PE-BF10DA 10W

3 years **RoHS SELV**

DIM | Member | No Flicker | η>85% | CE | NFC Multiple Current | Over-heat Protection | Over Load Protection | Short Circuit Protection

Features:

1. DALI standard interface, standard DT6 protocol, compliant with DALI 144 standards
2. DALI2 certification, DALI membership
3. Digital control output flicker free
4. International universal AC input 200-250V range
5. Natural air cooling, moisture-proof, silicone heat dissipation technology
6. Deep dimming design
7. Multiple protection functions
8. Ultra-compact design
9. Full-featured Advanced NFC Design
10. Standby power consumption less than 0.35W

Application:

1. LED light source
2. Linear lighting
3. Accessible to wireless intelligent lighting system
4. Small aperture lighting fixtures
5. High end commercial lighting

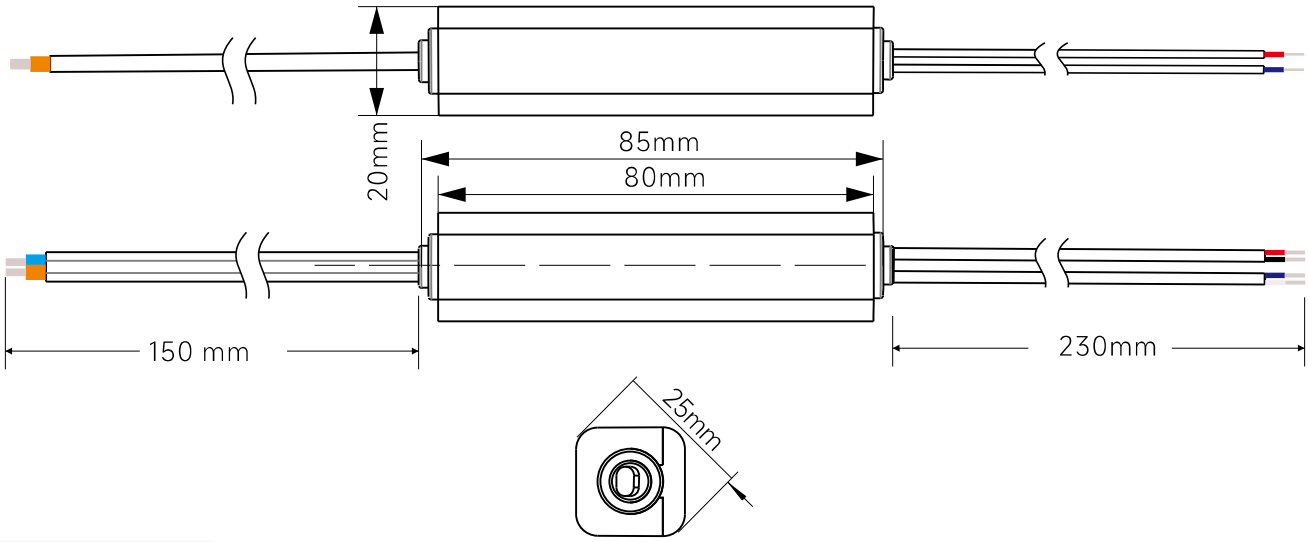
General description:

1. The standard DALI signal is used to control brightness, and the system can set a slow on/off function. The latest mixing and dimming technology is adopted, with deep dimming no flicker and ultra-low power consumption chip. The raw materials used are first-line brands, imported chips, and match various DALI intelligent system and KNX protocol intelligent systems on the market. The brightness is precisely controlled The shell heat conduction process makes the electronic components more stable

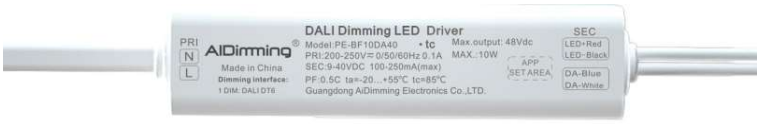
Specification:

Model		PE-BF10DA40	PE-BF10DA13
OUTPUT	Output Voltage	9-40Vdc	2-13Vdc
	Max Output Voltage	40Vdc	13Vdc
	Non-load Output Voltage	47Vdc	21Vdc
	Output Current	100-250mA	300-700mA
	Output Power	0.9W~10W	0.6W~9.1W
	Strobe Level	No-flicker percent (IEEE 1789 = 0.378%) , flicker index (IEEE 1789 = 0.001 pst = 0.005, SVM = 0.004(the test data were obtained from the dark room surface light source test)	
	Dimming Range	0~100%, LEDstart at 0.1%possible.	
	PWM Dimming Frequency	>3600Hz	
	Current Accuracy	±3%	
	Power down mode	memory function when power down	
INPUT	Dimming Interface	DALI signal interface current <2ma	
	NFC	AIDimming APP Set current	
	PUSH	/	
	Standby Power	<0.35W	
	Input Voltage Range	200-250Vac(200-250Vdc)	
	Frequency	0/50/60Hz	
	Input Current	<0.06A ac230v	
	Power Factor	PF>05C/230V ac(at full load)	
	THD	/	
	Efficency(typ.)	85%	80%
	Inrush Current	cold start21A/20US@230Vac	
	Anti Surge	L-N: 2kV	
	Leakage Current	<0.25mA/230Vac twidth=58.4us was tested at 50% Ipeak	
ENVIRONMENT	Working Temperature	ta: -20-45°C tc:85 °C	
	Working Humidity	20 ~ 95%RH, non-condensing	
	Storage Temp., Humidity	-40 ~ 80°C, 10~95%RH	
	Temp.Coefficient	±0.03%(0-50)°C	
	Vibration	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes.	
PROTECTION	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, , auto recovers.	
	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	/	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547	
	Strobe Test Standard	IEEE 1789	
OTHERS	Dimension	85×20×20mm(L×W×H)	
	Packing	Box	
	Weight(G.W.)	55g±5g	

Dimensions :



Product Label:



LED Current Selection:

1. Full-featured NFC settings.

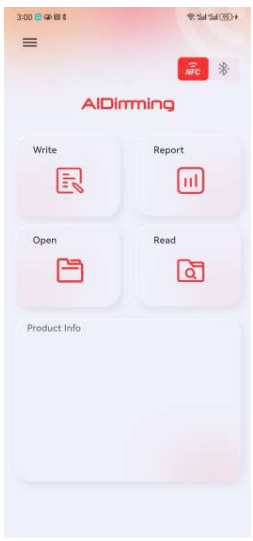
1) Download the AIDimming APP (red icon, Android, PC, apple systems) on your mobile device.

2) The AIDimming APP control interface can be selected in Chinese and English as shown in the right image.

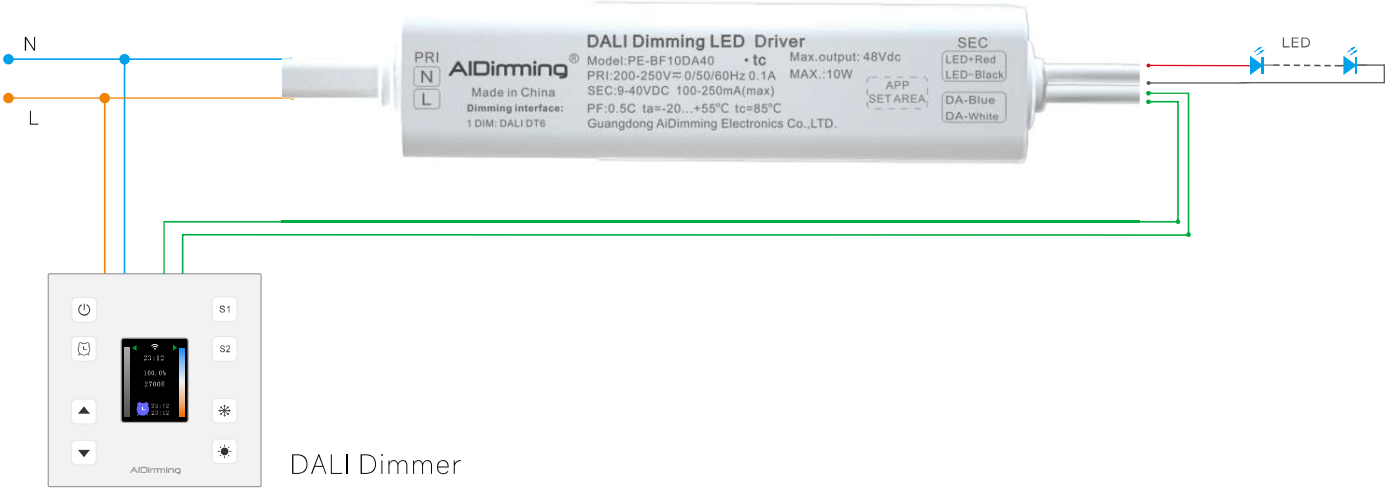
3) Turn on the NFC function on your phone, bring it close to the power NFC area, and read the power model.

4) Set the required current parameters, scenes, addresses, etc., bring it close to the power NFC area, and write the electrical parameters.

5) For more features, please enter the APP settings.



Connected application :

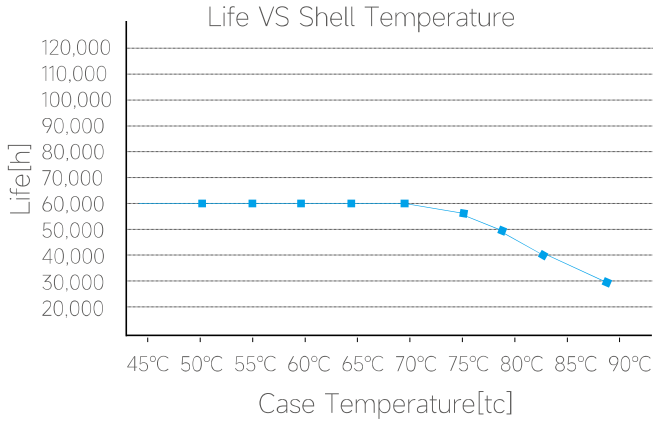


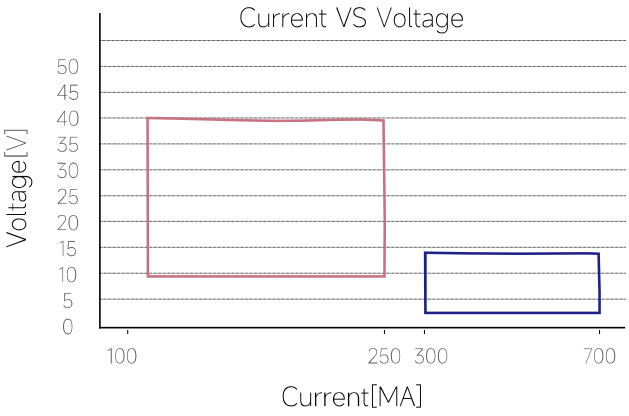
DALI Dimmer

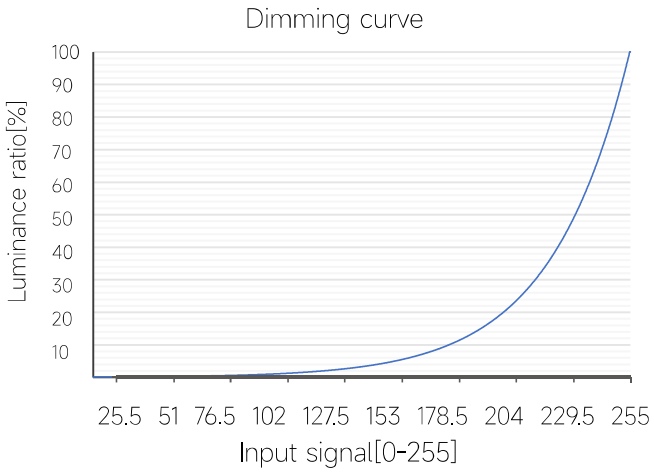
Wiring:

1. Input wiring: 2*0.5 square PVC white sheathed flat wire (VDE) brown and blue core L=150mm, stripping requires 6-7mm tin
2. Output wiring: 22AWG white sheathed round wire, L=230mm, stripping requires 6-7mm tin

Working Curve:







The use of guidance:

Unless otherwise specified, all specifications and parameters are measured at 230VAC input, rated load and 25 ℃ Ambient Temperature

**1:please pay attention to the distinction between input and out put , connect correctly, then power on

**2:please connect first the load of the DC output, open the driver after checking; in the constant current mode, if power on at open circuit, please turn off the driver 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 driver is only limited to the use of the LED lamps ,the input voltage range is AC200-250V,the heat insulation cotton and other items that obstruct the heat dissipation of the product, which conforms to the product under the specified output voltage, current range, the use environment temperature is -20-45 degrees, and the surface can not cover the conditions of the environment, this product enjoys 3 years of free warranty.

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:

1)whether or not DC output bad contact;

2)whether DC output polarity is reversed, or the LED board is welded anti;

3)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 and check as follow:

1).whether or not the parameters and actual parameters match.

2).please timely communicate with us if you have any questions in the using, we will try our best to solve the problems with you.

The abnormal conditions and the corresponding treatment methods:

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 salve unit can also be assigned to a certain group, and a slave unit can belong to different group, salve 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 lies 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.

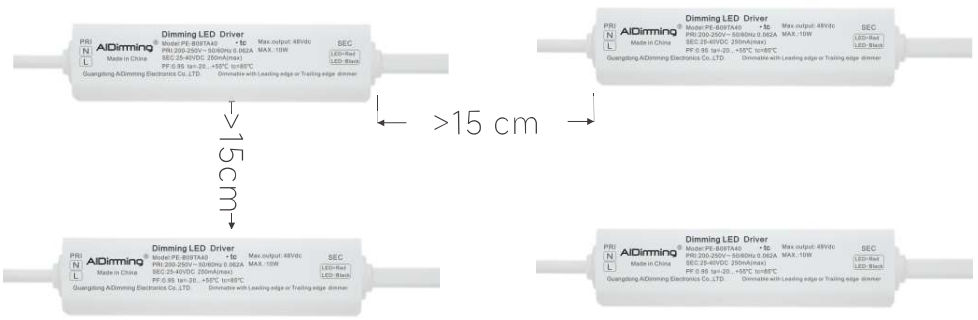
5)Transmission cable up to 300 meters, or pressure drop is no more than 2v

Installation requirements:

1.The installation environment temperature of the driver should not exceed the value of Ta at any time.

2. The surface temperature of the driver should be lower than 45℃.

3. The driver should maintain a certain distance from the heating element (such as a lamp radiator).



Do not stack products. The distance between products should be ≥ 15cm to avoid affecting product heat dissipation and service life.

Statement:

The pictures and specifications are for reference, subject to the real object.
If there is any change in the specifications, it will be notified separately.