

# Constant Voltage LED Power Supply

## SLT30-12/24/48VLG-Es



### Product description:

It is designed for compromise between an attractive price and high performance, which meets SELV standard of preventing electric shock. Open circuit, short circuit, over load and over temperature Protection enhance the safety in processing. Low standby power consumption complies with ERP directives. Optimized electric circuit design brings cost-effectiveness.

### Standards:

EN61347-1  
EN61347-2-13  
N61547  
EN55015  
EN61000-3-2  
EN61000-3-3  
EN62384  
EN62493

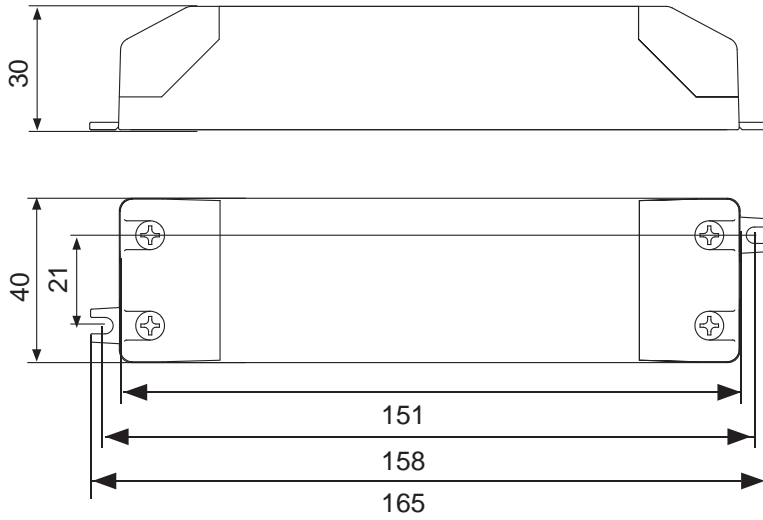
### Characteristics:

- Independent use design
- SELV output(<60V)
- Open circuit, short circuit, over load and over temperature protection.
- Auto restart after fault conditions removal
- No load power consumption  $\leq 0.3W$

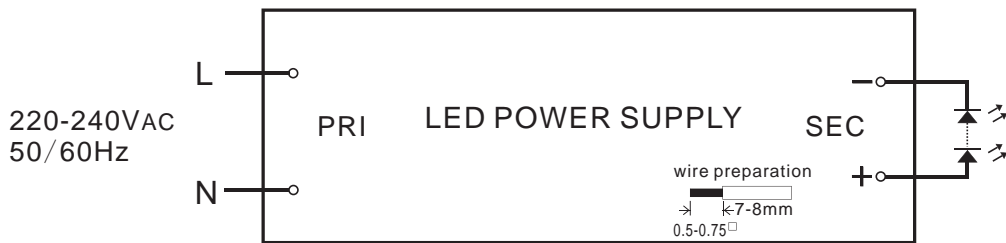
## Specifications:

Model	SLT30-12VLG-Es	SLT30-24VLG-Es	SLT30-48VLG-Es	
Output	turn on time(S) <sup>1</sup>	0.5	0.5	0.5
	output power(W) <sup>1</sup>	30	30	30
	output voltage(V)	12	24	48
	output voltage tolerance <sup>2</sup>	+/-5%	+/-5%	+/-5%
	ripple voltage(mV)	200(Vp-p)	400(Vp-p)	800(Vp-p)
	working current range(A)	0-2.5	0-1.25	0-0.625
	output safety rating	SELV		
	dimming interface	No		
	dimming range	n/a		
Input	rated supply voltage(Vac)	220-240	220-240	220-240
	voltage range(Vac)	198-264	198-264	198-264
	line frequency(Hz)	50/60	50/60	50/60
	input current(mA)	200	200	200
	input power(W) <sup>1</sup>	35.4	35	35
	efficiency <sup>3</sup>	84.0%	85.0%	86.0%
	average efficiency <sup>4</sup>	80.0%	82.0%	83.0%
	no load power consumption(W) <sup>1</sup>	0.3	0.3	0.3
	power factor <sup>3</sup>	0.95	0.95	0.95
	THD <sup>3</sup>	20%	20%	20%
	inrush current(Ipk)	16A/150uS	16A/150uS	16A/150uS
Protection	input over voltage protection	320Vac,1 hours.		
	short circuit protection	In case of a short circuit on the secondary side,the ECG will switche off.		
	over temperature protection	ECG switchs off if the temperature reaches a certain degree.		
	over load protection	ECG works in pulsed light output mode.		
	automatic restart	After elimination of the fault condition the ECG will recover automatically.		
	surge capacity	L-N:1kV		
Ambient and Life	Ta(°C)	-20...50		
	Tc max.(°C)	90		
	nominal life-time(hrs)	35'000@Tc=75 C		
	Storage Temperature(°C)	-30...80		
	ambient humidity range	5%...85%, Not condensing		
Other	weight(g)	200		
	dimensions (LxWxH)(mm)	165x40x30		
	casing material	Plastic		
	housing colour	Grey+Blue		
	connecting method	Terminal block		
	type of protection	IP20		
	protection class	ClassII		
Note	1. At 230Vac,50Hz,full load. 2. Tolerance:includes set up tolerance,line regulation and load regulation. 3. At 230Vac,50Hz,full load.Refer to EFFICIENT Power Factor and THD 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.			

### Dimensions(mm):

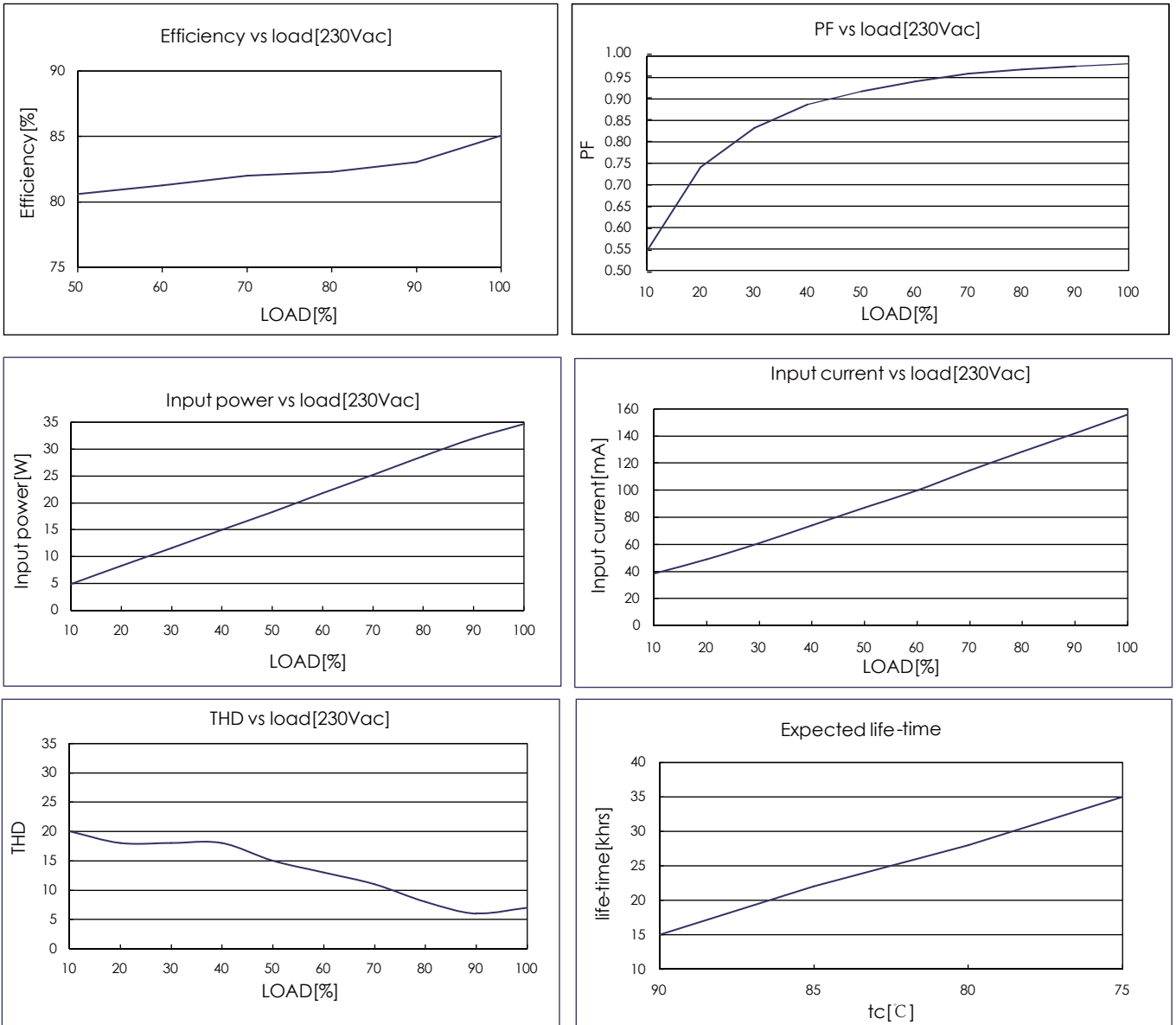


### Wiring diagram:



**Electrical curves:**

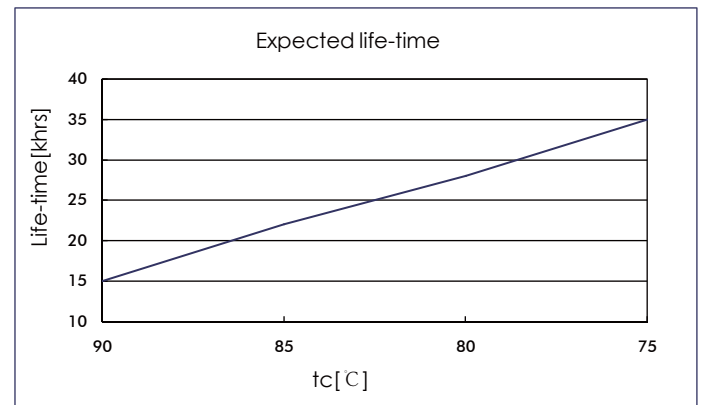
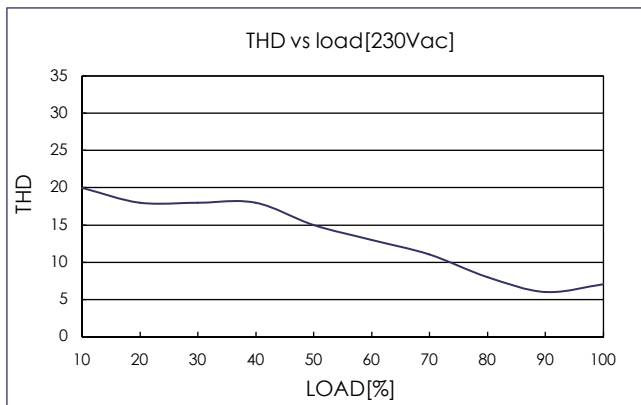
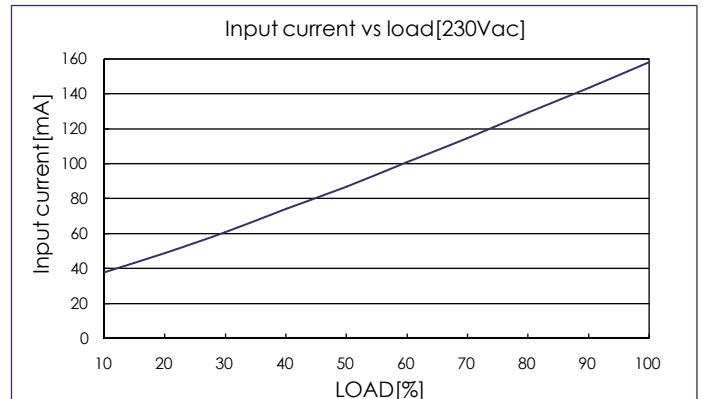
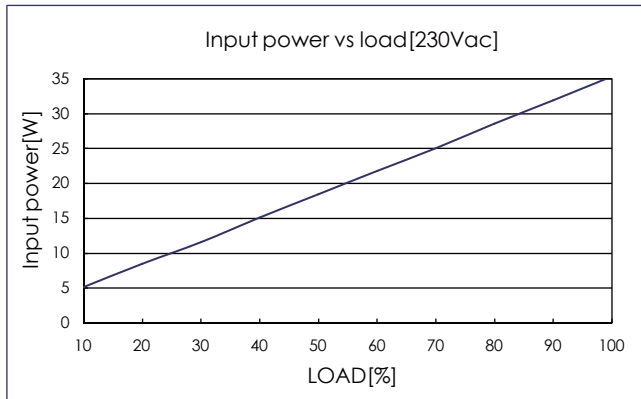
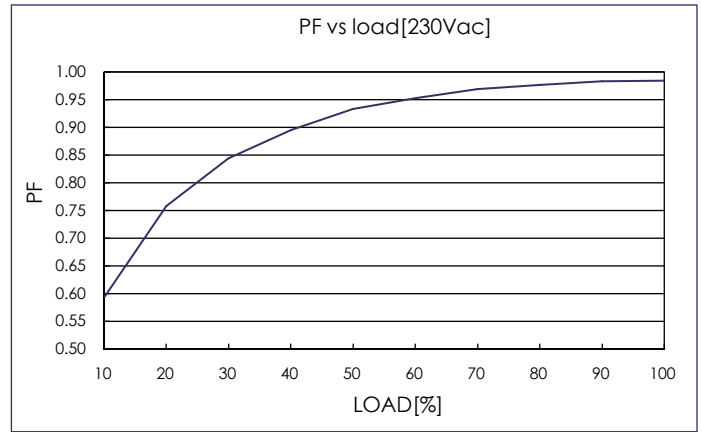
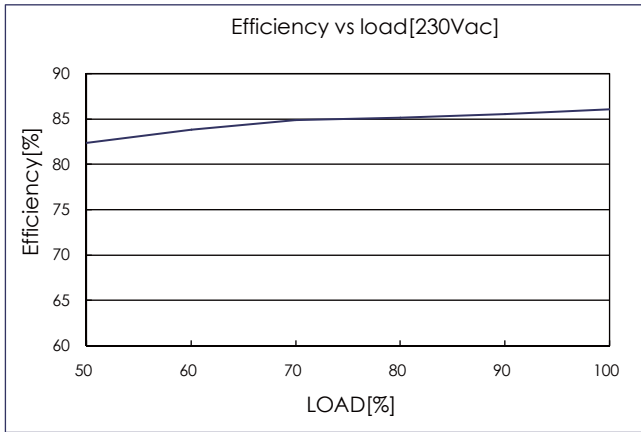
SLT30-12VLG-ES



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.

Electrical curves:

SLT30-24VLG-ES

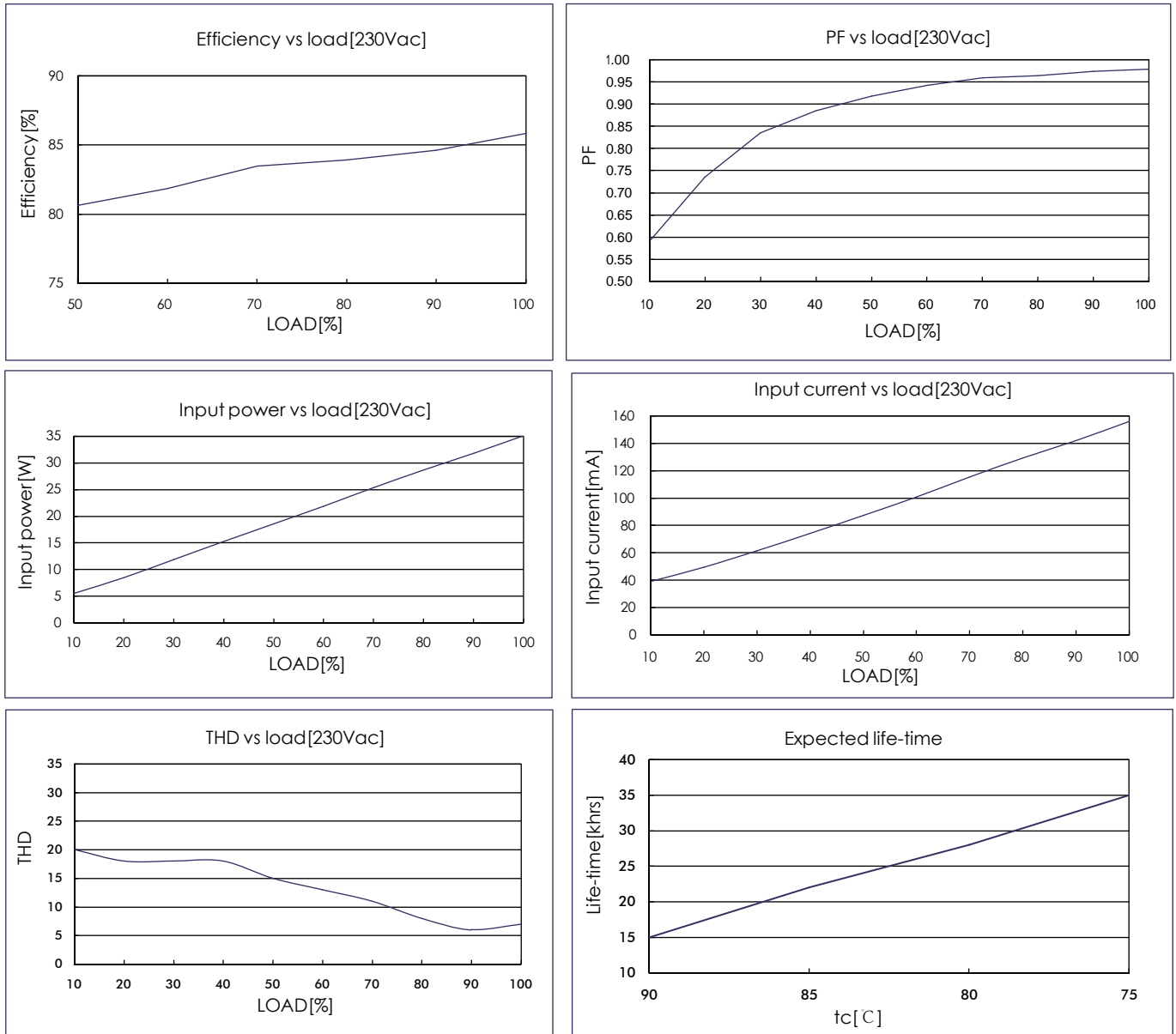


note

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.

Electrical curves:

SLT30-48VLG-ES



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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