

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
- 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
- Five years warranty





Member



















General description:

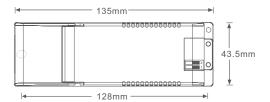
DALI Dimming LED Driver is one of the constant current dimming LED driver developed by my company with high power factor, high efficiency, high precision, the use of the efficient stable low loss switch control chip and the high performance components makes it with low noise, energy saving, environmental protection, 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:

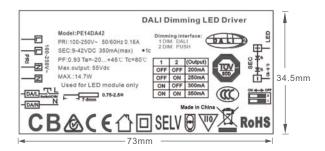
Model		PE14DA24	PE14DA42	PE20DA24	PE20DA42						
	Output Voltage	9-24Vdc	9-42Vdc	9-24Vdc	9-42Vdc						
	Max Output Voltage	30Vdc	50Vdc	30Vdc	50Vdc						
	Non-load Output Voltage	0Vdc	0Vdc	0Vdc	0Vdc						
	Output Current	350/400/450/500mA	200/250/300/350mA	650/700/750/800mA	350/400/450/500mA						
OUTPUT	Output Power	2.7W~12W	1.8W~14.7W	5. 85W~19. 2W	3. 15W~21W						
	Strobe Level	No Flicker									
	Dimming Range	0~100%, LEDstart at 0.03%p	possible.								
	PWM Dimming Frequency	≤3600Hz									
	Current Accuracy	±3%									
	Ripple & Noise	≤2V (No dimming)									
	Dimming Interface	DALI (IEC62386), Push DIM									
	Input Voltage Range	100-250Vac									
	Frequency	50/60Hz									
	Input Current	<0.13A	<0.16A	<0.27A	<0.27A						
	Power Factor	PF>0.95/100Vac, at full load	PF>0.95/100V ac, at full load	PF>0.95/100V ac, at full load	PF>0.95/100Vac, at full load						
INPUT	THD	230Vac@THD ≤15% (full load)									
	Efficiency(typ.)	80.5%	83%	83%	85%						
	Inrush Current(typ.)	Cold start 1.78A@230Vac	Cold start 2.34A@230Vac	Cold start 2.43A@230Vac	Cold start 2.43A@230Vac						
	Anti Surge	L-N: 2kV									
	Leakage Current	<0.25mA/230Vac									
	Working Temperature	ta: 45°C tc: 80°C									
	Working Humidity	20 ~ 95%RH, non-condensing									
ENVIRONMENT	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.									
	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.									
PROTECTION	Short Circuit Protection	Shut down automatically if short circuit occurs, auto recovers.									
	Non-load Protection	Output Constant Voltage.									
	Withstand Voltage	I/P-O/P: 3750Vac									
	Isolation Resistance	I/P-O/P: 100MΩ/500VDC/25°C/70%RH									
SAFETY &	Safety Standards	IEC/EN61347-1, IEC/EN61347-2-13									
EMC	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	IEEE 1789								
	Dimension	135×43.5×26.5mm(L×W×H)									
OTHERS	Packing	PEbag									
	Weight(G.W.)	120g±10g									

Dimensions :





Product Label:





LED Current Selection:

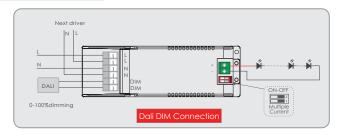
DIP switch for 4 optional currents' quick selection (see the table below).

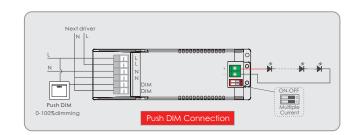
PE14DA24	DIP Switch	2	2	2	2			2	2	2	2	
	Output Current	350mA	400mA	450mA	500mA		PE14DA42	200mA	250mA	300mA	350mA	ON-OFF
	Output Voltage	9-24V	9-24V	9-24V	9-24V	$\ $	FE14DA42	9-42V	9-42V	9-42V	9-42V	2
	Output Power	3.15W-8.5W	3.6W-9.6W	4.05W-10.8W	4.5W-12W			1.8W-8.4W	2.25W-10.5W	2.7W-12.6W	3.15W-14.7W	

PE20DA24	DIP Switch	2	2	2	2		PE20DA42	2	2	2	2	
	Output Current	650mA	700mA	750mA	800mA			350mA	400mA	450mA	500mA	ON-OFF
	Output Voltage	9-24V	9-24V	9-24V	9-24V			9-42V	9-42V	9-42V	9-42V	1
	Output Power	5.85W-15.6W	6.3W-16.8W	6.75W-18W	7.2W-19.2W			3.15W-14.7W	3.6W-16.8W	4.05W-18.9W	4.5W-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.

Wiring Diagram:





Push Dimming:



On/off control: Short press.

Stepless dimming: Long press.

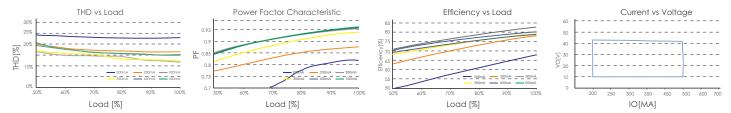
With every other long press, the light level goes to the opposite direction.

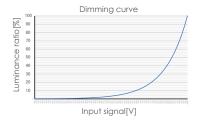
Dimming memory: Brightness will be the same as previously adjusted when turning off and on again.

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:

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 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

- a) Asynchronous serial communication
- b) 1200 Baud rate, using the Manchester encoding format
- c) Two lines differential signal.
- d) The high level when differential voltage is larger than 9.5v.
- e) The low level when differential voltage is less than 6.5v.
- f) The master unit controls communication process.
- g) One DALI bus can connect with 64 slave units.
- h) Each slave unit can be individually addressed.

DALI Electrical specification

DALI bus is high level in idle state.

The method that the slave unit control the bus: