

# Constant Voltage LED Power Supply

SLT75-24VL-E



## 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 (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  
EN61347-2-13  
EN61547  
EN55015  
EN61000-3-2  
EN61000-3-3  
EN62384  
EN62493

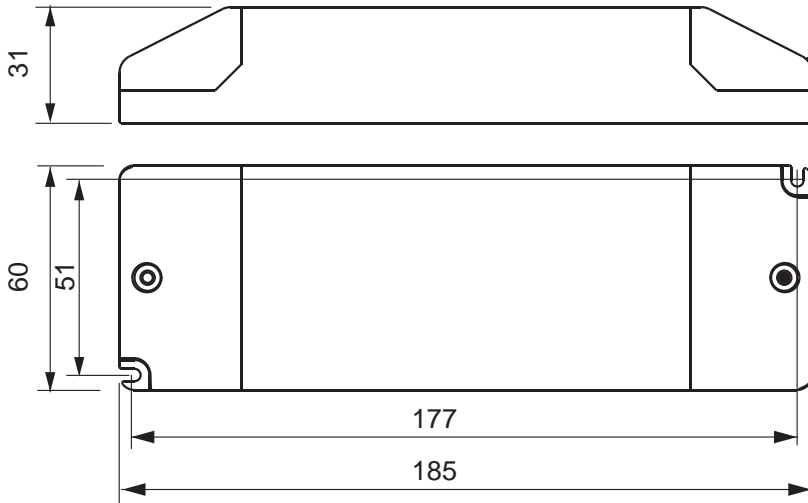
## Characteristics:

- 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  $\leq 0.6W$   
Efficiency: 87.7% (AC230V, full load)

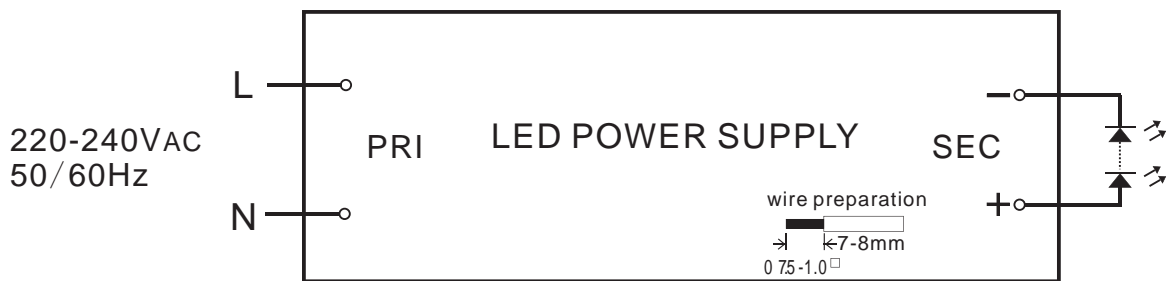
## Specifications:

Model	SLT75-24VL-E	
Output	turn on time(S)	≤0.5
	output power(W)	75
	output voltage(V)	24
	output voltage tolerance <sup>1</sup>	+/-5%
	ripple voltage(mV)	800(Vp-p)
	working current range(A)	0-3.1
	dimming interface	No
	dimming range	n/a
Input	rated supply voltage(Vac)	220-240
	voltage range(Vac)	198-264
	line frequency(Hz)	50/60
	input current(mA)	390
	efficiency <sup>2</sup>	87.7%
	average efficiency <sup>3</sup>	85.3%
	no load power consumption(W)	≤0.6
	power factor <sup>2</sup>	0.95
	inrush current(Ipk)	35A/250us
Protection	over voltage protection	YES
	short circuit protection	YES
	over temperature protection	YES
	automatic restart	YES
	over load protection	YES
	surge capacity	L-N: 2kV
Ambient and Life	Ta(°C)	-20...50
	Tc max.(°C)	85
	Storage Temperature(°C)	-30...80
	ambient humidity range	5%...85%, Not condensing
	nominal life-time(hrs)	50'000@Tc=75 C
Other	weight(g)	310
	dimensions (LxWxH)(mm)	185x60x31
	casing material	Plastic
	housing colour	Grey+Blue
	type of protection	IP20
	protection class	ClassII
Note	<p>1. Tolerance:includes set up tolerance, line regulation and load regulation.</p> <p>2. Tested at full load,230Vac.Refer to""Power Factor"" and ""EFFICIENT""curve graphs.</p> <p>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.</p> <p>4. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 of ambient temperature.</p> <p>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>	

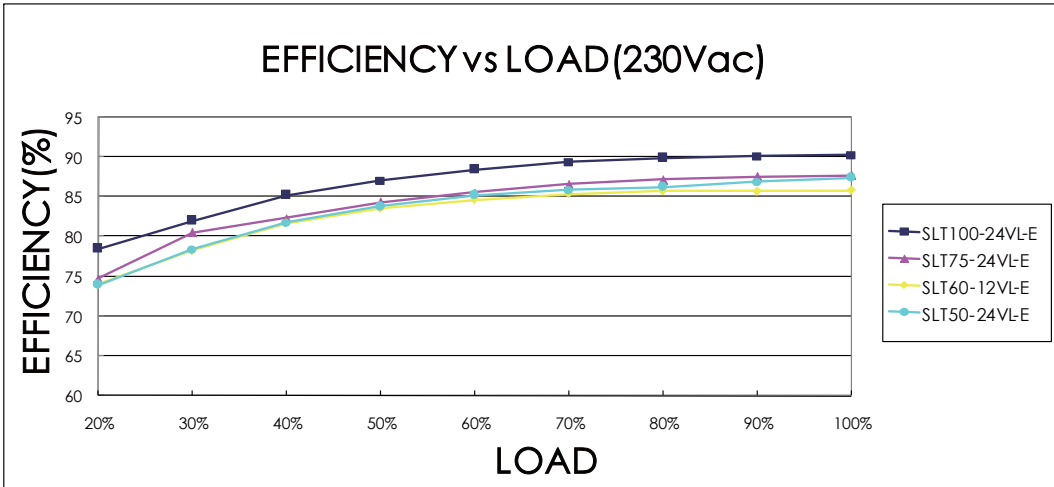
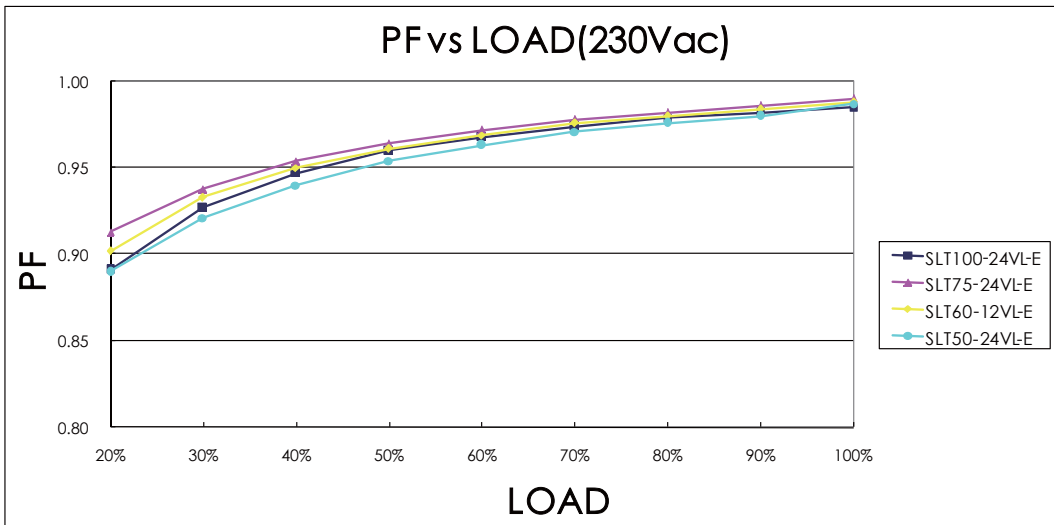
Dimensions(mm):



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	B10	B13	B16	B20	C10	C13	C16	C20
SLT75-24VL-E	9	12	15	19	16	19	26	32

### Order information:

Order.No.	Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
1001-260021-0130	SLT75-24VL-E	30	340x210x235	10.2

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