



PE-N45CA

Intelligent dimming and Color temperature Led driver



Features:

- The dimmable driver is directly controlled by the mobile phone, convenient and quick
- Many people can use it at the same time
- Color temperature and brightness can be controlled
- Protections: Over current& Over voltage
- Natural cool air
- Wire terminal connect conveniently
- Suitable for LED home lighting and commercial lighting
- No load safe protective device
- Simple installation
- Measure up to the world lighting equipment safety standard
- Protection class II
- There year warranty

Description

PE-N45CA Color dimming LED driver is the constant current dimming driver developed by our company with high power factor, high efficiency, high precision, the use of the efficient stable low loss switch control chip and the high performance components makes it with low noise, energy saving, environmental protection, long life and other characteristics.

Use WIFI signal control, and mobile phone APP “Smart Life” control software to adjust lighting and color.

The output of cool and warm lights can be controlled by mixing and adjusting.

It can be shared to third parties for more than one person.

For the APP ,please refer to the APP user’s manual (Light) at another file .

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Product performance parameters

1. Electric features

Model		PE-N45CA B42100
Output	output power	42W
	constant voltage	28-42
	constant current	1000mA
	current precision	±5%
	ripple	400mVp-p
	start-up time	<600mS
Input	voltage range	200-265V
	frequency range	47-63Hz
	PF	PF>0.95
	Efficiency	0.86@AC200V 0.86@AC265V
	AC Current	209mA
Protect ion	open circuit	voltage limiting protection model, the output voltage is the Max voltage.
	over current	constant current limit, it isn't possible to over current
	over voltage	53.8V
Enviro nment	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 specification	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
Electromagnetic susceptibility	EN6000-4-2	
Others	size	(L*W*H) = 190*43*30mm
	package	

Remark:

1. All the parameters are test on AC220V、rated load、temperature25°C
- 2.The driver is regarded as one part of the whole products ,so the EMC of the whole products need to be tested again.



2. Burn-in test

2.1 Long term aging test

A certain number of products are randomly sampled at normal temperature to be burn-in test for long time, With multiple-channel life inspection instrument do the switching simulation test of 50 seconds turn on then 10 seconds power off under the input voltage of 240V , the switch cycle is 4000 times under the maximum output state of the product.

Long term aging test report



中山市调光照明电子有限公司
Zhongshan Dimmable lighting Electronics Co., LTD

Product long term aging test

Input Voltage	Output Load	Shell temperature rise	Required aging time	Actual aging time	State
240V	42V/1000mA	≤40°C	72H	72H	OK

(Note: the input 240V full load , repeated switch to simulate the test with multiple-channel life inspection instrument during the product burn in test, the ambient temperature of the aging room is generally at 23-30 C (relative to the outside temperature, higher in summer temperature).

2.2 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.

2.3 Surge lightning test

Waveform data: 1.2/50μs

Test voltage: 2000V

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.

2.4 Flicker test

There are two evaluation parameters for the luminaire flicker at IEEE Std 1789-2015, flicker percent and flicker index , using flicker tester to collect relevant data in the case of input 240V and different brightness output.



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Flicker test report table

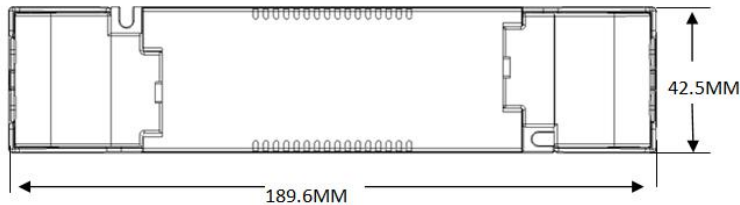
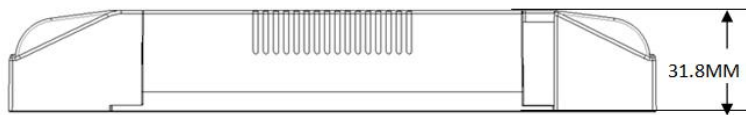
Model	Output	Output	Brightness	Flicker Frequency	Flicker index	Flicker percent	Result
PE-N45CA	AC240V	42V1000m	100%	7462. 7Hz	0. 022	19. 4%	Flicker free
		A	50%	1004. 0Hz	0. 462	99. 1%	Flicker

Note:

At the frequency of alternating current 50Hz, the frequency of the domestic lamps and lanterns is 100Hz, and the luminaire flicker percentage is less than 3.2%. which is the limit range of flicker free harm. The flicker percentage is 8% included the low risk range , and the luminaire flicker is a safe range. If the flicker percent is more than 8%, the lighting product can be seen as a flicker luminaire.

2.6 Standard operation

The product dimension



Dimming operation method



The use of guidance

Input and output lines should be connected according to product identification, attention to positive and negative

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.

Abnormal phenomenon and the appropriate solutions:

1. After installed the driver to the lighting first time, if not light please cut down the AC input and check:
 - a) If the DC output connect right or not ;
 - b) If the DC output positive and negative electrode connect opposite, if the LED board welded opposite;
 - c) If the AC input connect right or not.
2. After installed, LED light, but flicker, cut down the AC input, check the DC output side:
 - a) If the lighting overload, light load;
 - b) If the driver parameters and the actual parameters do not match.
3. When using the driver if there are questions or problems, please contact with our company in time, and feedback to us, we will help you to solve.

Statement:

Pictures and specifications only for reference.