

# Constant Voltage LED Power Supply

SLT96-12VLC-UN  
SLT96-24VLC-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 (12/24VDC) 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 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  
EN60335-1  
UL 8750  
UL1310  
FCC15B

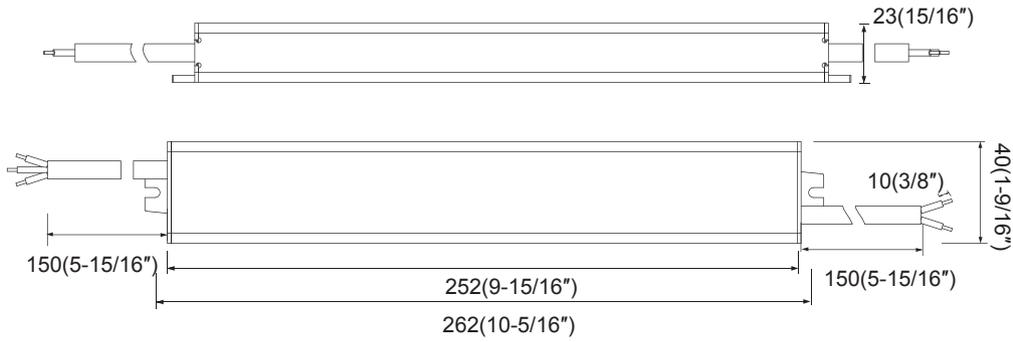
## Characteristics:

- Independent power supply for constant voltage LED lamp
- Metal case with protection ground
- Universal input voltage from 100-277V
- IP67 design for indoor and outdoor application
- Meet L-N 2kV and L-PE/N-PE 4kV surge immunity level
- Nominal life-time up to 100,000 h@Tc=75
- Open circuit, over load and over temperature protection
- Auto restart after fault conditions removal
- Warranty:5 years
- Comply with EN60335 can be used in commercial freezer and refrigerator

## Specifications:

Model	SLT96-12VLC-UN	SLT96-24VLC-UN	
Output	turn on time(S)	≤ 0.5	≤ 0.5
	output power(W)	96	96
	output voltage(V)	12	24
	output voltage tolerance <sup>1</sup>	+/-5%	+/-5%
	ripple voltage(mV)	500 (Vp-p)	500 (Vp-p)
	working current range(A)	0-8	0-4
	dimming interface	No	
	dimming range	n/a	
Input	rated supply voltage(Vac)	100-277	100-277
	voltage range(Vac)	90-305	90-305
	line frequency(Hz)	50/60	50/60
	input current(mA) <sup>2</sup>	900	900
	efficiency <sup>3</sup>	92.0%	92.5%
	average efficiency <sup>3</sup>	88.0%	89.0%
	no load power consumption(W)	0.3	0.3
	power factor <sup>2</sup>	0.95	0.95
	inrush current(Ipk)	75A/200us	75A/200us
Protection	over voltage protection	320Vac, 1 hours.	
	short circuit protection	Yes	
	over temperature protection	Yes	
	automatic restart	Yes	
	over load protection	Yes	
	surge capacity	L-N: 2KV L,N-PE: 4KV	
Ambient and Life	Ta(°C)	-40...60	
	Tc max.(°C)	90	85
	Storage Temperature(°C)	-40...80	
	ambient humidity range	5%...85%RH, Not condensing	
	audible noise(dB)	≤25 @20cm	
	nominal life-time(hrs)	100'000@Tc=75 C	
Other	weight(g)	500	
	dimensions (LxWxH)(mm)	262x40x23	
	casing material	Metal	
	housing colour	Silver	
	type of protection	IP67	
	protection class	Class I	
Note	<p>1. Tolerance:includes set up tolerance, line regulation and load regulation.  2. Tested at full load,230Vac(Input current tested at full load,120Vac).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>		

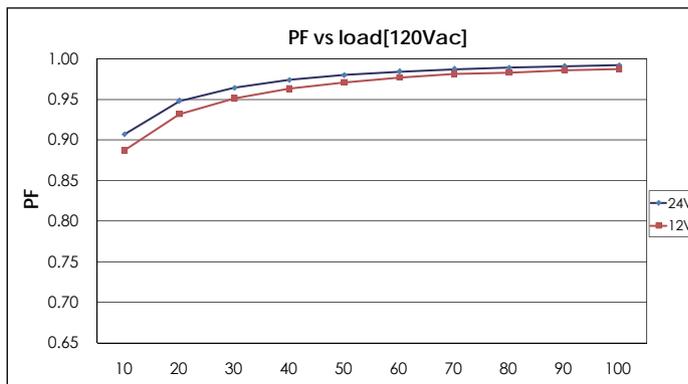
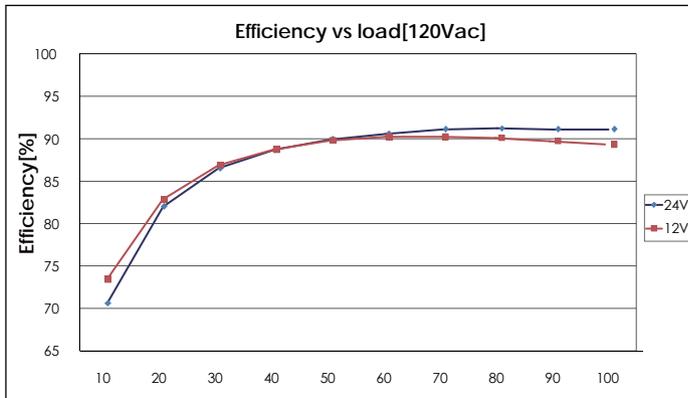
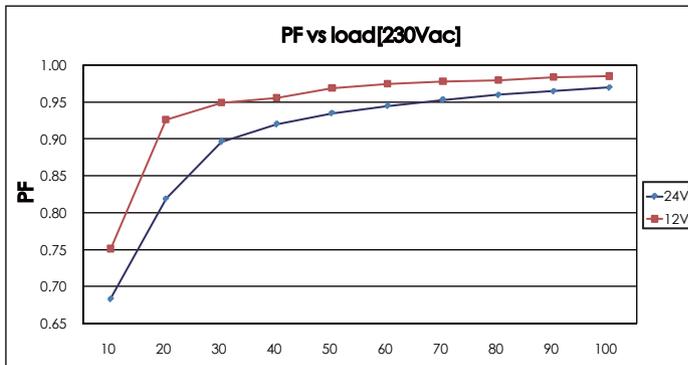
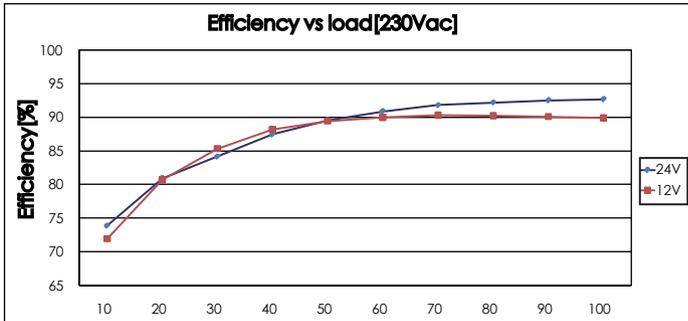
### Dimensions: mm



### 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.



## MCBS information:

Miniature circuit breaker Model Model	B10	B13	B16	B20	C10	C13	C16	C20
SLT96-12VLC-UN	5	7	9	11	9	11	15	18
SLT96-24VLC-UN	5	7	9	11	9	11	15	18

## Order information:

Order.No.	Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
1001-810002-0130	SLT96-12VLC-UN	30	540x420x255	12.2
1001-810001-0130	SLT96-24VLC-UN	40	300x220x270	12.2

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