

# Constant Voltage LED Power Supply

SLT75-12VFG

SLT75-24VFG



## 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 (12/24V DC) connected in parallel. 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

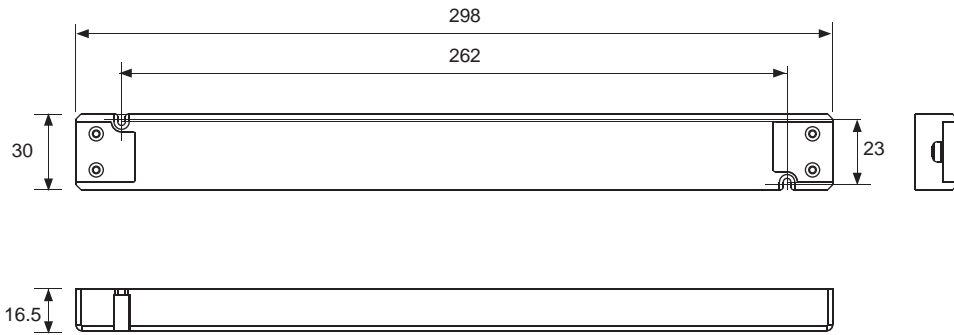
## Characteristics:

- Independent power supply for constant voltage LED lamp  
Terminal block for quick connection
- Class II protection against electric shock from direct and indirect contact
- SELV output (<60V)
- Fast start-up time  $\leq 0.5s$
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after fault conditions removal
- Super thin design
- No load power consumption  $\leq 0.3W$
- Efficiency:  $\geq 90\%$  (AC230V, full load)

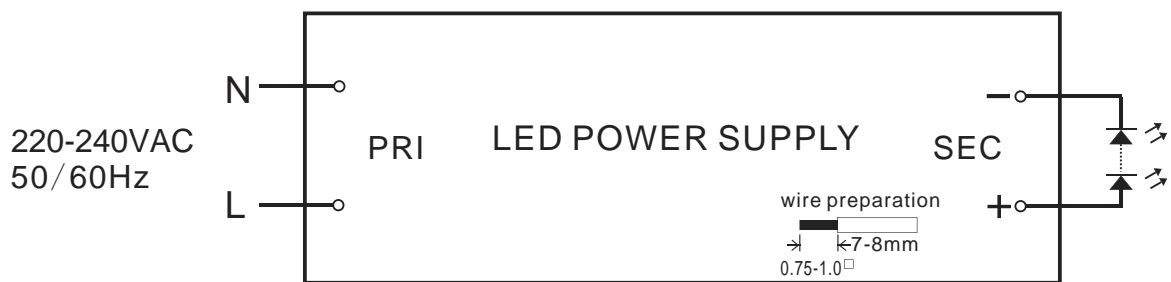
## Specifications:

Model	SLT75-12VFG	SLT75-24VFG	
Output	turn on time(S)	<0.5	<0.5
	output power(W)	75	75
	output votage(V)	12	24
	output voltage tolerance <sup>1</sup>	+/-5%	+/-5%
	ripple voltage(mV)	500(Vp-p)	200(Vp-p)
	working current range(A)	0-6.25A	0-3.1A
	dimming interface	No	
	dimming range	n/a	
Input	rated supply voltage(Vac)	220-240	220-240
	voltage range(Vac)	198-264	198-264
	line frequency(Hz)	50/60	50/60
	input current(mA)	400	400
	efficiency <sup>2</sup>	91.5%	91.6%
	average efficiency <sup>3</sup>	90.66%	90.18%
	no load power consumption(W)	≤0.3	≤0.3
	power factor <sup>2</sup>	0.95	0.95
	inrush current(Ipk)	46A/180us	46A/180us
Protection	over voltage protection	YES	YES
	short circuit protection	YES	YES
	over temperature protection	YES	YES
	automatic restart	YES	YES
	over load protection	YES	YES
	surge capacity	L-N:1kV	L-N:1kV
Ambient and Life	Ta(°C)	-20...50	-20...50
	Tc max.(°C)	90	90
	Storage Temperature(°C)	-30...80	
	ambient humidity range	5%...85%, Not condensing	
	nominal life-time(hrs)	50000@Tc=85 C	
Other	weight(g)	162	162
	dimensions (L×W×H)(mm)	298×30×16.5	
	casing material	Plastic	
	housing colour	Grey+Blue	
	type of protection	IP20	
	protection class	Class2	
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 erage 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>		

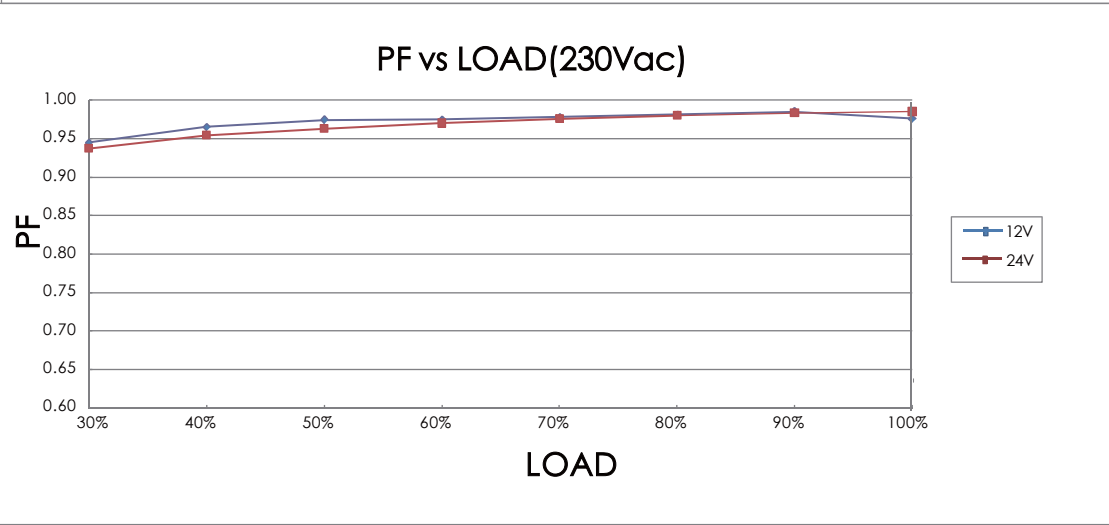
### Dimensions(mm):



### Wiring diagram:



Electrical curves:



note  
For constant current power supply,"LOAD" means the percentage of the maximum rated output voltage.  
For constant voltage power supply,"LOAD" means the percentage of the maximum rated output current.

## Sales & Technical Support:

### **Self Electronics Co.,Ltd.**

Add: No. 1345 Ju Xian Road, Ningbo Hi Tech Park, Ningbo, China

Tel: 0086-574-28805765,28805658(For English Assistance)

0086-574-28805678 (For Chinese Assistance)

Fax: 0086-574-28805656

E-mail: sales@self-ecg.com

<http://www.self-ecg.com>

### **Self Electronics Co.,Ltd.,Shenzhen Office**

Add: Room2007,Xinglang Xuan,Xinghe Mingju,Fuming Road,Futian District,Shenzhen

Tel: 0086-755-83558850, 83558851

Fax: 0086-755-83558840

### **SELF ELECTRONICS GERMANY GMBH**

Add:August-Horch-Str. 7,51149 Cologne

Tel: 0049 2203 18501-0

Fax: 0049 2203 18501-199

E-mail: saleseu@self-electronics.com

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