

# 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 (12V, 24V) connected in series.

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

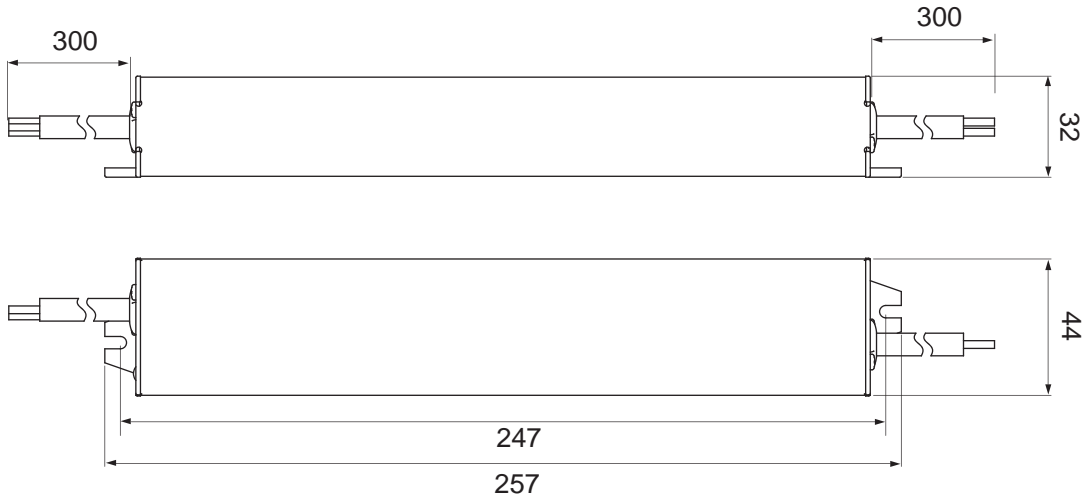
## Characteristics:

- Independent power supply for constant voltage LED lamp  
IP64 design for waterproofing application
- Class I protection against electric shock from direct and indirect contact
- SELV output (<60V)
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after fault conditions removal
- Meet L-N 1kV and L-PE/N-PE 2kV surge immunity level
- Efficiency: 89% (AC230V, full load)

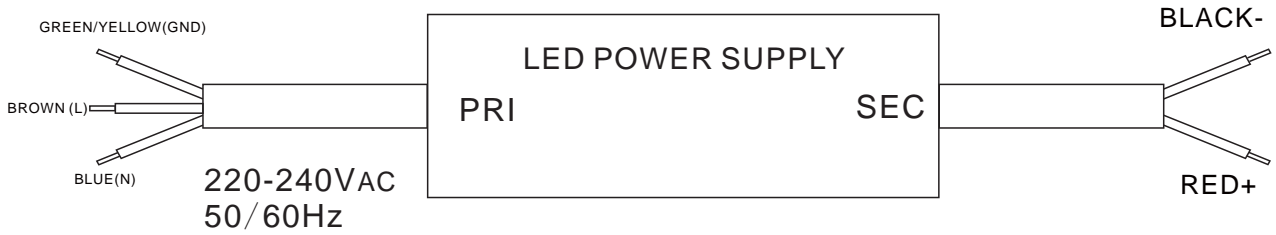
## Specifications:

Model	SLT100-12VC-E	SLT100-24VC-E	
Output	turn on time(S)	≤0.5	≤0.5
	output power(W)	100	100
	output voltage(V)	12	24
	output voltage tolerance <sup>1</sup>	+/-5%	+/-5%
	ripple voltage(mV)	40(Vp-p)	40(Vp-p)
	working current range(A)	0-8.3	0-4.2
	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)	500	500
	efficiency <sup>2</sup>	87.0%	89.0%
	average efficiency <sup>3</sup>	86.0%	87.0%
	no load power consumption(W)	≤0.3	≤0.3
	power factor <sup>2</sup>	0.95	0.95
Protection	inrush current(Ipk)	40A/150uS	40A/150uS
	over voltage protection	YES	YES
	short circuit protection	YES	YES
	over temperature protection	YES	YES
	automatic restart	YES	YES
	over load protection	YES	YES
Ambient and Life	surge capacity	L-N: 1KV L,N-PE: 2KV	L-N: 1KV L,N-PE: 2KV
	Ta(°C)	-20...50	-20...50
	Tc max.(°C)	80	80
	Storage Temperature(°C)	-30...80	
	ambient humidity range	5%...85%RH, Not condensing	
Other	nominal life-time(hrs)	50'000@Tc=65 C	
	weight(g)	700	
	dimensions (L×W×H)(mm)	257×44×32	
	casing material	metal	
	housing colour	Silver	
	type of protection	IP64	
Note	protection class	ClassI	
	<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>		

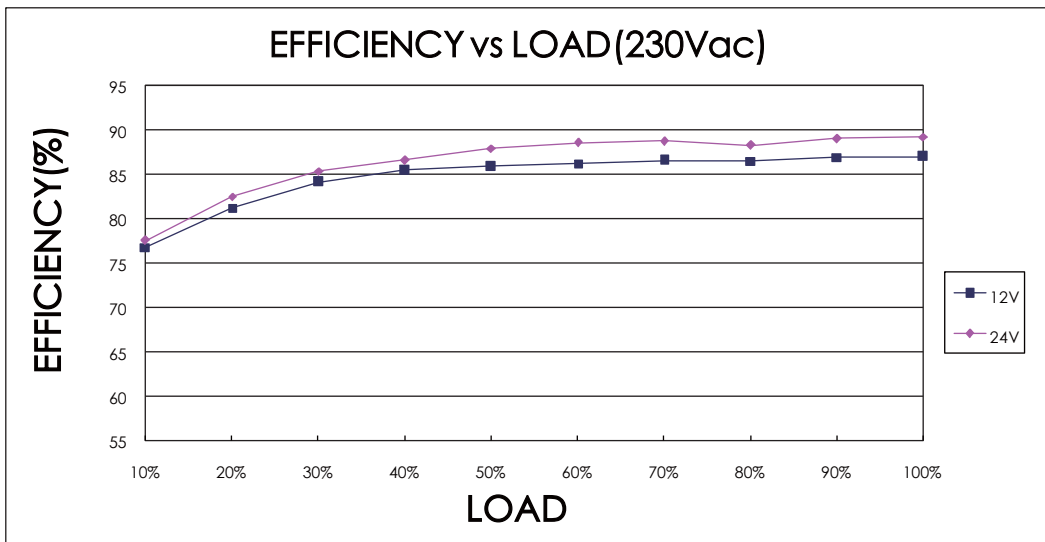
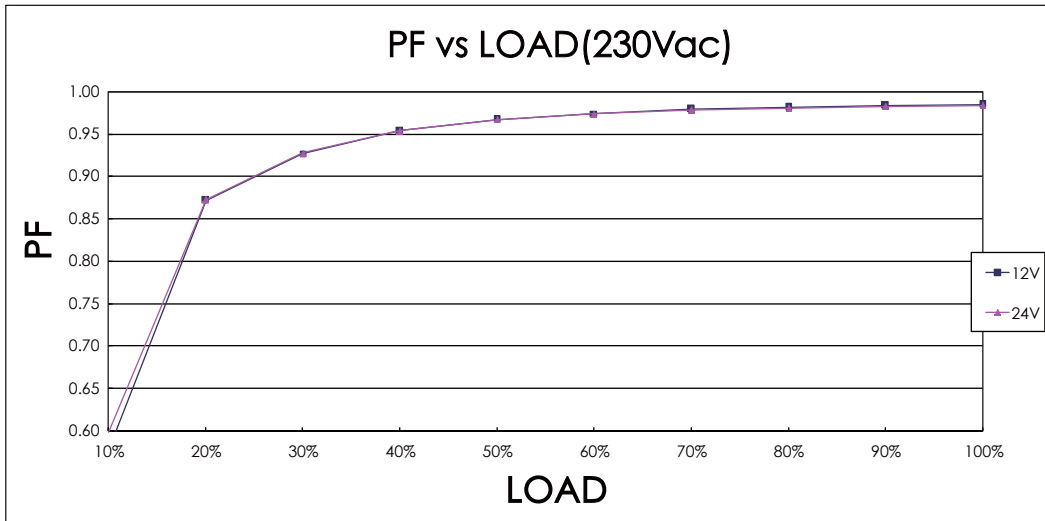
### Dimensions(mm):



### 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.

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