

Constant Voltage LED Power Supply Phasecut Dimmable

Phasecut Dimmable



Product description:

This type of dimmable 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. The output current of the converter could be dimmed between 5%-100% by trailing or leading edge dimmers.

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

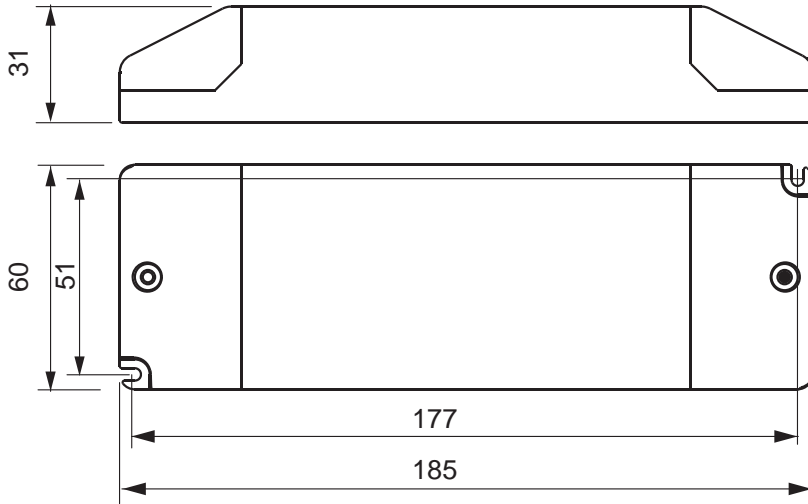
Characteristics:

- Independent power supply for constant voltage LED lamp
Terminal block for quick connection
- 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
- The output current of the power supply could be dimmed between 5%-100% by trailing edge or leading edge dimmers.
- Efficiency: 86.5% (AC230V, full load)

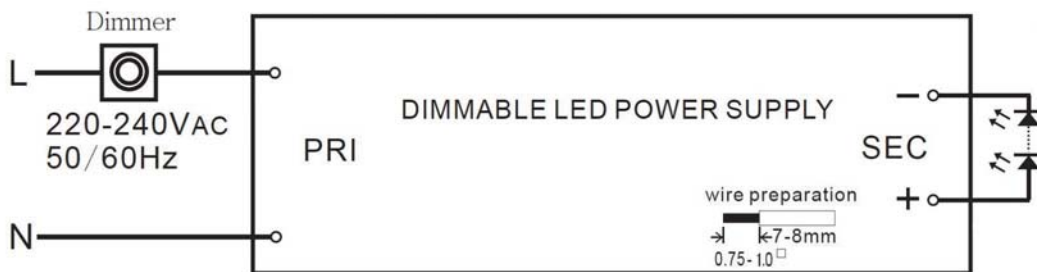
Specifications :

Model	SLD75-12VL-E	SLD75-24VL-E	
Output	turn on time(S)	≤0.5	≤0.5
	output power(W)	75	75
	output voltage(V)	12	24
	output voltage tolerance ¹	±5%	±5%
	ripple voltage(mV)	300	300
	working current range(A)	1.0-6.25	0.5-3.1
	dimming interface	trailing or leading edge or Intelligent dimming system	
	dimming range	5%-100%, the minimum dimming proportion will be impacted by the phase angle of the dimmer	
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)	410	390
	efficiency ²	85.0%	86.5%
	average efficiency ³	81.0%	83.2%
	power factor ²	0.95	0.95
	inrush current(Ipk)	30A/1ms	30A/1ms
Protection	over voltage protection	YES	YES
	short circuit protection	YES	YES
	over temperature protection	YES	YES
	automatic restart	YES	YES
	over load protection	YES	YES
	surge capacity	L-N: 1KV	L-N: 1KV
Ambient and Life	Ta(°C)	-10...45	-10...45
	Tc max.(°C)	85	80
	Storage Temperature(°C)	-30...80	
	ambient humidity range	5%...85%RH, Not condensing	
	nominal life-time(hrs)	30'000@Ta=45°C	
	failure rate	0.1%/1000h	
Other	weight(g)	430	
	dimensions (LxWxH)(mm)	185x60x31	
	casing material	Plastic	
	housing colour	White	
	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 average 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>		

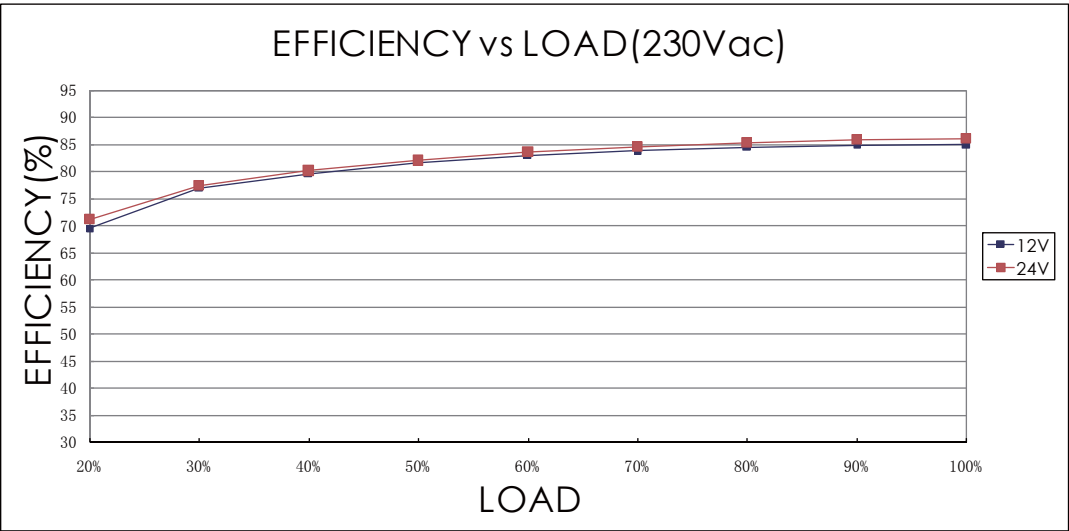
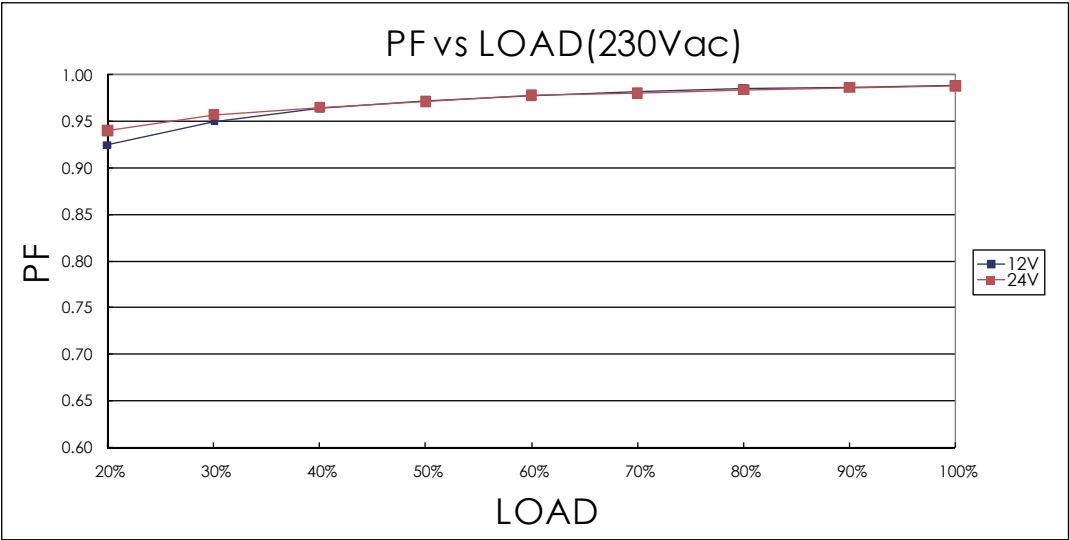
Dimensions(mm):



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.

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