TRIAC LED power supply unit

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

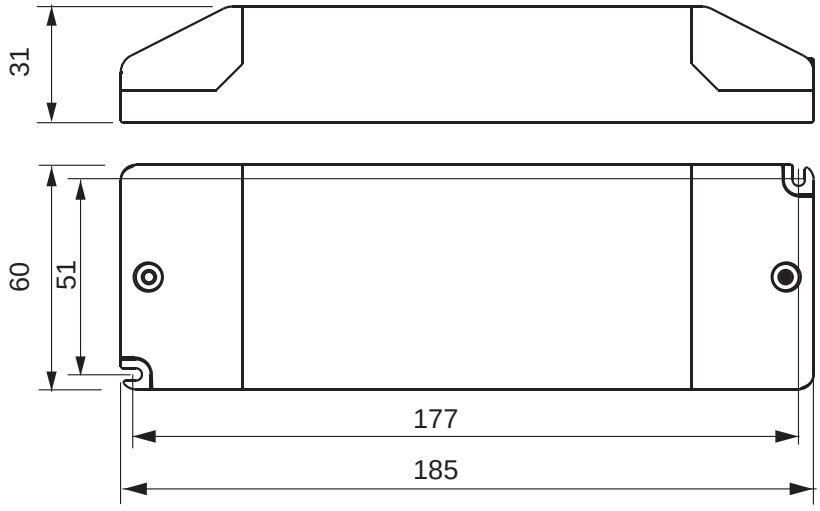
Characteristics:

- 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）

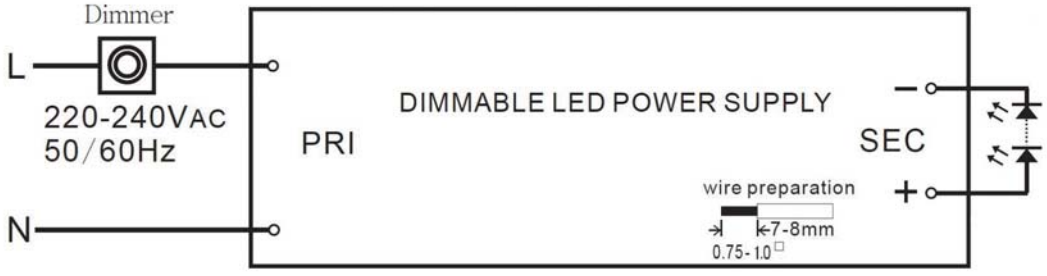
Specifications:

Model		TRIAC LED PSU 12V	TRIAC LED PSU 24V
Output	turn on time(S)	≤0.5	≤0.5
	output power(W)	75	75
	output votage(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 dimmin 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(℃)	-10...45	-10...45
	Tc max.(℃)	85	80
	Storage Temperature(℃)	-30...80	
	ambient humidity range	5%...85%RH，Not condensing	
	nominal life-time(hrs)	30'000@Ta=45℃	
	failure rate	0.1%/1000h	
Other	weight(g)	430	
	dimensions (LxWxH)(mm)	185×60×31	
	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 erage 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.		

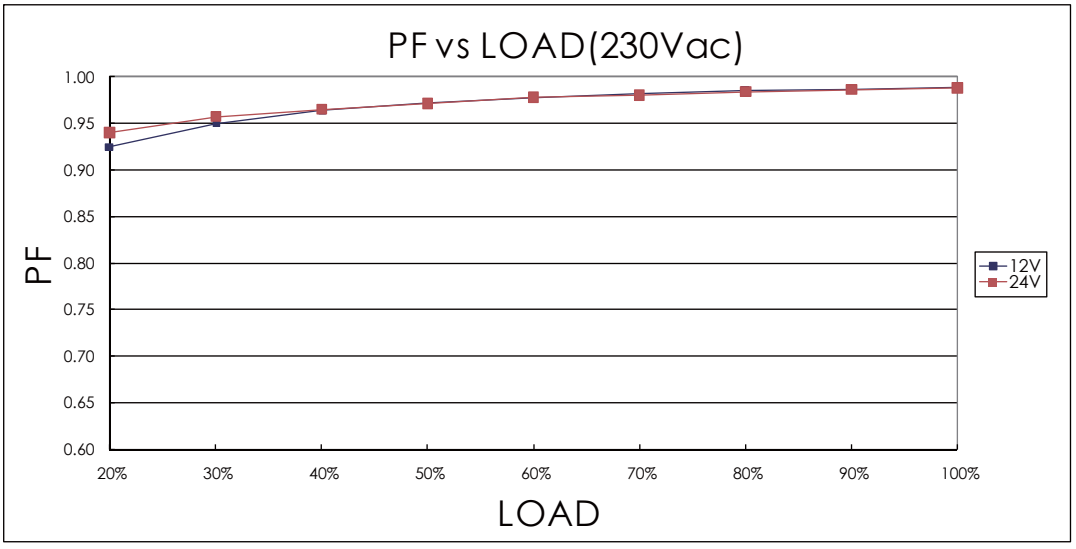
Dimensions(mm):

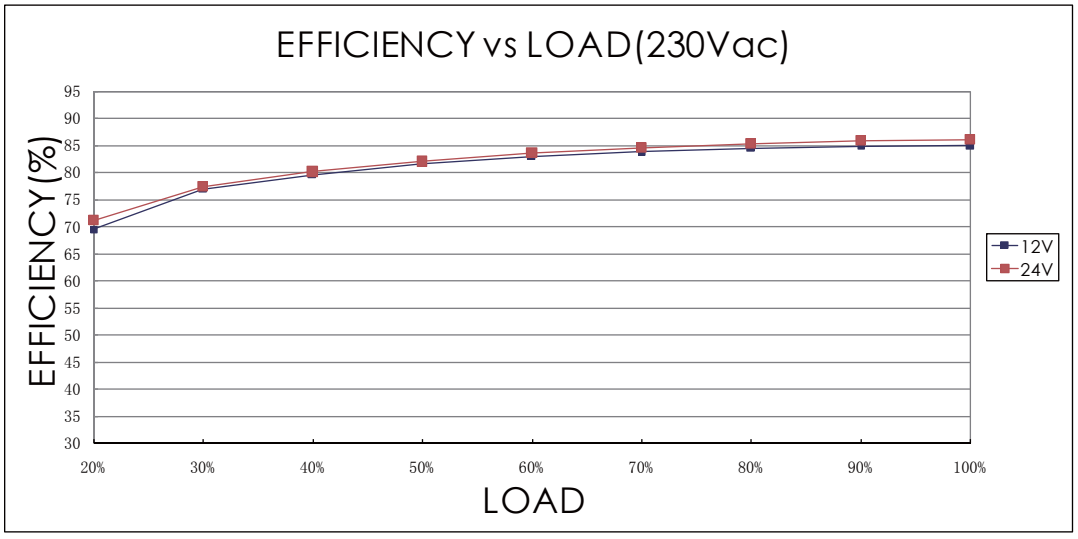


Wiring diagram:



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.