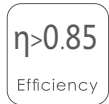


PE10DA 14.7W



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/overcurrent
- Natural cold wind
- Big terminal locked by screw
- Suitable for LED home lighting and commercial lighting
- Safe no load protection device
- Economic and convenient installation
- Conform to the world lighting equipment safety standards
- Protection class II
- Three years warranty

RoHS SELV  Class 2

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.

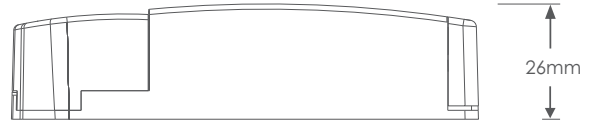
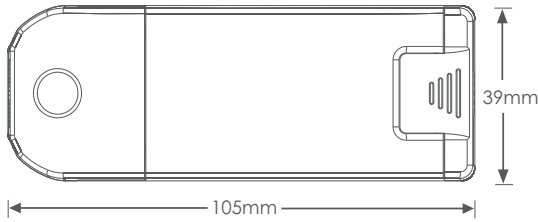
DALI Dimming LED Driver use standard DALI signal interface, can match with all DALI control system in the market.

DALI full name: Digital Addressable Lighting Interface.

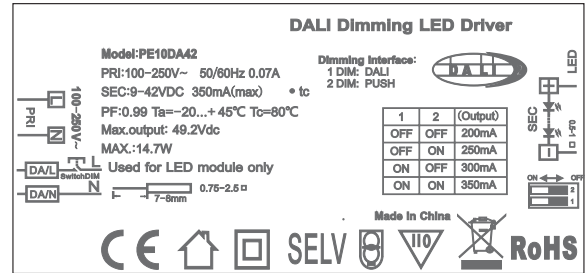
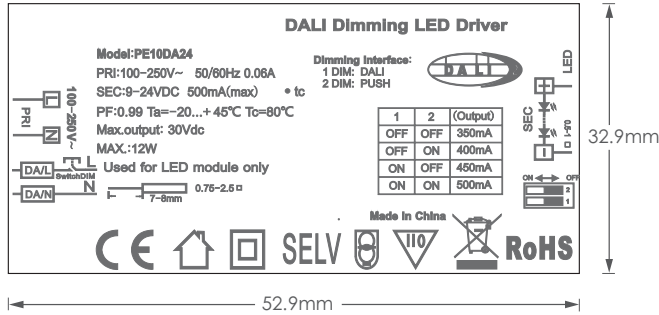
Specification:

Model		PE10DA24	PE10DA42	PE10DA09
OUTPUT	Output Voltage	9-24Vdc	9-42Vdc	2-9Vdc
	Non-load Output Voltage	30Vdc	49.5Vdc	12Vdc
	Output Current	350/400/450/500mA	200/250/300/350mA	400/500/600/700mA
	Output Power	2.7W~12W	1.8W~14.7W	1W~6.3W
	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 DIM		
	Input Voltage Range	100-250Vac		
	Frequency	50/60Hz		
	Input Current	<0.06A	<0.07A	<0.07A
	Power Factor	PF>0.99/100Vac, at full load	PF>0.99/100Vac, at full load	PF>0.9/100Vac, at full load
	THD	230Vac@THD ≤15% (full load)		
	Efficiency(typ.)	82.3%	85.6%	83%
	Inrush Current(typ.)	Cold start 0.6A@230Vac	Cold start 0.7A@230Vac	Cold start 0.7A@230Vac
	Anti Surge	L-N: 2kV		
Leakage Current	<0.98mA/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 automatically if short circuit occurs, auto recovers.		
SAFETY	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		
	Strobe Test Standard	IEEE 1789		
OTHERS	Dimension	105×39×26mm(L*W*H)		
	Packing	106×40×26.5mm(L*W*H)		
	Weight(G.W.)	68g±10g		

Dimensions :



Product Label:



LED Current Selection:

DIP switch for 4 optional currents' quick selection(see the table below).

Model	DIP Switch	Output Current				Model	DIP Switch	Output Current			
		350mA	400mA	450mA	500mA			200mA	250mA	300mA	350mA
PE10DA24		350mA	400mA	450mA	500mA	PE10DA42		200mA	250mA	300mA	350mA
		9-24V	9-24V	9-24V	9-24V			9-42V	9-42V	9-42V	9-42V
		3.15W-8.5W	3.6W-9.6W	4.05W-10.8W	4.5W-12W			1.8W-8.4W	2.25W-10.5W	2.7W-12.6W	3.15W-14.7W
PE10DA09		400mA	500mA	600mA	700mA						
		2-9V	2-9V	2-9V	2-9V						
		1W-3.6W	1W-4.5W	1.2W-5.4W	1.4W-6.3W						

* 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.

Wiring Diagram:



Push Dimming:

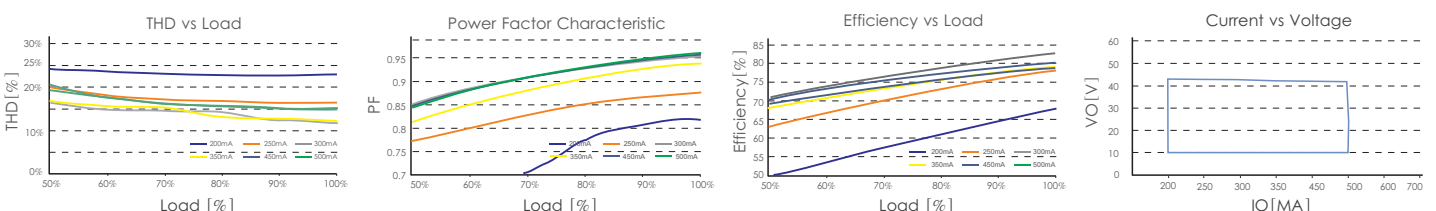


On/off control: Short press.
 Stepless dimming: Long press.
 With every other long press, the light level goes to the opposite direction.
 Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

Wiring:

The input terminal: wire gauge 22AWG-14AWG (0.315mm² - 2.06mm²) wire stripping requirement: 9-10mm
 The output terminal: wire gauge 22AWG-12AWG (0.315mm² - 3.15mm²) wire stripping requirement : 6-7mm.

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.

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.

Statement:

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