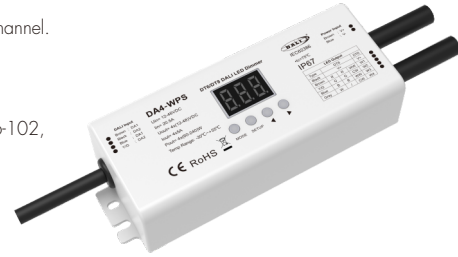


DA4-WPS

Waterproof 4 Channel Constant Voltage DALI LED Dimmer

Features

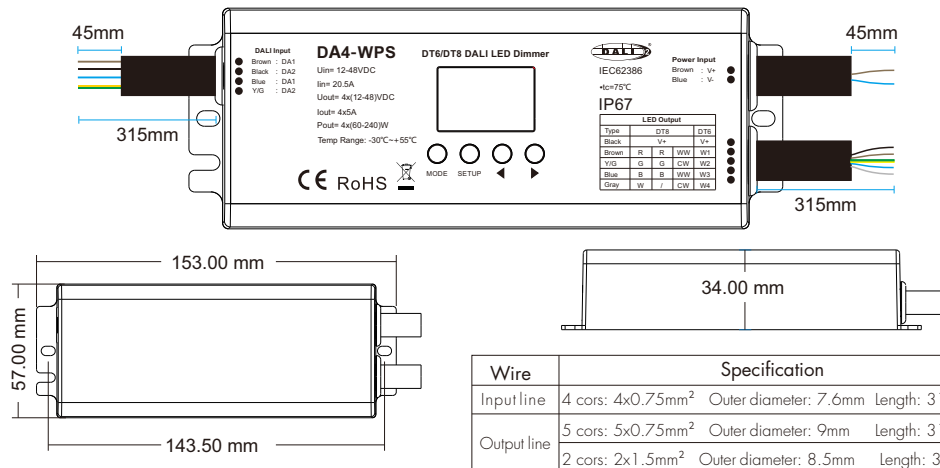
- 4 channel constant voltage DALI LED Dimmer with digital display, 5A per channel.
- DT6 dimming or DT8-TC color temperature or DT8-RGB or DT8-RGBW light type selectable.
- For DT6 dimming, support 1-4 DALI address, 4 channel work separately.
- DALI-2 certified, in accordance with DALI standard protocol IEC 62386-102, IEC 62386-207, IEC 62386-209 and in compliance with DALI products from other international incorporation.
- DALI address can be manually assigned and shown in digital display or automatically assigned by DALI master.
- PWM digital dimming, standard DALI logarithmic dimming curve.
- PWM frequency 1000/2000/4000/8000/16000Hz selectable.
- With fast self-testing function.
- Over-heat / Short circuit protection, recover automatically.



Technical Parameters

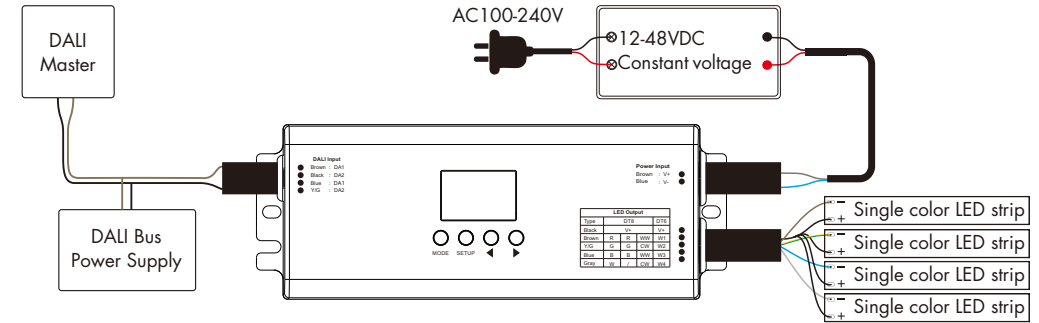
Input and Output		Dimming Data		Safety and EMC	
Input voltage	12-48VDC	Input signal	DALI	EMC standard	EN IEC 55015/ EN IEC 61547
Input current	20.5A	Dimming range	0-100%		
Output voltage	4x (12-48)VDC	Dimming curve	Logarithmic	Safety standard	EN 61347-1/-2
Output current	4x5A@12/24V 4x3A@36/48V	PWM Frequency	1000/2000/4000/ 8000/16000Hz	Certification	CE RoHS DALI-2
Output power	4x60W@12V 4x120W@24V 4x108W@36V 4x144W@48V	Environment		Package	
Output type	Constant current	Operation temperature	Ta: -30℃ ~ +55℃	Size	L165 x W98 x H72mm
Warranty and Protection		Case temperature (Max.)	Tc: +75℃	Gross weight	0.492kg
Warranty	5 years	IP rating	IP67		
Protection	Over-heat, Short circuit				

Mechanical Structures and Installations

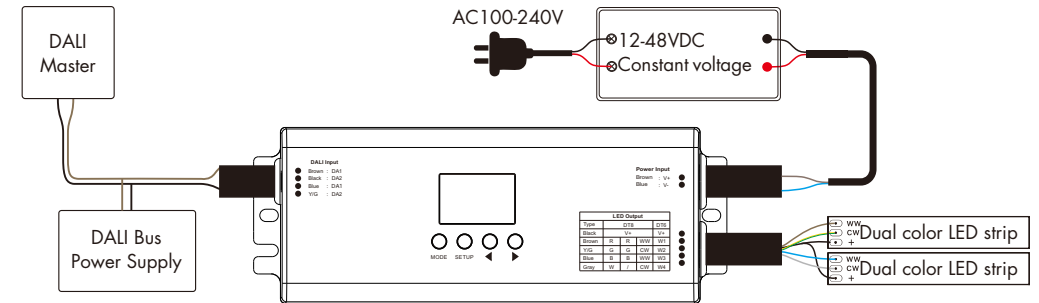


Wiring Diagram

- DA4-WPS for single color dimming ("1CH/2CH/3CH/4CH")

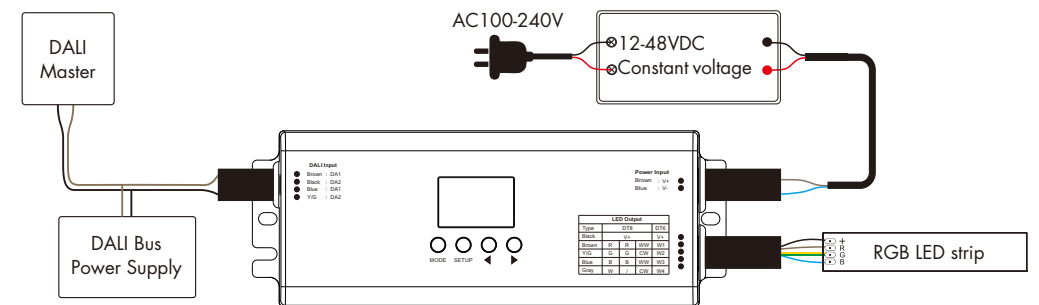


- DA4-WPS for dual color dimming("C-2")



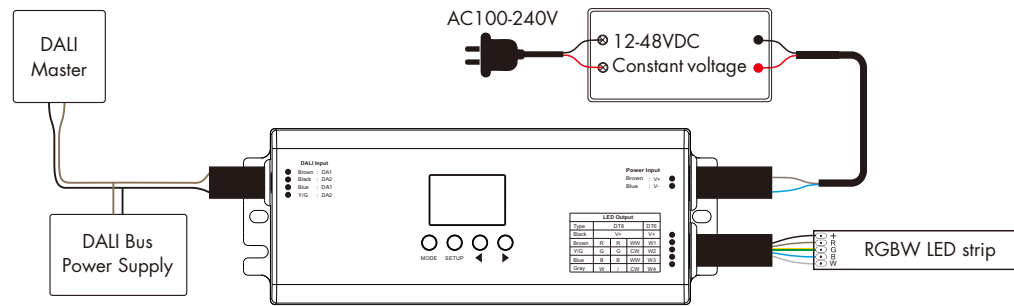
Note: The 3/4 LED channel output is same as 1/2 LED channel.

- DA4-WPS for RGB dimming("C-3")



Note: The 4th LED channel no output.

● DA4-WPS for RGBW dimming("C-4")



Operation

System parameter setting

- Short press the MODE key, enter system parameters setting state: DALI address, light type, PWM frequency.
- Short press the MODE key, switch three setting items.
- The setting is completed or timeout for 10 seconds, exit system parameter setting state.

Setting the light type

- When using it for the first time, please set the light type according to the application.
- When short press MODE key to enter the light type setting, then short press SETUP key to set the light type, the digital display flashes.
- Short press the ◀ or ▶ key to switch the single color ("1CH/2CH/3CH/4CH"), dual color ("C-2"), RGB ("C-3") or RGBW ("C-4") light type.
- Short press the MODE key or timeout for 10 seconds to exit the light type setting.

Light type setting instructions:

- When set "1CH" type, DT6 dimming, the dimmer occupy 1 DALI address, CH1, CH2, CH3, CH4 will be the same DALI address, 4-channel output is the same.
- When set "2CH" type, DT6 dimming, the dimmer occupy 2 DALI address, CH1, CH3 will be same DALI address A, CH2, CH4 will be same DALI address A+1.
- When set "3CH" type, DT6 dimming, the dimmer occupy 3 DALI address, CH1 will be DALI address A, CH2 will be DALI address A+1, CH3 will be DALI address A+2, CH4 no DALI address and no output.
- When set "4CH" type, DT6 dimming, the dimmer occupy 4 DALI address, CH1 will be DALI address A, CH2 will be DALI address A+1, CH3 will be DALI address A+2, CH4 will be DALI address A+3.
- When set "C-2" type, DT8-TC dimming, the dimmer occupy 1 DALI address, CH1 and CH3 synchronized output WW (warm white), CH2 and CH4 synchronized output CW (cool white).
- When set "C-3" type, DT8-RGB dimming, the dimmer occupy 1 DALI address, the 4th channel does not output.
- When set "C-4" type, DT8-RGBW dimming, the dimmer occupy 1 DALI address, 4 channels are output independently.

1CH

DT6, 1CH

2CH

DT6, 2CH

3CH

DT6, 3CH

4CH

DT6, 4CH

C-2

DT8-TC

C-3

DT8-RGB

C-4

DT8-RGBW

For example, the start DALI address is 32:

When set "1CH" type, the dimmer occupy 1 DALI address and address is 32.

When set "2CH" type, the dimmer occupy 2 DALI addresses and address is 32,33.

When set "3CH" type, the dimmer occupy 3 DALI addresses and address is 32,33,34.

When set "4CH" type, the dimmer occupy 4 DALI addresses and address is 32,33,34,35.

When set "C-2" type, the dimmer occupy 1 DALI address and address is 32.

When set "C-3" type, the dimmer occupy 1 DALI address and address is 32.

When set "C-4" type, the dimmer occupy 1 DALI address and address is 32.

Set DALI Address via buttons

- When short press MODE key to enter DALI address setting("A00-AFF"), then short press ◀ or ▶ key, prepare for set the start DALI address, the digital display flashes, then press ◀ or ▶ key to set the start DALI address.
- Short press MODE key or timeout 10s, quit start DALI address setting.
- The start DALI address can be manually assigned from 00-63-FF.
- By factory defaults, no DALI address is assigned for the dimmer, and digital display shows "AFF".

DALI address assigned by DALI masters

- DALI address can also be assigned by DALI Master controller automatically.
- Please refer to user manuals of compatible DALI Masters for specific operations.
- The digital display will show "AAU" When the DALI master is assigning address.
- After address is assigned, the digital display will show the DALI address "Axx", xx is from 00 to 63.
- For the DT6 2/3/4 channel dimming type, the dimmer occupies 2/3/4 DALI addresses, use the DALI master assigning address may result in discontinuous addresses, then the digital display will show the DALI start address "Uxx".

Set PWM frequency

- When short press MODE key to enter PWM frequency setting("Fxx"), then short press the SETUP key to set the PWM frequency, the digital display flashes.
- Short press ◀ or ▶ key to switch between 1000Hz("F10"), 2000Hz("F20"), 4000Hz("F40"), 8000Hz("F80") or 16000Hz("FA0"). Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera (No flickers for video). When PWM frequency > 8000Hz, it is necessary to reduce the output current per channel (4x4A@12-48V at 8000Hz; and 4x3A@12-48V at 16000Hz).
- Short press MODE key or timeout 10s, quit PWM frequency setting.

Restore factory default parameter

- Long press ◀ and ▶ key for 2s, restore factory default parameter, display "RES".
- Factory default parameter: no DALI address is assigned, DT6 four channel dimming, PWM frequency is 2000Hz.
- Long press MODE & ▶ key for 2s, enter fast self-testing, the four output channels will be on orderly then all on.

Safety & Warnings

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