

Product model

PE299B36150	12-24V 1500mA
PE299B3685	25-42V 850mA
PE299B3680	25-42V 800mA
PE299B36105	25-35V 1050mA
PE299B3650	42-70V 500mA

Features:

- LED phase-cut dimming driver, dimming range 0-100%
- suitable for trailing edge phase cut MOSFET dimmer and leading edge phase cut TRIAC dimmer
- Isolated high-precision constant current $\pm 1\%$
- 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



1、 Description

PE299 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.

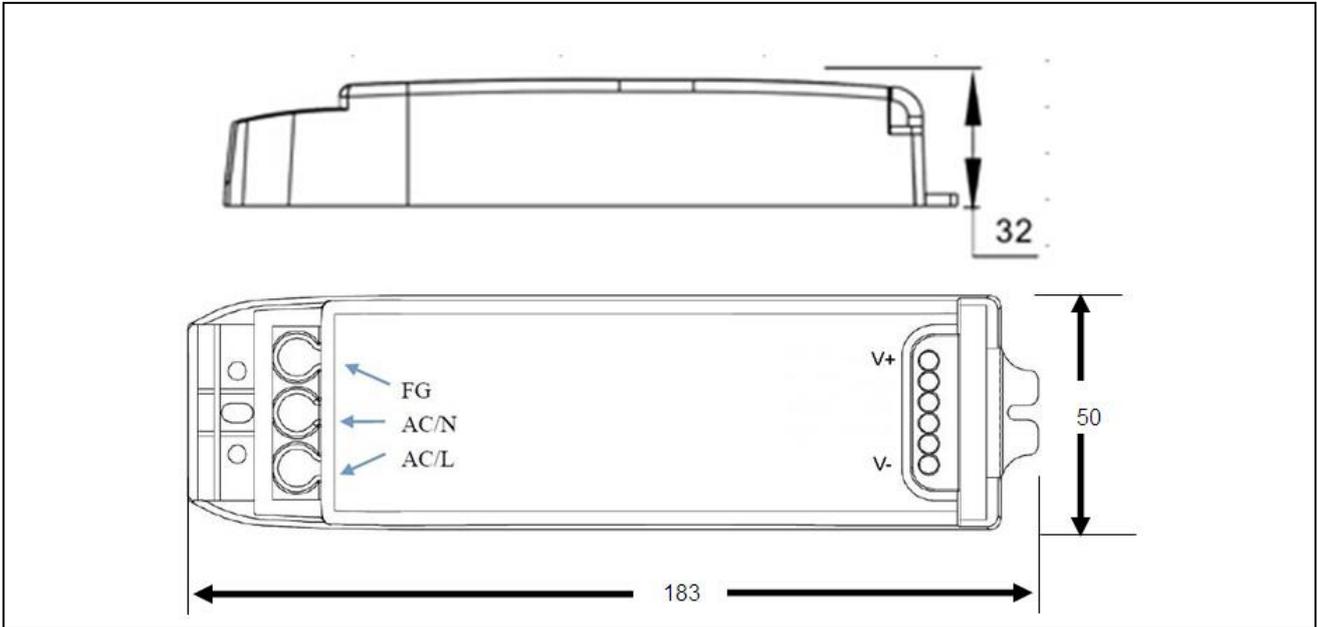
2. Electrical features

Model No		PE299B361 50	PE299B368 5	PE299B3 680	PE299B3610 5	PE299B3650
output	Output power	36W	36W	34W	36W	35W
	Constant current voltage	12-24V	25-42V	25-42V	25-35V	42-70V
	Constant current	1500mA	850mA	800mA	1050mA	500mA
	Constant current accuracy	±1%	±1%	±1%	±1%	±1%
	Ripple	500mVp-p	500mVp-p	500mVp-p	500mVp-p	500mVp-p
	Starting time	<500mS	<500mS	<500mS	<500mS	<500mS
input	Voltage range	200-250	200-250	200-250	200-250	200-250
	Frequency range	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz
	Power factor correction	PF>0.88	PF>0.88	PF>0.88	PF>0.88	PF>0.88
	Efficiency (Typ.)	80%	80%	80%	80%	80%
	Alternating current					
protect ion	Open circuit protection	Voltage limiting mode, the output voltage is the max				
	Short circuit protection	Hiccup mode, after taking out the unusual thing it can be start again				
	Over current protection	dual constant current, will not over load current				
	Over voltage protection	25V	43V	43V	36V	71V
enviro nment	Operating temperature	-20~ +65°C				
	Operating humidity	20-95%RH				
	Storage temperature humidity	-40~ 85°C 10~95%RH				
	Temperature coefficient	±0.03%/°C (0-50°C)				
Safety and electro magne tic compa tibility	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				
	Electromagnetic interface	EN55015				
	Harmonic current	EN6000-3-2/EN6000-3-3				
Other	dimension	(L*W*H)=183*50*32				
	packing	Inner white box, outer carton				

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.

3. Boundary dimension



4. 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

AlDimming[®] LED dimming driver PE299 36W

The pictures and specifications is for reference only
