

Katalogový list produktu

DALI zdroj pro LED panel 40W



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
- 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

5 years RoHS SELV Class 2



General description:

DALI Dimming LED Driver is a constant current LED driver developed by our company, featuring a high power factor, high efficiency, and high precision. The use of an efficient, stable, low-loss switch control chip and high-performance components ensures low noise, a long lifespan, and other superior characteristics.

The DALI Dimming LED Driver uses a standard DALI signal interface and is compatible with all DALI control systems on the market. DALI stands for: Digital Addressable Lighting Interface.

Specification:

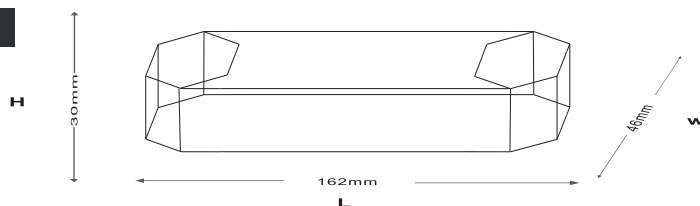
Model		DALI 40W	DALI 48W
OUTPUT	Output Voltage	25-42VDC	25-42VDC
	Max Output Voltage	45VDC	45VDC
	Non-load Output Voltage	45VDC	45VDC
	Output Current	1000mA	1100mA
	Output Power	40W	48W
	Strobe Level	No Flicker	
	Dimming Range	0~100%, LEDstart at 0.03%possible.	
	PWM Dimming Frequency	≤3600Hz	
	Current Accuracy	±3%	
	Ripple & Noise	≤ 2V (No dimming)	
INPUT	Dimming Interface	(IEC62386), Push DIM	
	Input Voltage Range	90-250Vac	
	Frequency	50/60Hz	
	Input Current	<0.1A	<0.1A
	Power factor	PF>0.90/100Vac, at full load	PF>0.90/100Vac, at full load
	THD	230Vac@THD ≤ 15% (full load)	
	Efficiency(typ.)	82%	81,5%
	Inrush Current(typ.)	Cold start 1.78A@230Vac	Cold start 2.34A@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.	
	Output over-current protection	Constant current limit,there is no possibility of overcurrent.	
	Working Humidity	IP20	
Safe	Safety Standards	EN61347-1, EN61347-2-13	
Life	MTBF	5 years	
Others	PCB board size	135×38×25mm(L×W×H)	
	Enclosure size	162×46×30mm(L×W×H)	

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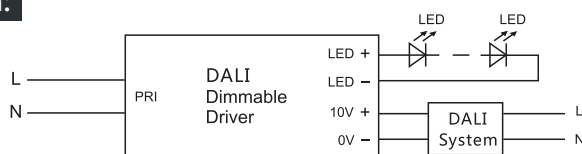
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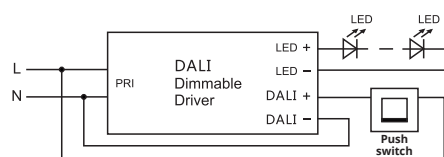
Dimensions:



Wiring Diagram:



Push Dimming:



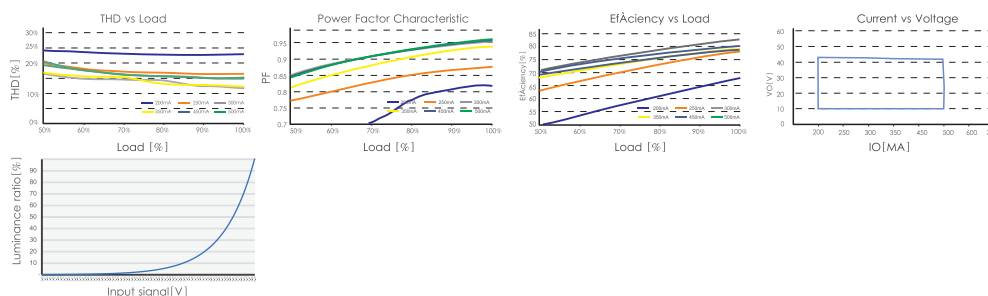
On/off control: Short press.

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.

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 DC 9-42V, 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 condition 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:

- Whether or not DC output bad contact;
- Whether DC output polarity is reversed, or the LED board is welded anti;
- 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:

- overload, under load.
- 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.

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 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

- Asynchronous serial communication
- 1200 Baud rate, using the Manchester encoding format
- Two lines differential signal.
- The high level when differential voltage is larger than 9.5v.
- The low level when differential voltage is less than 6.5v.
- The master unit controls communication process.
- One DALI bus can connect with 64 slave units.
- 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 :