# LED dimmable driver PE292 30W

## Product model


## Features:

-LED phase-cut dimming driver, dimming range 0-100%

-suitable for trailing edge phase cut MOSFET dimmer and leading edge phase cut TRAIC dimmer

- Isolated high-precision constant current ±1%
- Active PFC：> 0.9
- Ultra-small dimension, compact design
- Self-locking style cap
- Big wiring terminal, screw assembling
- Natural cooling
- No load safe protective device
- Overload ,open circuit& Short circuit protection
- Over temperature protection
- Simple installation
- Measure up to the world lighting equipment safety standard
- Protection class II

-Three year warranty

## Description

PE292 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.

1：Intelligent Holding Current

IHC ： suitable for different TRIAC dimmer , ensure the light smooth, stable and flicker-free within the dimming range 1to 100%

2：Dual constant current

DCC: Isolated high-precision constant current to 1%， current no effect by the temperature too much.

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## Electrical features

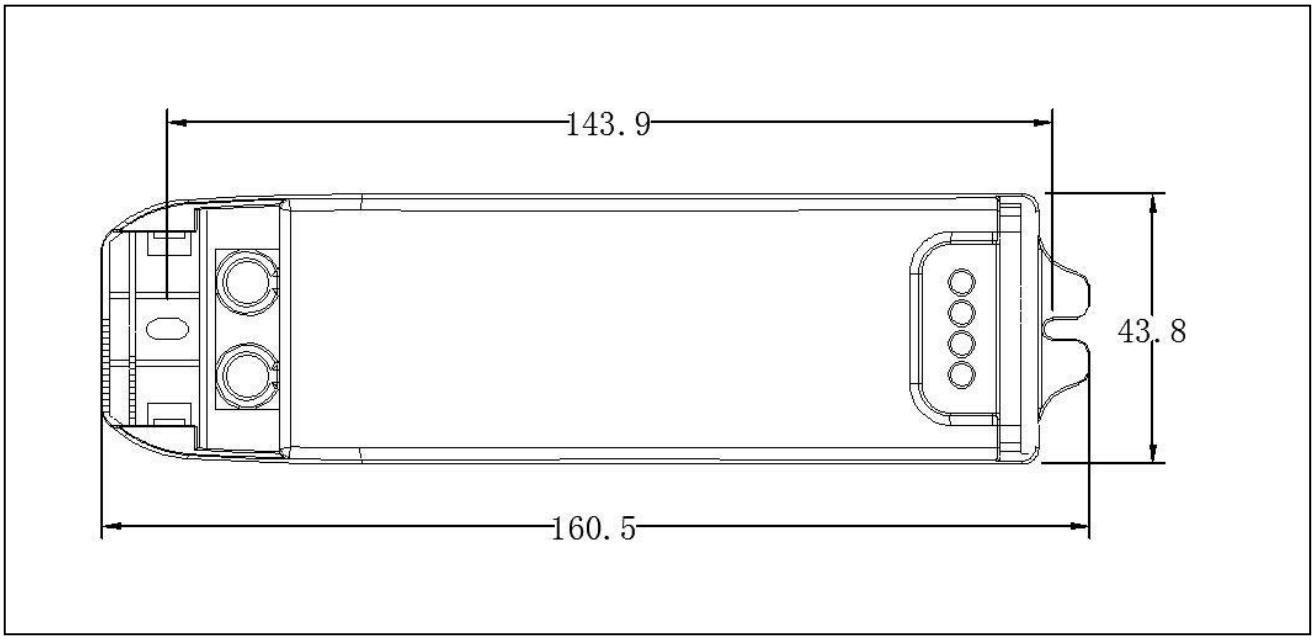
| Model No | | PE292B 2490 | PE292B 3060 | PE292B 3070 | PE292B 3075 | PE292B 3035 | PE292B 3040 |
|---|---|---|---|---|---|---|---|
| Output | Output power | 21.6W | 25.2W | 29.4W | 25.6W | 24.5W | 28W |
| | Constant current voltage | 12-24 | 25-42 | 25-42 | 25-38 | 43-70 | 43-70 |
| | Constant current | 900mA | 600mA | 700mA | 750mA | 350mA | 400mA |
| | accuracy | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% |
| | Ripple | 400mVp-p | 400mVp-p | 500mVp-p | 400mVp-p | 500mVp-p | 500mVp-p |
| | Starting time | <500mS | <500mS | <500mS | <500mS | <500mS | <500mS |
| Input | Voltage range | 200-250 | 200-250 | 200-250 | 200-250 | 200-250 | 200-250 |
| | Frequency range | 47-63Hz | 47-63Hz | 47-63Hz | 47-63Hz | 47-63Hz | 47-63Hz |
| | PFC | PF>0.88 | PF>0.88 | PF>0.88 | PF>0.88 | PF>0.88 | PF>0.88 |
| Protection | Open circuit | Voltage limiting mode, the output voltage is the max | | | | | |
| | Short circuit | Hiccup mode, after taking out the unusual thing it can be start again | | | | | |
| | Over current | dual constant current，will not over load current | | | | | |
| | Over voltage | 25V | 43V | 43V | 39V | 75V | 75V |
| environment | Operating temperature | -20~ +65℃ | | | | | |
| | Operating humidity | 20-95%RH | | | | | |
| | Storage temperature humidity | -40~ 85℃<br>10~95%RH | | | | | |
| | Temperature coefficient | ±0.03%/℃(0-50℃) | | | | | |
| Safety and electromagnetic compatibility | 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℃/70%RH | | | | | |
| | Electromagnetic interface | EN55015 | | | | | |
| | Harmonic current | EN6000-4-2 | | | | | |
| Other | Electromagnetic susceptibility | 158x44x31mm (L*W*H) | | | | | |
| | dimension | 183*50*38mm (L*W*H) | | | | | |

| Model No | | **PE292B 3045** | **PE292B 3050** |
|---|---|---|---|
| Output | Output power | 29.25W | 30W |
| | Constant current voltage | 43-65 | 43-60 |
| | Constant current | 450mA | 500mA |
| | accuracy | ±1% | ±1% |
| | Ripple | 400mVp-p | 400mVp-p |
| | Starting time | <500mS | <500mS |
| Input | Voltage range | 200-250 | 200-250 |
| | Frequency range | 47-63Hz | 47-63Hz |
| | PFC | PF>0.88 | PF>0.88 |
| Protection | Open circuit | Voltage limiting mode, the output voltage is the max | |
| | Short circuit | Hiccup mode, after taking out the unusual thing it can be start again | |
| | Over current | dual constant current，will not over load current | |
| | Over voltage | 70V | 70V |
| environment | Operating temperature | -20~ +65℃ | |
| | Operating humidity | 20-95%RH | |
| | Storage temperature humidity | -40~ 85℃<br>10~95%RH | |
| | Temperature coefficient | ±0.03%/℃(0-50℃) | |
| Safety and electromagnetic compatibility | 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℃/70%RH | |
| | Electromagnetic interface | EN55015 | |
| | Harmonic current | EN6000-4-2 | |
| Other | Electromagnetic susceptibility | 158x44x31mm (L*W*H) | |
| | dimension | 183*50*38mm (L*W*H) | |

Note:

1. All the parameters were tested in the input 230VAC, the rated load, 25 C ambient temperature conditions if no special instructions.
2. When the input voltage is lower than 200VAC, the output current will be lower as the input voltage reduce, which is the characteristic of the dimming driver.
3. The dimming driver should be used with the terminal equipment, So the customer should re-test the EMC of the whole set of equipment.

## Boundary dimension




## Instruction

There is a orange cap in the input side, with a self-locking terminal, use a straight screwdriver to take up the cover slowly, then connect the power line L and the zero line N. According to the mark to connect the output side，please note the Positive and Negative electrode.

Almost dimmer is one wire type，only connect to the power line L of the driver output terminal to achieve dimming.

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.

## 5.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

## 6.Statement

The pictures and specifications is for reference only