

PE-N30DCA 30W
PE-N45DCA 45W

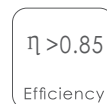
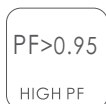
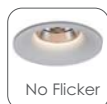
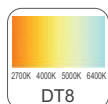


Class 2

5 年质保



RoHS SELV CE



Features:

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

General description:

DALI CT adjustment driver is one of 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-N30DCA and PE-N45DCA are use DALI DT8 CT adjustment technology, good color mixing, wide color temperature range.

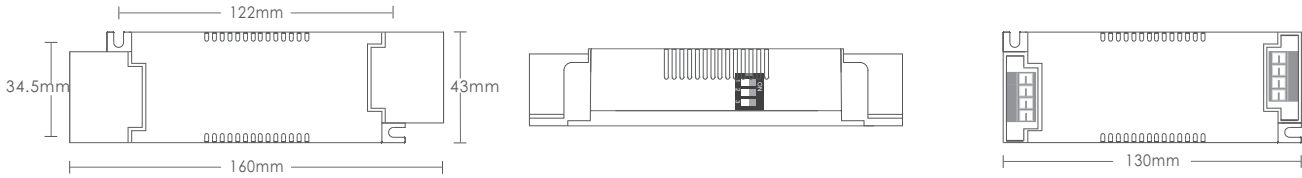
DALI use the standard DALI signal interface, it can match all DALI control systems on the market.

DALI is short for Digital Addressable Lighting Interface

Specification:

Model		PE-N30DCA42	PE-N45DCA42
OUTPUT	Output Voltage	25-42Vdc	25-42Vdc
	Max Output Voltage	42Vdc	42Vdc
	Non-load Output Voltage	53Vdc	53Vdc
	Output Current	350/400/450/500/550/600/650/700mA	700/750/800/850/900/950/1000/1050mA
	Output Power	8. 75W~29. 4W	17. 5W~44. 1W
	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	<0.33A	<0.52A ac110v
	Power Factor	PF>0.99/100Vac, at full load	PF>0.99/100Vac, at full load
	THD	230Vac@THD ≤10% (full load)	
	Efficiency(typ.)	87% AC230V full load	88.3% AC230V full load
	Inrush Current(typ.)	Cold start 20A@230Vac	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	Shut down the output if no load, auto recovers when load back to normal.	
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	160(130)×43×30mm(L×W×H)	
	Packing	Pe bag	
	Weight(G.W.)	245g±10g	

Dimensions :



Product Label:

Model: PE-N30DCA42
 PRI: 100-250V~ 50/60Hz 0.33A
 SEC: 25-42VDC 700mA(max)
 PF: 0.96 Ta=-20...+45°C Tc=80°C
 Max. output: 51Vdc
 MAX.: 29.4W
 Used for LED module only
 MAX.: 7-8mm wire prep 0.75-2.5φ

Output Table:

1	2	3	Output
OFF	OFF	OFF	350mA
OFF	OFF	ON	400mA
OFF	ON	OFF	450mA
OFF	ON	ON	500mA
ON	OFF	OFF	550mA
ON	OFF	ON	600mA
ON	ON	OFF	650mA
ON	ON	ON	700mA

Dimming Interface: 1 DIM: DALI DT8

SEC: LED+, LED-, LED+, LED-, LED-W, LED-W

AC L, AC N, DA 1, DA 2

RoHS, SELV, CBCE

Model: PE-N45DCA42
 PRI: 100-250V~ 50/60Hz 0.33A
 SEC: 25-42VDC 1050mA(max)
 PF: 0.96 Ta=-20...+45°C Tc=80°C
 Max. output: 51Vdc
 MAX.: 44.1W
 Used for LED module only
 MAX.: 7-8mm wire prep 0.75-2.5φ

Output Table:

1	2	3	Output
OFF	OFF	OFF	700mA
OFF	OFF	ON	750mA
OFF	ON	OFF	800mA
OFF	ON	ON	850mA
ON	OFF	OFF	900mA
ON	OFF	ON	950mA
ON	ON	OFF	1000mA
ON	ON	ON	1050mA

Dimming Interface: 1 DIM: DALI DT8

SEC: LED+, LED-, LED+, LED-, LED-W, LED-W

AC L, AC N, DA 1, DA 2

RoHS, SELV, CBCE

LED Current Selection:

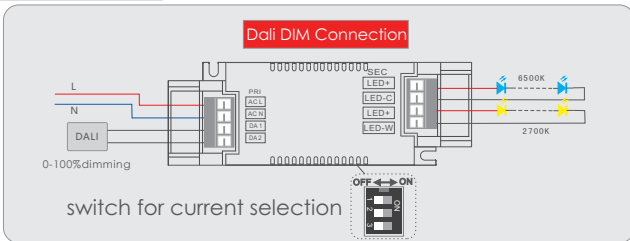
DIP switch for 8 optional currents' quick selection(see the table below).

Model	DIP Switch	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	
PE-N30DCA42	output current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	OFF ↔ ON
	output voltage	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	
	output Power	8.7W-14.7W	10W-16.8W	11.2W-18.9W	12.5W-21W	13.7W-23.1W	15W-25.2W	16.2W-27.3W	17.5W-29.4W	
PE-N45DCA42	output current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA	OFF ↔ ON
	output voltage	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	25-42V	
	output Power	17.5W-29.4W	18.7W-31.5W	20W-33.6W	21.2W-35.7W	22.5W-37.8W	23.7W-33.9W	25W-42W	26.2W-44.1W	

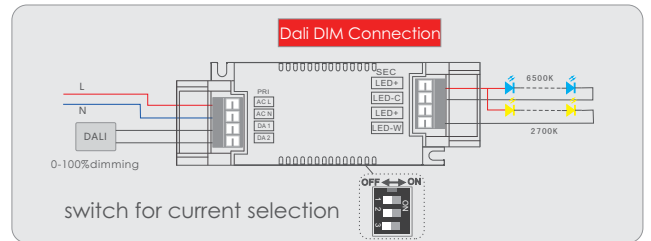
* After current setting by DIP switch, power off and then power on to make the new current effective.

* 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:



Four wire output wiring

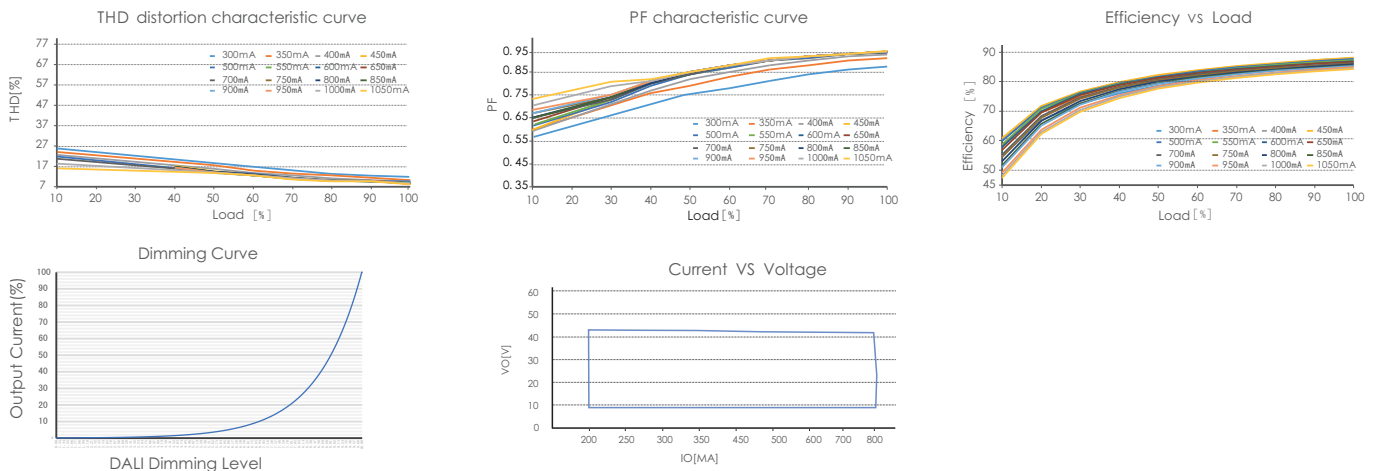


Three wire output wiring

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. The input terminal: wire gauge 22AWG-14AWG (0.5mm² - 1.5mm²) wire stripping requirement: 9-10mm.
- 3. The output terminal: wire gauge 22AWG-14AWG (0.5mm² - 1.5mm²) wire stripping requirement : 6-7mm.
- 4. Output terminal wiring: the output LED positive terminal is the common terminal, and the three wire led can be connected to one of the positive terminals.

Relationship Diagrams:



The use of guidance:

Unless otherwise specified, all specifications and parameters are measured at 230VAC input, rated load and 25 °C 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 line N, The output terminal connect according to the product label, notice the positive and negative pole.

**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 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 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