



Product Type:

PE298B50120 25-42V 900mA



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: > 0.88
- 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

PE298 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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2. Electrical features

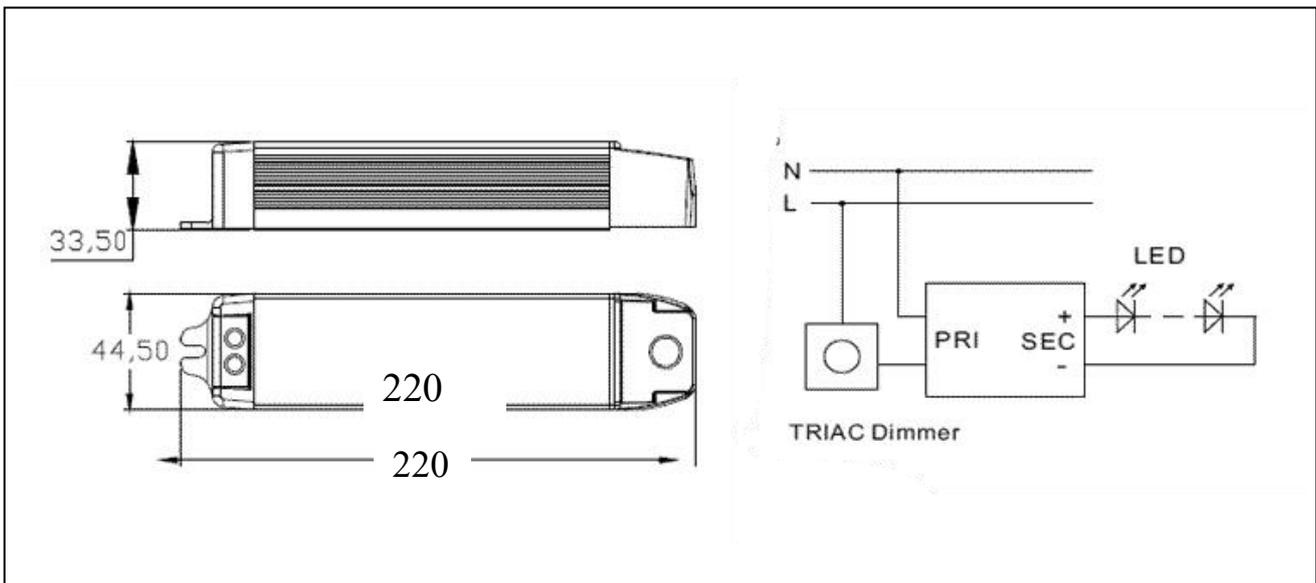
Model		PE298B50120
Output	output power	37.8W
	constant voltage	25-42V
	constant current	900mA
	current precision	±1%
	ripple	400mVp-p
	start-up time	<500mS
Input	voltage range	200-250
	frequency range	47-63Hz
	PF	PF>0.88
Protection	open load protection	voltage limit model, the output voltage is the Max voltage.
	short circuit protection	belching model, after take out the unusual thing it can be start again
	over load current	dual constant current, will not over load current
	over load voltage	43V
Environment	temperature	-20~ +65℃
	humidity	20-95%RH
	stock temperature	-40~ 85℃
	coefficient of temperature	±0.03%/℃(0-50℃)
Safety	safety specification	EN 61347-2-13:2006 /EN 61347-1:2008
	rating of pressure	I/P-O/P:3.75KVAC
	insulation	I/P-O/P:100M Ohms / 500VDC /25℃/70%RH
	EMI	EN55015
	harmonic current	EN6000-3-2/EN6000-3-3
	electromagnetic susceptibility	EN6000-4-2
Others	size	(L*W*H) 220*44.5*33.5mm
	package	Inner box: 225*50*40mm master carton: 322*276*251mm

Mark:

1. All the parameters are test on AC220V、 rated load、 temperature25℃
2. When the input voltage lower then 220VAC,the output current will lower as the input voltage reduce ,it is also the dimming feature
3. The driver is regarded as one part of the terminal products ,so the EMC of the products need to be tested again.



3. Boundary dimension and wiring diagram



4. Instruction

There is a blue 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. Abnormal phenomenon and the appropriate treatment method:

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, turn off 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.

6. Statement:

Pictures and specifications only for reference.