

Constant Voltage LED Power Supply

Phasecut Dimmable

SLD15-24VL-E

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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 (24Vdc) connected in parallel. The output current of the converter could be dimmed between 5%-100% by trailing edge dimmers or Intelligent dimming system.

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

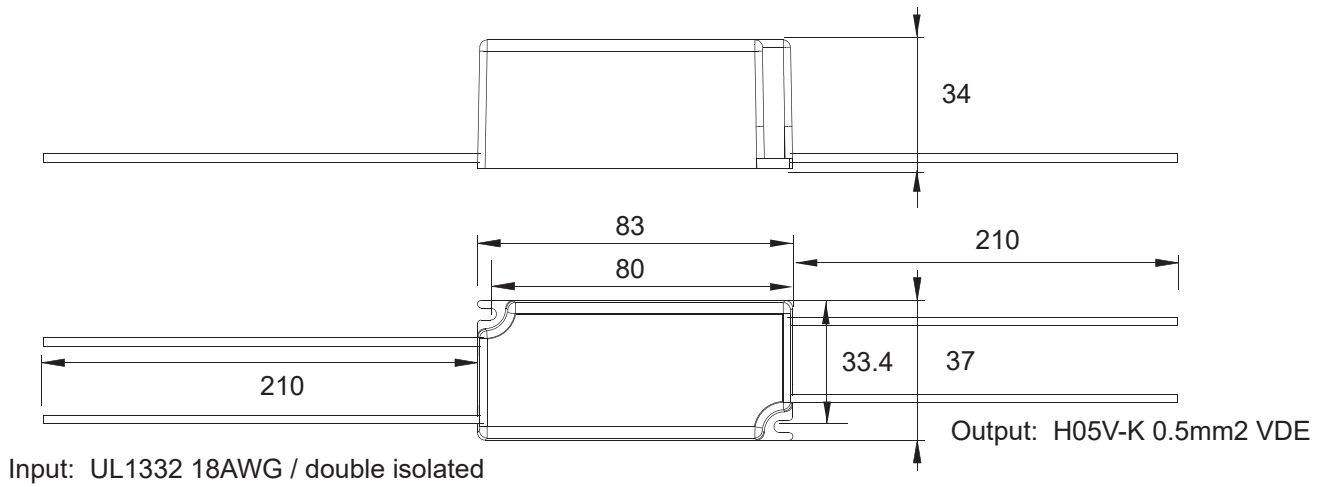
Characteristics:

- Independent power supply for constant voltage LED lamp
- 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 dimmers or Intelligent dimming system.

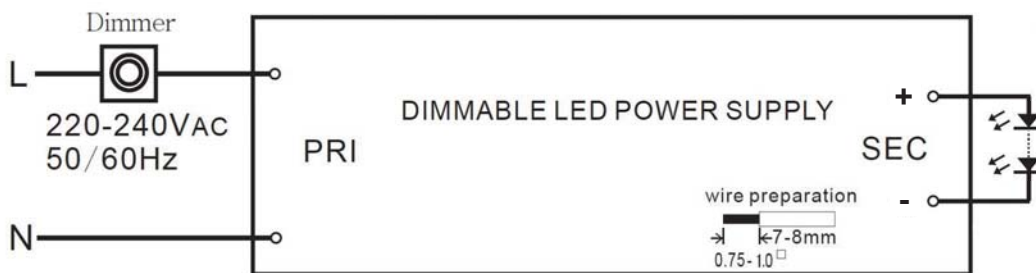
Specifications:

Model		SLD15-24VL-E
Output	turn on time(S)	≤0.5
	output power(W)	15
	output voltage(V)	24
	output voltage tolerance ^①	±5%
	ripple voltage(mV)	300
	working current range(A)	0.2-0.625
	dimming interface	trailing 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
	voltage range(Vac)	198-264
	line frequency(Hz)	50/60
	input current(mA)	100
	efficiency ^②	78.5%
	average efficiency ^③	70.0%
	power factor ^②	0.95
	inrush current(Ipk)	20A/200us
Protection	over voltage protection	YES
	short circuit protection	YES
	over temperature protection	YES
	automatic restart	YES
	over load protection	YES
	surge capacity	L-N:500V
Ambient and Life	Ta(℃)	-10...50
	Tc max.(℃)	80
	Storage Temperature(℃)	-30...80
	ambient humidity range	5%...85%RH, Not condensing
	nominal life-time(hrs)	30'000@Ta=50℃
	failure rate	0.1%/1000h
Other	weight(g)	180
	dimensions (L×W×H)(mm)	84x37x34
	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 full load,230Vac. 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 average 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.	

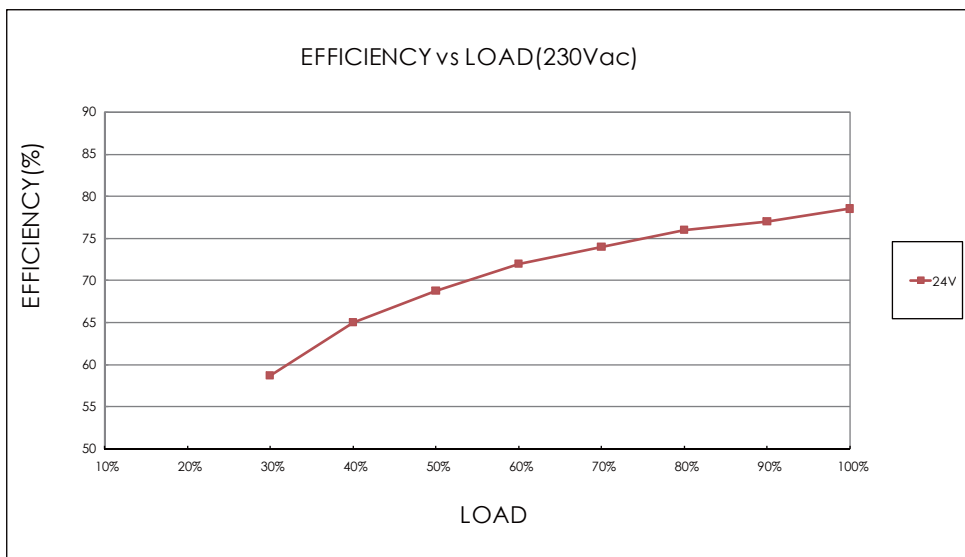
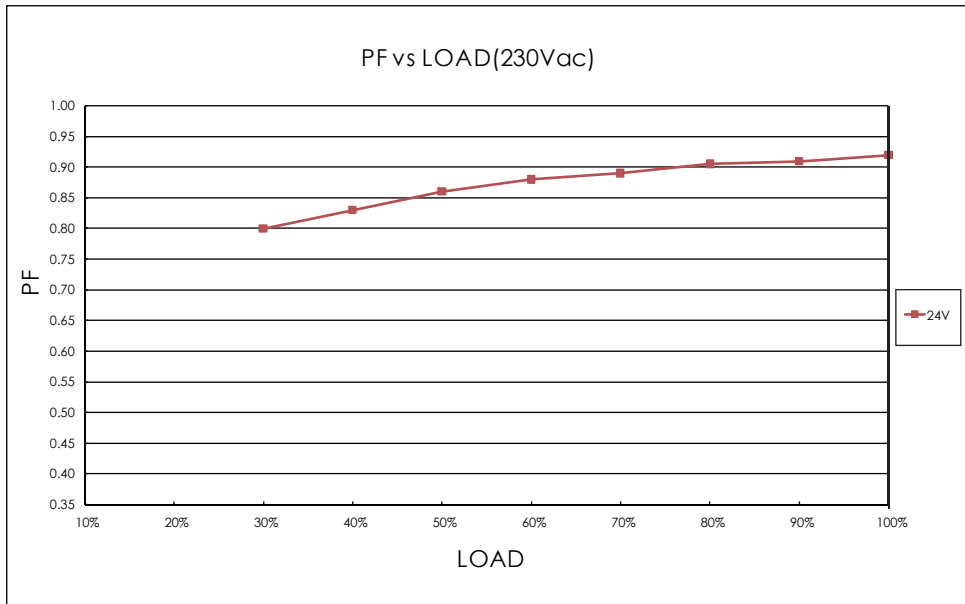
Dimensions(mm):



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
Model								
SLD15-24VL-E	23	30	36	46	38	46	62	76

Order information:

Order.No.	Model	Carton quantity(pcs)	Carton dimension(mm)	G.W./CTN(kg)
1001-210046-0130	SLD15-24VL-E	50	280x235x255	11.2

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