

# DA2

## DAI 2 Channel Constant Voltage LED Dimmer

### Features

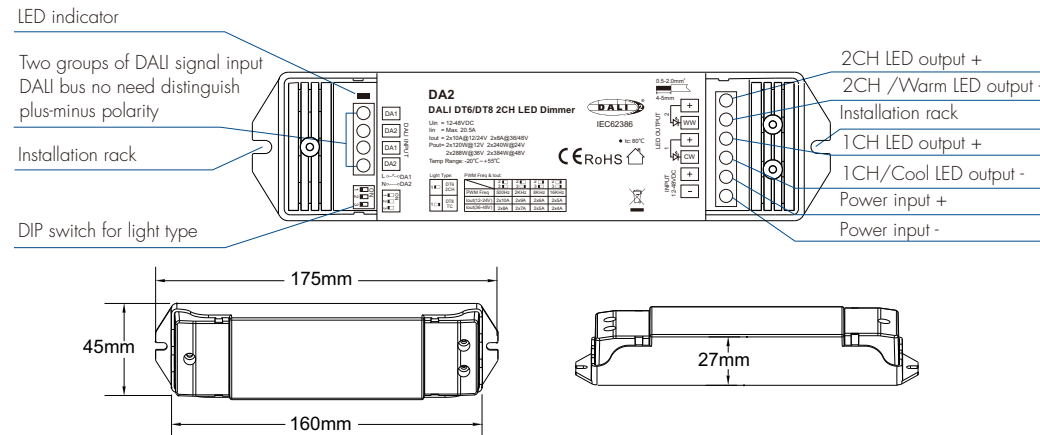
- DALI 2 channel constant voltage LED Dimmer, maximum output current 10A per channel.
- 2/1 DALI address, DIP switch set 2 kinds of light type: DT6 dimming or DT8-TC color temperature.
- DALI-2 certified, in accordance with DALI standard protocol IEC 62386-102, 207,209and in compliance with DALI products from other international incorporation.
- DALI address will be automatically assigned by DALI master.
- PWM digital dimming, standard DALI logarithmic dimming curve.
- DIP switch set 4 kinds of PWM frequency: 500Hz, 2KHz, 8KHz, 16KHz.
- Connect with external AC push switch to achieve on/off, adjustment of brightness and color temperature function.
- Over-load / Short circuit protection, recover automatically.



### Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-48VDC	Input signal	DALI + AC Push Dim	EMC standard	EN IEC 55015 EN IEC 61547
Input current	20.5A	Dimming range	0-100%	Safety standard	EN 61347-1/-2 EN 62493
Output voltage	12-48VDC	Dimming curve	Logarithmic	Certification	DALI-2 CE RoHS
Output current	2x10A@12/24V 2x8A@36/48V	PWM frequency	500Hz/2KHz /8KHz/16KHz	Warranty	5 years
Output power	2x120W@12V 2x240W@24V 2x288W@36V 2x384W@48V	Environment		Protection	Over-load Short circuit Reverse polarity
Output type	Constant voltage	Operation temperature	Ta: -20°C ~ +55°C		
		Case temperature (Max.)	Tc: +80°C		
		IP rating	IP20		

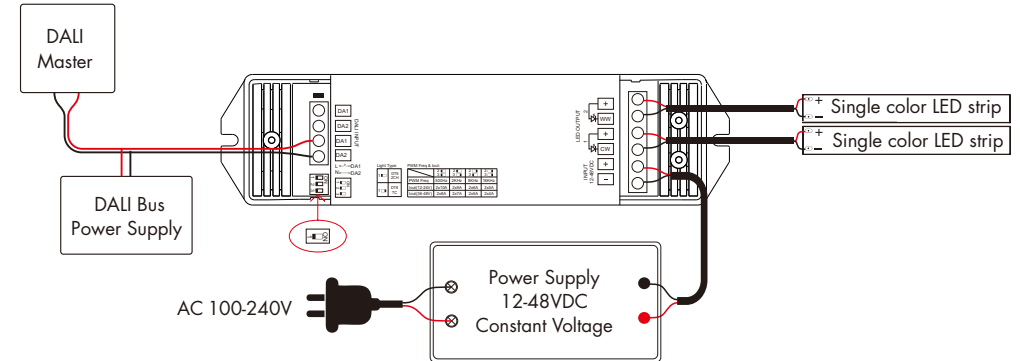
### Mechanical Structures and Installations



## DALI

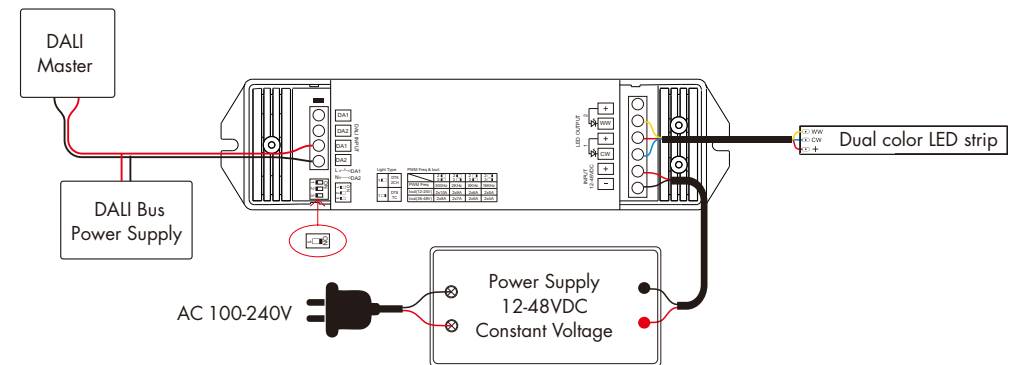
### Wiring Diagram

- DA2 for single color(DIP switch 1 set to DT6 )

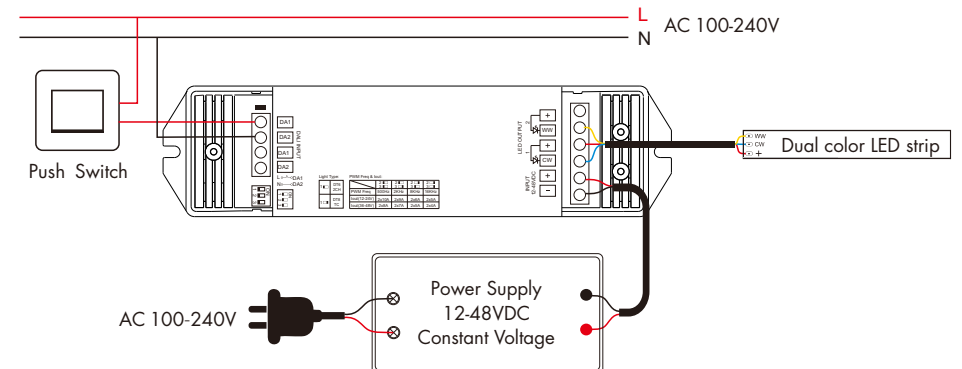


Note: When two DT6 addresses are used to control the color temperature light, channel 1 is connected to the cool white LED strip, and Channel 2 is connected to the warm white LED strip.

- DA2 for dual color (DIP switch 1 set to DT8 )



- DA2 connect with AC push switch



## DALI Control

DIP switch 1 set DT6/DT8 mode:

- DT6 2CH mode: 2 DALI address, 2 channel output;
- DT8 TC mode: 1 DALI address, 2 channel output.

DALI address is assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.





## Push DIM

- **Short press:** Turn on/off the light.
- **Long press (1-6s):** Step-less dimming, dimming range 1%-100%.  
With every other long press, the light level goes to the opposite direction.
- **Double click:** Switch between three levels color temperature (warm white, neutral white, cool white) in sequence.  
At the same time, enter the state of long-press to adjust color temperature.  
After 5s of no operation, it will automatically exit color temperature adjustment state.

**Note:** When two DT6 addresses are used to control the color temperature light, the two channels need to be respectively connected to the cool white LED strip and the warm white LED strip.

## PWM Frequency Setting

DIP switch 2 and 3 set four output PWM frequencies: 500Hz, 2kHz, 8kHz or 16kHz.  
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera (No flickers for video).

	 2 3	 2 3	 2 3	 2 3
PWM Freq	500Hz	2KHz	8KHz	16KHz
Iout (12-24V)	10A	9A	6A	5A
Iout (36-48V)	8A	7A	5A	4A

## Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.