

# Constant Voltage LED Power Supply

SLT75-24VL-2



## 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. The built-in protection circuit will shut down the power supply in case of such faults as: short circuit, over load or over temperature. The power supply will restart automatically after fault correction.



## Standards:

EN61347-1	UL8750
EN61347-2-13	UL1310
EN61547	FCC 15A
EN55015	
EN61000-3-2	
EN61000-3-3	
EN62384	
EN62493	

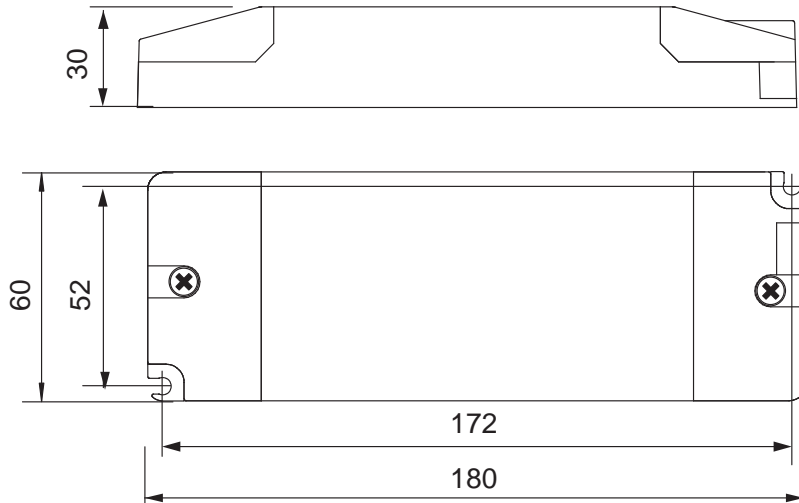
## Characteristics:

- Independent power supply for constant voltage LED lamp
- Terminal block input, terminal block and 5.5mm DC power jack output
- Class II protection against electric shock from direct and indirect contact
- SELV output
- Open circuit, short circuit, over load and over temperature protection
- Auto restart after fault conditions removal
- No load power consumption  $\leq 0.3W$   
Efficiency: 88% (AC230V, full load)

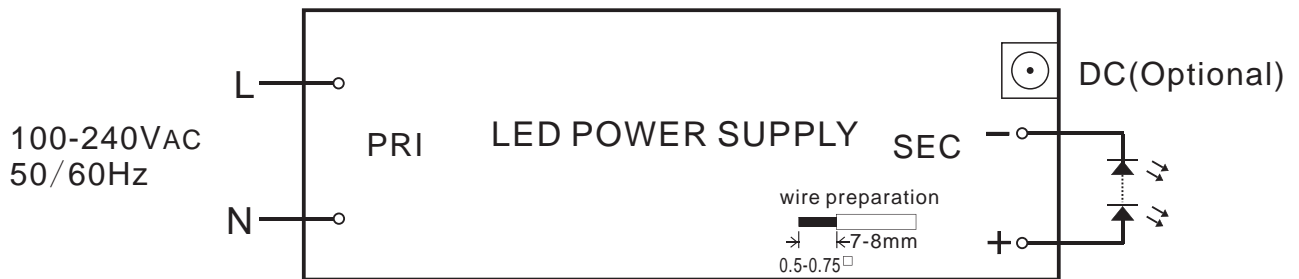
## Specifications:

Model		SLT75-24VL-2			
Output	turn on time(S)	≤0.6			
	output power(W)	75			
	output voltage(V)	23-25			
	output voltage tolerance <sup>1</sup>	+/-5%			
	ripple voltage(mV)	135(Vp-p)			
	working current range(A)	0-3.1			
	dimming interface	No			
	dimming range	n/a			
Input	rated supply voltage(Vac)	100-240			
	voltage range(Vac)	90-264			
	line frequency(Hz)	50/60			
	input current(mA) <sup>2</sup>	900			
	efficiency <sup>3</sup>	89.2%			
	average efficiency <sup>4</sup>	86.1%			
	no load power consumption(W)	≤0.6			
	power factor <sup>3</sup>	0.95			
Protection	inrush current(Ipk)	85A/120us			
	over voltage protection	YES			
	short circuit protection	YES			
	over temperature protection	YES			
	automatic restart	YES			
	over load protection	YES			
Ambient and Life	surge capacity	L-N: 1KV			
	Ta(°C)	-20...50			
	Tc max.(°C)	80			
	Storage Temperature(°C)	-30...80			
	ambient humidity range	5%...85%, Not condensing			
Other	nominal life-time(hrs)	50'000@Tc=75 C	50'000@Tc=65 C	50'000@Tc=70 C	
	weight(g)	330		331	332
	dimensions (LxWxH)(mm)	180x60x30			
	casing material	Plastic			
	housing colour	White			
	type of protection	IP20			
protection class	ClassII				
Note	1. Tolerance:includes set up tolerance, line regulation and load regulation. 2. Tested at 100Vac input. 3. Tested at full load.Refer to ""Power Factor"" and ""EFFICIENT""curve graphs. 4. 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. 5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature. 6. 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.				

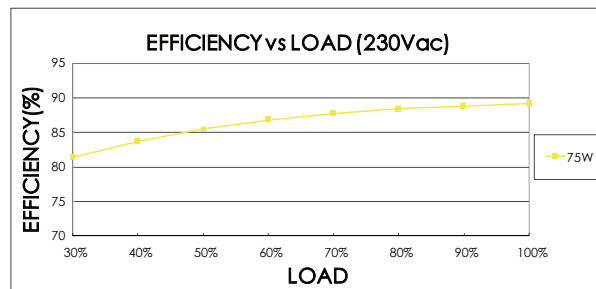
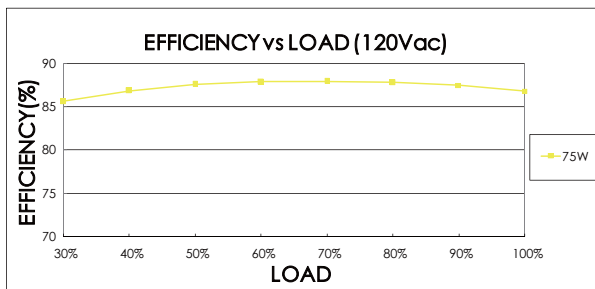
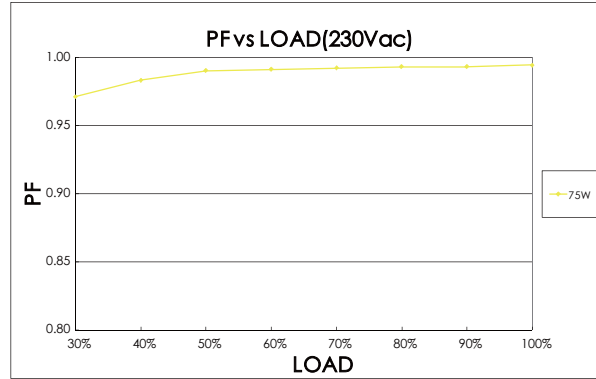
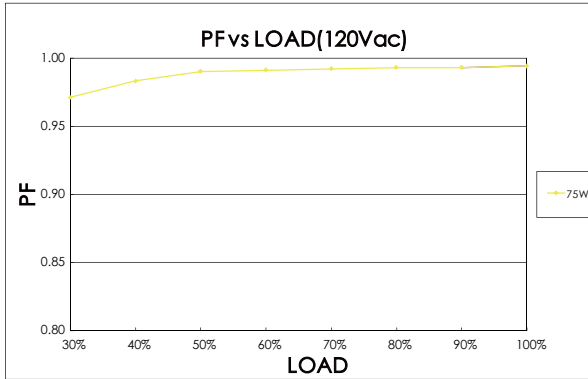
Dimensions(mm):



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	B10	B13	B16	B20	C10	C13	C16	C20
SLT75-24VL-2	8	11	14	17	14	17	21	24

### Order information:

Model	Carton	quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
SLT75-24VL-2		30	340x210x235	11

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