

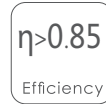
PE-C30DA 30W



CE Class 2
RoHS SELV

Features:

- Standard DALI dimming interface
- With PUSH function to realize PUSH dimming
- Output Flicker free
- International universal AC input voltage (100V to 265VAC)
- Protections: short circuit/over voltage/over current
- Silica gel heat conduction technology, natural cold wind
- Suitable for LED home lighting and commercial lighting
- Safe no load protection device
- Ultra small volume
- Operating ambient temperature up to 55 degrees
- Protection class II
- Three years warranty



General description:

DALI Dimming LED Driver is one of the constant current dimming LED driver developed by my 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, long life and other characteristics.

PE-C30DA has DALI and 0-10V two dimming functions.

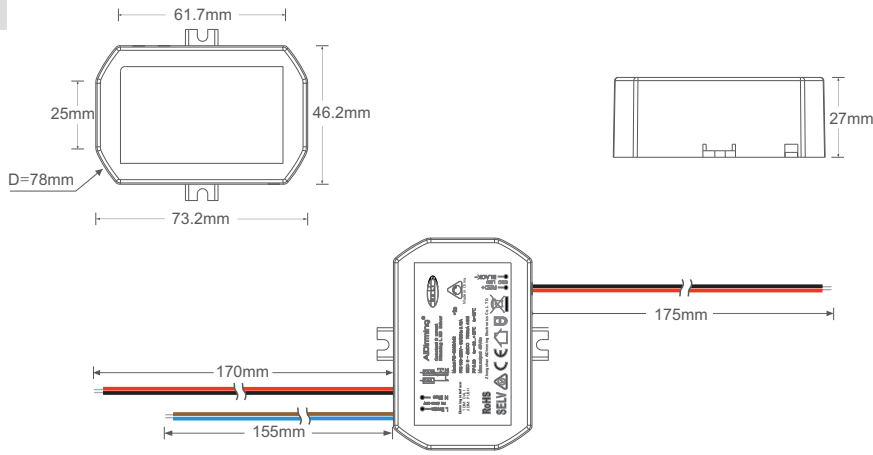
Dimming interface: 1. DALI dimming. use standard DALI signal interface, can match with all DALI control system in the market. DALI full name: Digital Addressable Lighting interface

2. PUSH dimming. It can be connected to all normally open doorbell switches on the market for dimming

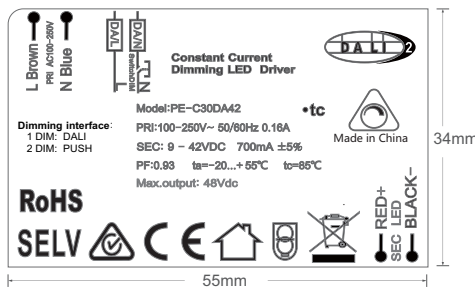
Specification:

| Model | | PE-C30DA4245 | PE-C30DA4250 | PE-C30DA4260 | PE-C30DA4270 |
|-----------------|--------------------------|--|--------------|--------------|--------------|
| OUTPUT | Output Voltage | 9-42Vdc | 9-42Vdc | 9-42Vdc | 9-42Vdc |
| | Max Output Voltage | 42Vdc | 42Vdc | 42Vdc | 42Vdc |
| | Non-load Output Voltage | 55Vdc | 55Vdc | 55Vdc | 55Vdc |
| | Output Current | 450mA | 500mA | 600mA | 700mA |
| | Output Power | 4.05W~18.9W | 4.5W~21W | 5.4W~25.2W | 6.3W~29.4W |
| | Strobe Level | No Flicker | | | |
| | Dimming Range | 0~100%, LEDstart at 0.03% possible. | | | |
| | PWM Dimming Frequency | >3600Hz | | | |
| | Current Accuracy | ±3% | | | |
| Ripple & Noise | ≤2V (No dimming) | | | | |
| INPUT | Dimming Interface | DALI (IEC62386), Push | | | |
| | Input Voltage Range | 100-250Vac | | | |
| | Frequency | 50/60Hz | | | |
| | Input Current | <0.32A | <0.32A | <0.32A | <0.32A |
| | Power Factor | PF>0.95/100Vac, at full load | PF>0.95/100V | PF>0.95/100V | PF>0.95/100V |
| | THD | 230Vac@THD ≤15% (full load) | | | |
| | Efficiency (typ.) | 85%full load | 86%full load | 87%full load | 88%full load |
| | Inrush Current (typ.) | Cold start 3.7A@230Vac | | | |
| | Anti Surge | L-N: 2kV | | | |
| Leakage Current | <0.25mA/230Vac | | | | |
| ENVIRONMENT | Working Temperature | ta: 55°C tc: 80°C | | | |
| | Working Humidity | 20 ~ 95%RH, non-condensing | | | |
| | Storage Temp., Humidity | -40 ~ 80°C 10~95%RH | | | |
| | Temp. Coefficient | ±0.03%/°C(0-50°C) | | | |
| | Vibration | 10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes. | | | |
| PROTECTION | Over Load Protection | Shut down the output when rated power ≥ 102%, auto recovers. | | | |
| | Short Circuit Protection | Shut down automatically if short circuit occurs, auto recovers. | | | |
| | Non-load Protection | output Constant Voltage. | | | |
| SAFETY & EMC | Withstand Voltage | I/P-O/P: 3750Vac | | | |
| | Isolation Resistance | I/P-O/P: 100MΩ/500VDC/25°C/70%RH | | | |
| | Safety Standards | IEC/EN61347-1, IEC/EN61347-2-13 | | | |
| | EMC Emission | EN55015, EN61000-3-2 Class C, IEC61000-3-3 | | | |
| | EMC Immunity | EN61000-4-2,3,4,5,6,8,11, EN61547 | | | |
| | Strobe Test Standard | IEEE 1789 | | | |
| OTHERS | Dimension | 73.2×46.2×27mm(L×W×H) | | | |
| | Packing | PE bag | | | |
| | Weight(G.W.) | 150g±10g | | | |

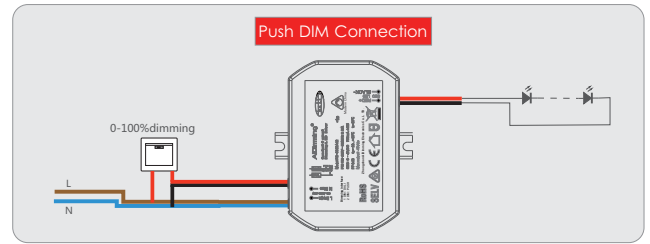
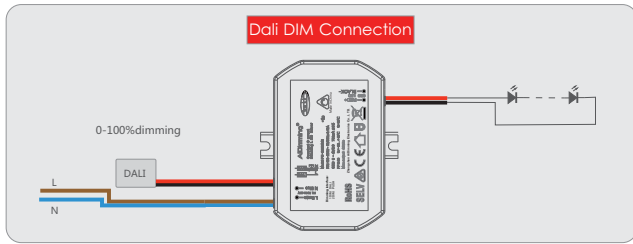
Dimensions :



Product Label:



LED Current Selection:



Push Dimming:

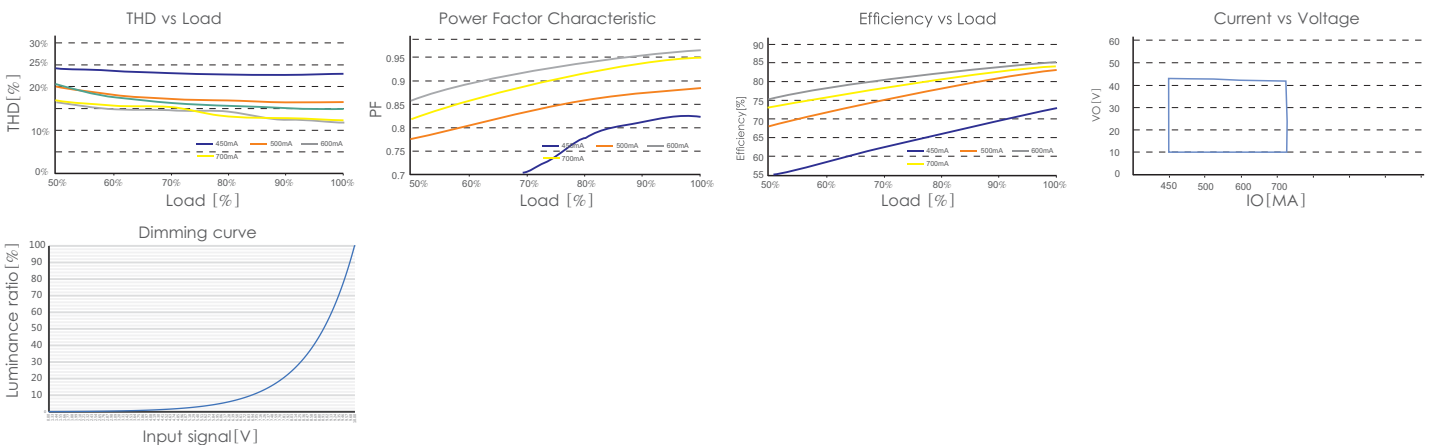


On/off control: Short press.
 Stepless dimming: Long press.
 With every other long press, the light level goes to the opposite direction.
 Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

Wiring:

1. DALI interface: DALI is a digital addressable lighting interface, which is directly connected with Dali control system, and the signal line is not divided into positive and negative poles.
2. PUSH interface: AC voltage is connected to Dali two ports through a switch with automatic reset to realize key dimming.
3. The input terminal: wire gauge length 150-160mm 20AWG, wire stripping requirement: 7-10mm. the signal wire gauge length 170-180mm 22AWG, wire stripping requirement: 6-7mm.
4. The output terminal: wire gauge length 170-180mm 22AWG, wire stripping requirement: 6-7mm.

Relationship Diagrams:



The use of guidance:

This product has a press line cap at the input, with self-locking clamping, it can be opened up with a screwdriver, then you will see the input terminal connected with the AC line L and the null line N. The output terminal connect according to the product label, notice positive and negative pole.

Note:

* * 1; please pay attention to the distinction between input and output, connect correctly, then power on

* *2: please connect first the load of the DC output, open the power supply after checking; in the constant current mode, if power on at open circuit, please turn off the power supply and can't connect the LED until the electric energy stored by the output release , or it may damage the LED;

* *3 : this type of power supply is only limited to the use of LED lamps and lanterns, the input voltage range is AC 100-265V, the output voltage range is DC9-42V, the use range of the output current is 350MA±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, which conforms to the product Under the conditions of the environment, this 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 try our best to solve the problems with you.

Statement:

The pictures and specifications is for reference only, in kind prevail, specifications are subject to change with further notice.

Appendix:

Digital Addressable lighting Interface (DALI)

DALI slave unit will send data only master unit requests, that is, adopt command answering mode

There are 64 slave units at most in the same DALI network, each unit has a separate address(short address), A slave unit can also be assigned to a certain group, and a slave unit can belong to different group, slave unit can exist up to 16 groups at the same time, each unit can set 16 scenarios.

The main features of the DALI protocol

- 1)Asynchronous serial communication.
- 2)1200 baud rate, using the Manchester encoding format.
- 3)Two lines differential signal.
- 4)The high level when differential voltage is larger than 9.5V.
- 5)The low level when differential voltage is less than 6.5V.
- 6)The master unit controls communication process.
- 7)One DALI bus can connect with 64 slave units.
- 8)Each slave unit can be individually addressed.

DALI Electrical Specification

Under the idle state, from machine unit method to control the bus :

- 1)High Output power at ordinary time, not to interference in the hold signal.
- 2)Output low electricity at ordinary time, directly to the DALI bus short circuit to each other.
- 3)DALI bus maximum current of 250mA
- 4)Not a two-way communication at the same time.
- 5)Transmission cable up to 300 meters, or pressure drop is no more than 2v