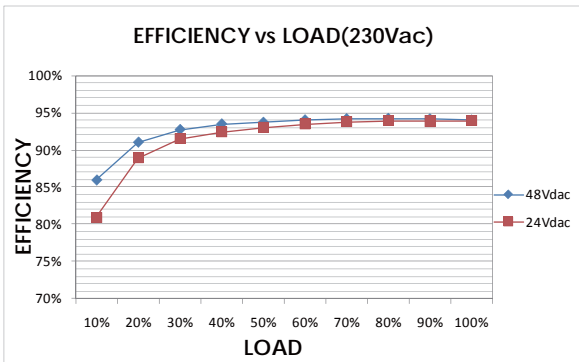
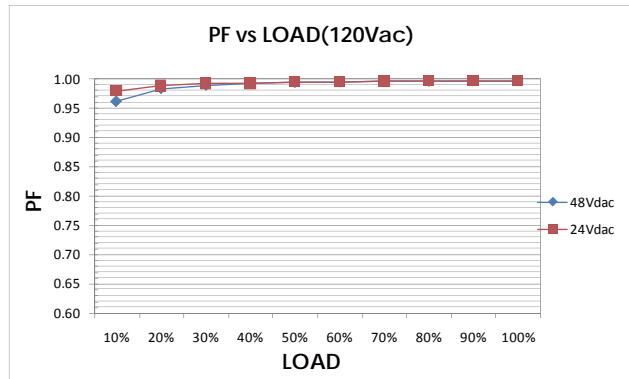
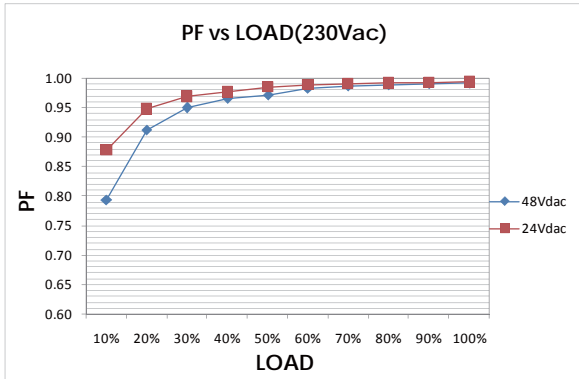
## Dimensions(mm):



## Wiring Diagram



Electrical curves:



**Sales & Technical Support:**

via Adige 30 - 20010  
Pregnana Milanese  
Milan - Italy  
Phone: +39 02 94324 511  
Fax: +39 02 92893130  
E-mail: [info@universal-science.eu](mailto:info@universal-science.eu)  
Website: [www.universal-science.it](http://www.universal-science.it)



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