

Product model: PE283 18-30W



Features:

- LED phase-cut dimming driver, dimming range 2-100%
- suitable for trailing edge phase cut MOSFET dimmer and leading edge phase cut TRIAC dimmer
- Protection style: short circuit/ over current/ over voltage
- Natural cooling
- Application for LED household lighting and commercial lighting applications
- No load safe protective device
- Simple installation
- Measure up to the world lighting equipment safety standard
- Protection class II
- Three year warranty

Description

PE283 LED dimming driver is one of the high power driver of our company development. It use the high-efficient , stable, low-loss US chip, and other good performance electronic components, which make it with low-noise, energy-saving, long life and other characteristics.And the output wiring can be selected according to the dimmer type used by users, which can change the dimming effect.



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Product performance parameters

1. Electric features

Model No		PE283B4270
Output	Output power	14.7W
	Constant current voltage	25-42V
	Constant current	700mA
	Accuracy	±5%
	Ripple	41.3mVp-p
	Starting time	<600mS
Input	Voltage range	200-250
	Frequency range	47-63Hz
	PFC	PF>0.87
	Efficiency	0.81@AC200V 0.81@AC250V
	AC current	150mA
Protection	Open circuit	Voltage limiting mode, the output voltage is the max
	Short circuit	Hiccup mode, it can be restarted automatically after removing the abnormal condition
	Over current	Constant current limit, it isn't possible to over current
	Over voltage	43V
environment	Operating temperature	-20~ +45°C
	Operating humidity	10-85%RH
	Storage temperature humidity	-40~ 85°C 10~85%RH
	Temperature coefficient	±0.03%/°C(0-50°C)
Safety and EMC	Safety standard	EN 61347-2-13:2006 /EN 61347-1:2008
	Withstand voltage	I/P-O/P:3.75KVAC
	Insulation resistance	I/P-O/P:100M Ohms / 500VDC /25°C/70%RH
	EMI	EN55015
	harmonic current	EN6000-3-2/EN6000-3-3
	EMS	EN6000-4-2
Other	Dimension	74*47*27 (mm (L*W*H))

Note:

- All the parameters were tested in the input 240VAC, the rated load, 25 C ambient temperature conditions if no special instructions.
- The dimming driver should be used with the terminal equipment, So the customer should re-test the EMC of the whole set of equipment.

2. Withstand voltage test

The use of Withstand Voltage tester TH2811D, respectively short circuit input and output, high voltage connection input end, connect ground , connect output and then in 10 seconds the voltage rises from 0 to AC3750V, keep 50 seconds, during the period, no fire , no alarm, leakage current is less than 2mA.

3. Surge lightning test

Waveform data: 1.2/50 μ s

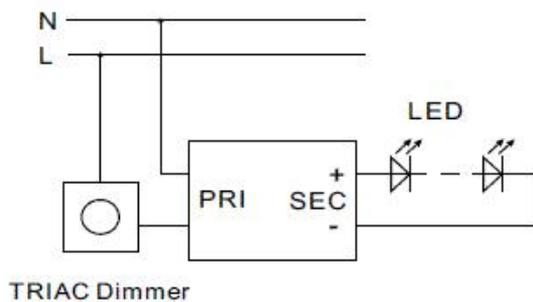
Test voltage: 1.3KV

At experimental voltage condition, exert surge pulse for three times respectively at the 0° phase, 90° phase, 180° phase and 270° phase, the time interval between continuous pulses is 20S.

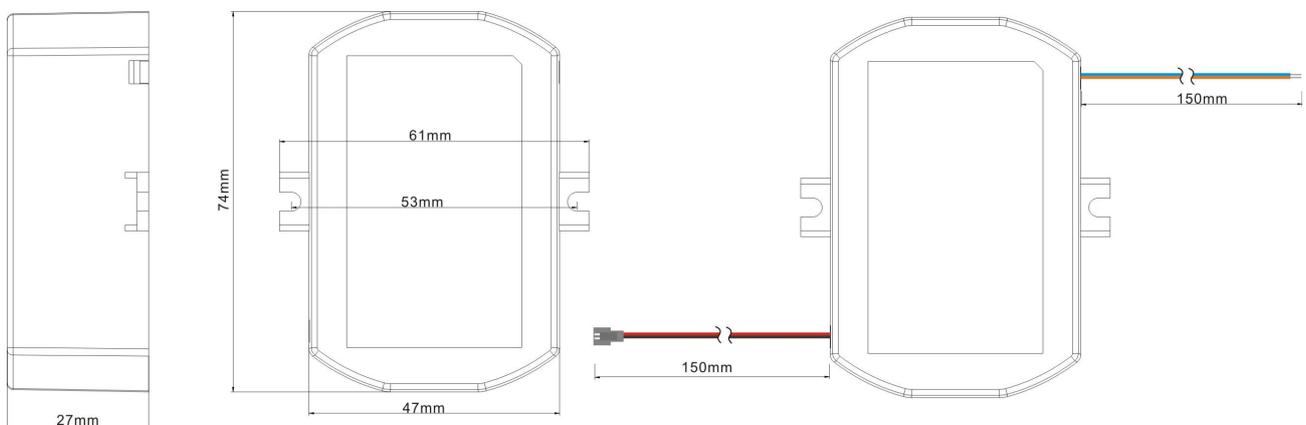
4. Specification operation

Dimming operation method

Triac Dimmer is connected in L-line to realize dimming.



Boundary dimension



Instruction

The input and output lines are connected according to the product identification

Note:

★★1. Please note the input and output, confirm the wires are right then electrify.

★★2. First connect the load of the DC output terminal, confirm it is right then electrify; if it is open circuit please turn off the power, wait for the electrical release, then put on the LED, or it will burn out the LED.

★★3. This dimming driver is used for LED only, the input voltage range is AC 200-250V, the output voltage range is DC25-42V, the use range of output current is $700\text{MA} \pm 5\%$. The use environment temperature is -20 to +45 degrees, and the surface can not cover the heat insulation cotton and other items that obstruct the heat dissipation of the product. It meets the use of the product. Under the conditions of this environment, the product enjoys three years of free warranty.

The abnormal conditions and the corresponding treatment methods:

1, the LED lamp doesn't bright after the dimming driver is connected at the first time ,please turn off the AC input and check as follow:

- a) Whether or not DC output bad contact;
- b)Whether DC output polarity is reversed, or the LED board is welded anti;
- c)Whether AC input is bad contact; test after eliminating these failures.

2, the device has good connection, LED lights, but the LED flicker, please turn off the AC input, then check the DC output:

- a) overload, under load.
- b) Whether or not the parameters and actual parameters match.

3, please timely communicate with us if you any questions in the using, we will help you to solve

Statement

The pictures and specifications is for reference only