PE-N14DCA 14.7W

PE-N20DCA 21W

5 years RoHS SELV CE Class 2

DIM | DT8 | Member | No Flicker | TUV | Multiple Current | PF>0.95 HIGH PF | η >0.85 Efficiency | Over-heat Protection | Over Load Protection | Short Circuit Protection

Features:

1. Standard DALI dimming interface.
2. DALI2 certificate, DALI member
3. Output flicker free.
4. International universal ac input voltage (100V to 250VAC) .
5. Protections: short circuit/over current/over voltage.
6. Natural cold wind , silica gel heat conduction technology.
7. DALI DT8 standard realize dimming and CT adjustment.
8. Compatible with all kinds of Dali control systems in the world.
9. Fast pressure terminal, safe and convenient.
10. Conform to the world lighting equipment safety standards.
11. Protection class II .
12. Five years warranty.

Application:

1. Led two-color light source
2. Villa intelligent lighting
3. Wireless intelligent lighting system can be accessed
4. Museum lighting
5. High end commercial lighting

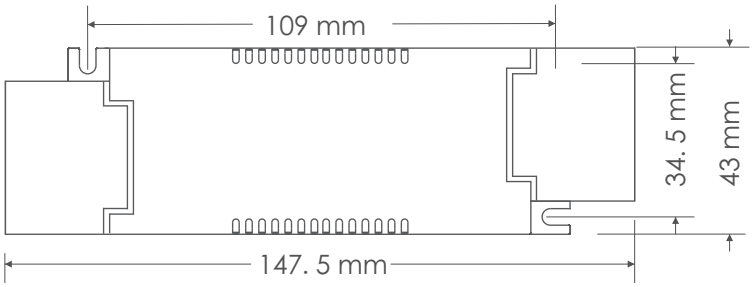
General description:

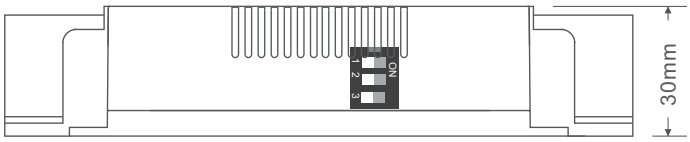
1. The standard Dali signal is used to control the brightness and color temperature. One power supply only occupies one address. The raw materials used are first-line brands, and the imported chips are super high The deep dimming design matches a variety of Dali intelligent dimming systems and KNX Protocol Intelligent Systems on the market. The color temperature and brightness can be accurately controlled according to the lamp beads The range of design is fixed, and the internal silicone heat conduction process is adopted to make the heat balance of electronic components more stable

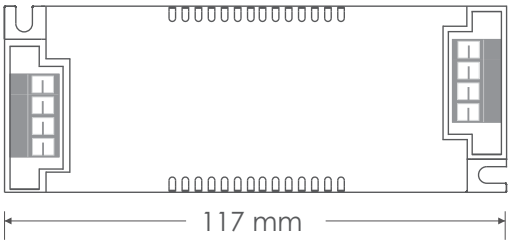
Specification:

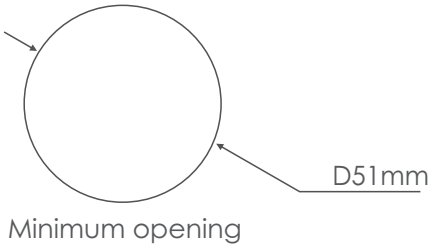
Model		PE-N14DCA42	PE-N20DCA42
OUTPUT	Output Voltage	25-42Vdc	25-42Vdc
	Max Output Voltage	42Vdc	42Vdc
	Non-load Output Voltage	53Vdc	53Vdc
	Output Current	150/180/200/250/280/300/320/350mA	250/280/300/320/350/400/450/500mA
	Output Power	3. 75W~14. 7W	5W~21W
	Strobe Level	No Flicker	
	Dimming Range	0~100%，LEDstart at 0.03%possible.	
	PWM Dimming Frequency	>3600Hz	
	Current Accuracy	±3%	
	Power down mode	memory function when power down	
INPUT	Dimming Interface	DALI (IEC62386)Signal control current < 0.1mA	
	Input Voltage Range	100-250Vac	
	Frequency	50/60Hz	
	Input Current	<0.16A ac110v	<0.25A ac110v
	Power Factor	PF>0.99/100V ac(at full load)	
	THD	230Vac@THD <10% (at full load)	
	Efficiency(typ.)	83%	85. 6%
	Inrush Current(typ.)	cold start20A@230Vac	
	Anti Surge	L-N: 2kV	
	Leakage Current	<0.25mA/230Vac	
ENVIRONMENT	Working Temperature	ta: 45°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-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	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	127.5(97)×43×30mm(L×W×H)	
	Packing	PE bag	
	Weight(G.W.)	200g±10g	

Dimensions :

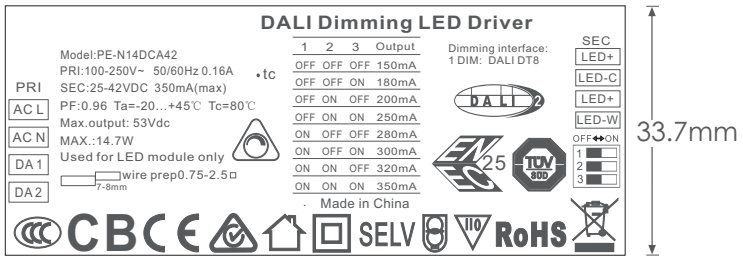


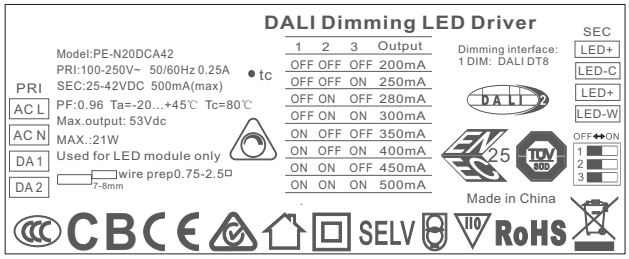






Product Label:





LED Current Selection:

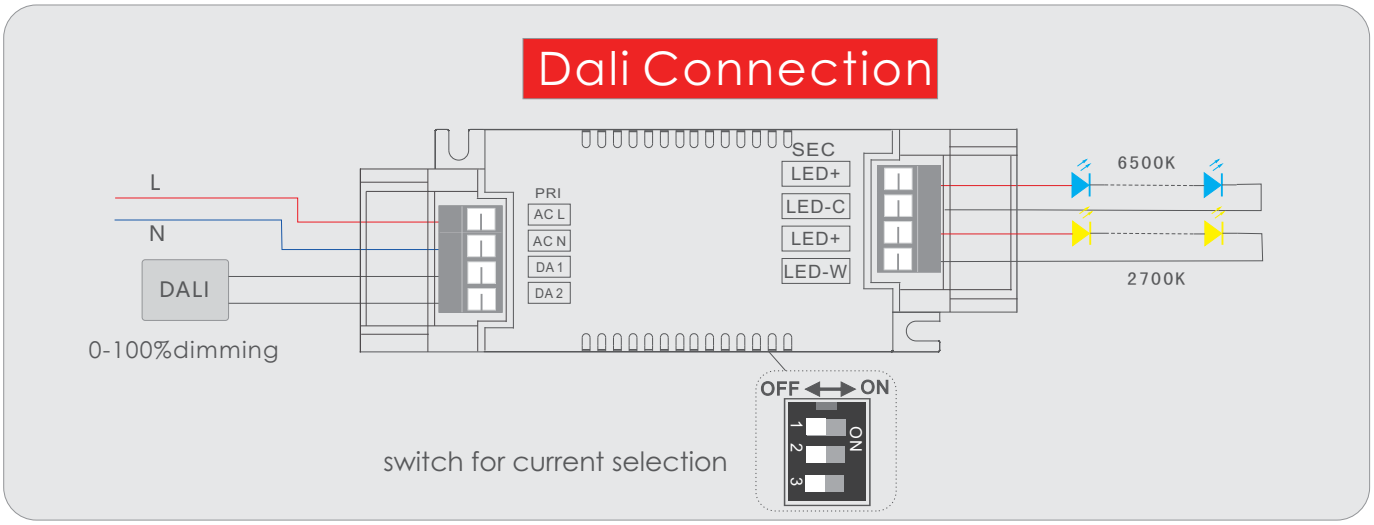
DIP switch for 8 optional currents' quick selection(see the table below).

Model	DIP Switch									
PE-N14DCA42	Output current	150mA	180mA	200mA	250mA	280mA	300mA	320mA	350mA	OFF ON
	Output voltage	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	
	Output power	3.7W-6. 3W	4.5W-7. 6W	5W-8. 4W	6.2W-10. 5W	7W-11. 7W	7.5W-12. 6W	8W-13.4W	8.7W-14.7W	
PE-N20DCA42	Output current	200mA	250mA	280mA	300mA	350mA	400mA	450mA	500mA	
	Output voltage	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	
	Output power	5W-8. 4W	6.2W-10. 5W	7W-11. 7W	7.5W-12. 6W	8.7W-14. 7W	10W-16. 8W	11.2W-18. 9W	12. 5W-21W	

After current setting by DIP switch, power off and then power on to make the new current effective.

E.g. LED 3.2V/pcs: 9-24V can power 3-7pcs LEDs in series, 9-42V can power 3-12pcs LEDs, the max quantity of LEDs in series will be subject to the actual voltage of LED.

Connection:

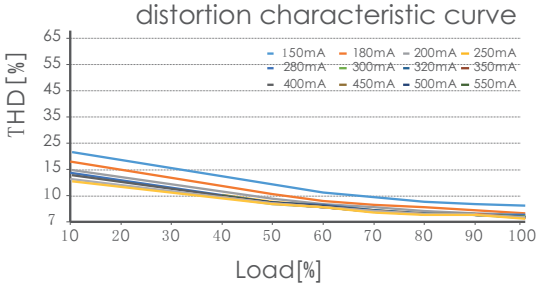


Wiring:

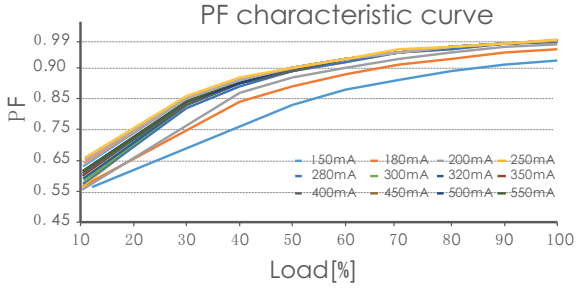
1. Input terminal wiring: suitable for wire gauge 22awg-14awg (0.5mm2 – 1.5mm2), stripping requires 9-10mm tin
2. Output terminal wiring: suitable for wire gauge 22awg-12awg (0.5mm2 – 1.5mm2), stripping requires 6-7mm tin
3. Output terminal wiring: the positive pole of the output LED is the common terminal, and the three wire led can be connected to one of the positive poles.

Relationship Diagrams:

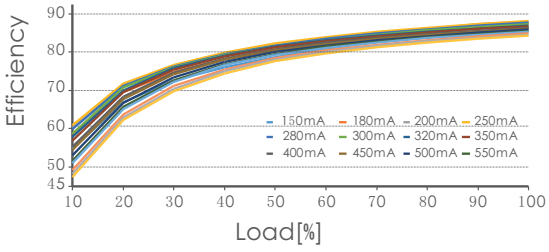
distortion characteristic curve



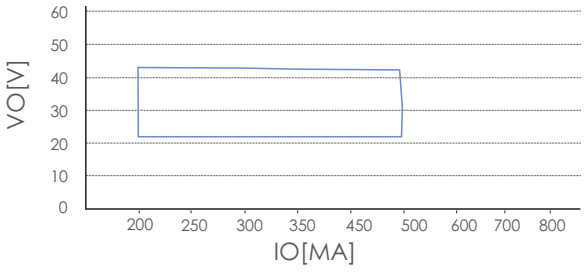
PF characteristic curve



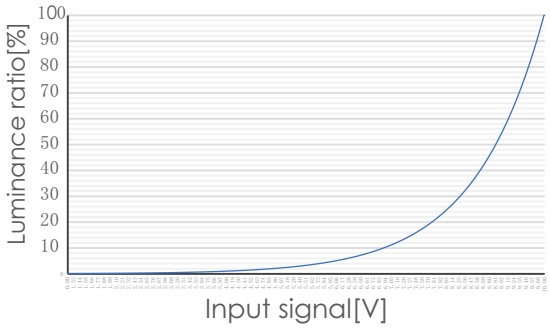
Efficiency VS Load



Current VS Voltage



Dimming curve



The use of guidance:

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

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 lime N, The output terminal connect a according to the product label, notice the positive and negative pole.

**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 AC100-250V,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 three 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.

Statement:

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

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