Constant Voltage LED Power Supply





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 (12/24VDC) 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 or over temperature. 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
- Class II protection against electric shock from direct and indirect contact
- Super thin
- SELV outputn
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after fault conditions removal
- No load power consumption≤0.3W
- Efficiency:84% (AC230V,full load)

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Specifications:

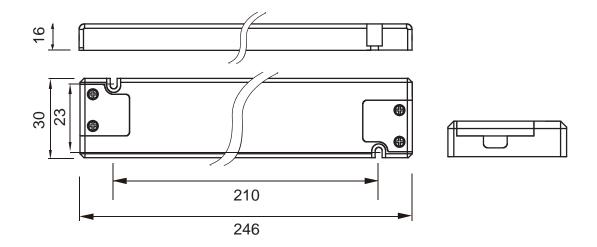
Model		SLT30-12VFG	SLT30-24VFG	
Output	turn on time(S)	≤0.5	≤0.5	
	output power(W)	30	30	
	output votage(V)	12	24	
	output voltage tolerance	+/-5%	+/-5%	
	ripple voltage(mV)	90(Vp-p)	100(Vp-p)	
	working current range(A)	0-2.5	0-1.25	
	dimming interface	No		
	dimming range	n/a		
Input	rated supply voltage(Vac)	220-240	220-240	
	voltage range(Vac)	198-264	198-264	
	line frequency(Hz)	50/60	50/60	
	input current(mA)	160	160	
	efficiency 2	83.5%	84.5%	
	average efficiency 6	79.5%	80.0%	
	no load power consumption(W)	≤0.5	≤0.5	
	power factor ²	0.95	0.95	
	inrush current(lpk)	18A/180us	18A/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: 500V	L-N: 500V	
Ambient and Life	Ta(℃)	-2040	-2040	
	Tc max.(℃)	85	85	
	Storage Temperature(C)	-30	-3080	
	ambient humidity range	5%85%, Not condensing		
	nominal life-time(hrs)	35'000@Tc=85°C		
Other -	weight(g)	135	125	
	dimensions (L×W×H)(mm)	246x30x16		
	casing material	Plastic		
	housing colour	White+Blue		
	type of protection	IP20		
	protection class	Class2		
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 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.			

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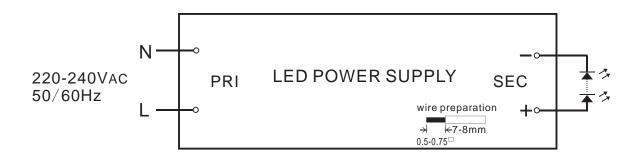
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Dimensions(mm):



Wiring diagram:

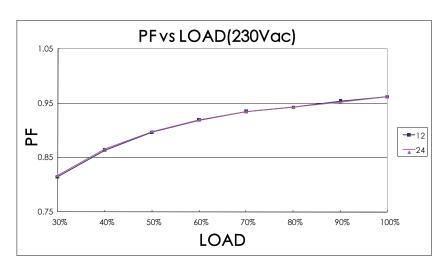


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Electrical curves:





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.

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

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