

4 Channel Constant Current LED DALI Dimmer

Model No.: DA4-CM(150-500mA) / DA4-CM(350-1200mA)

1 Address/4 Channel/DT8/Constant current/PWM dimming /Numeric display

Features

- 4 channel constant current DALI LED Dimmer with digital display, 150-500mA or 350-1200mA per channel.
- 1 DALI address, DT6 dimming or DT8-TC color temperature or DT8-RGB or DT8-RGBW selectable.
- 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 1000/2000/4000/8000Hz selectable.
- Over-heat / Short circuit protection, recover automatically.
- With fast self-testing function.



DA4-CM(150-500mA)



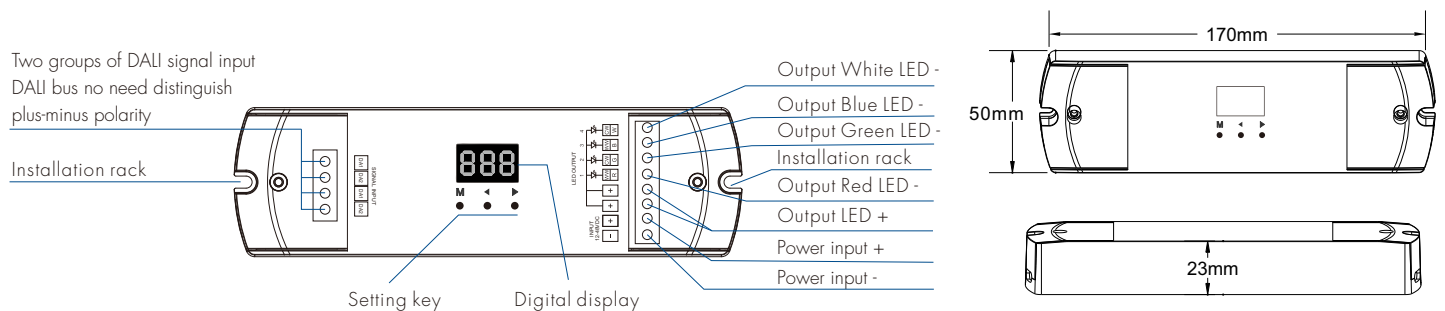
DA4-CM(350-1200mA)

CE RoHS

Technical Parameters

Input and Output		Dimming data		Warranty and Protection	
Input voltage	12-48VDC	Input signal	DALI	Warranty	5 years
Output voltage	4 x (3-45)VDC	Dimming range	0-100%	Protection	Reverse Polarity
Output current	4CH, 150-500mA or 350-1200mA/CH	Dimming curve	Logarithmic		Over-heat
Output power	4 x (0.45-22.5)W (150-500mA) 4 x (1.05-54)W (350-1200mA)	PWM Frequency	4000Hz (default)	Short circuit	
Output type	Constant current	Package		Environment	
		Size	L175x W54 x H27mm	Operation temperature	Ta: -30°C ~ +55°C
		Gross weight	0.131kg	Case temperature (Max.)	Ta: +80°C
				IP rating	IP20

Mechanical Structures and Installations

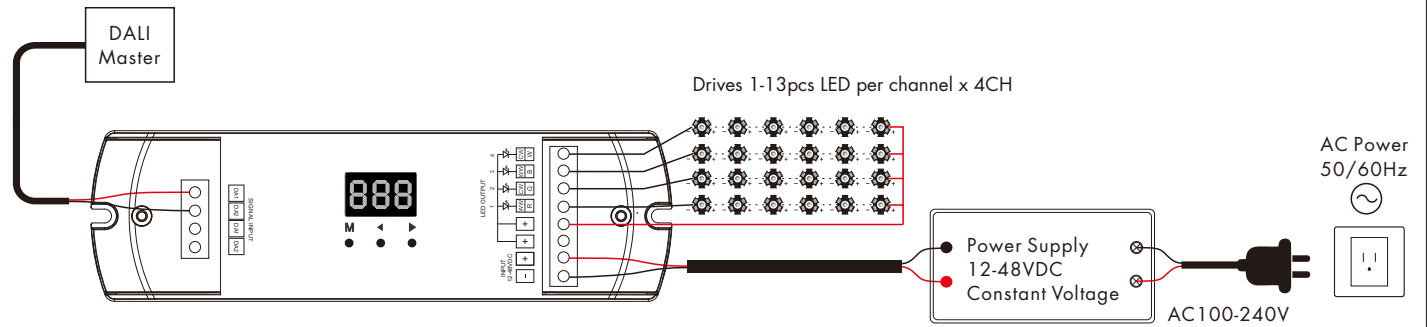


LED Current Selection

DA4-CM (150-500mA)	Output Current	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA
	Output Voltage	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V
	Output Power/CH	0.45-6.75W	0.6-9W	0.75-11.25W	0.9-13.5W	1.05-15.75W	1.2-18W	1.35-20.25W	1.5-22.5W
DA4-CM (350-1200mA)	Output Current	350mA	500mA	600mA	700mA	800mA	900mA	1050mA	1200mA
	Output Voltage	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V
	Output Power/CH	1.05-15.75W	1.5-22.5W	1.8-27W	2.1-31.5W	2.4-36W	2.7-40.5W	3.15-47.25W	3.6-54W

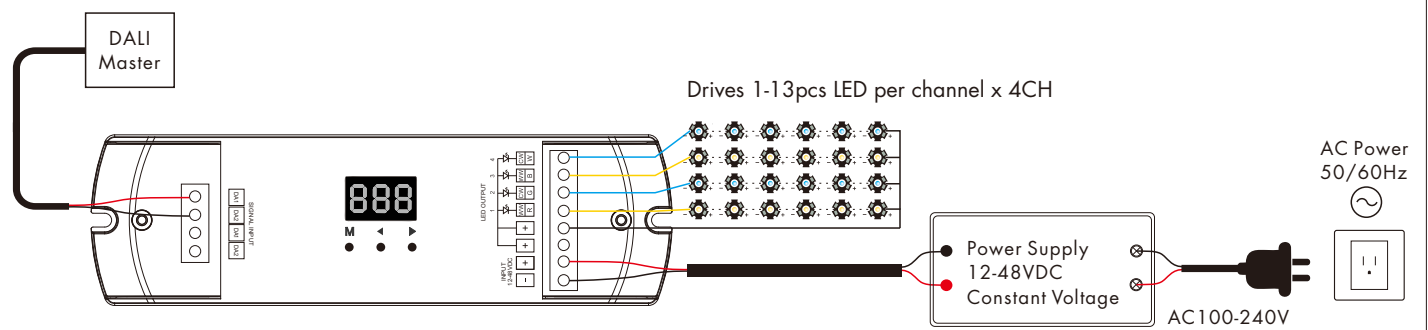
Wiring Diagram

• DA4-CM for single color (C-1)



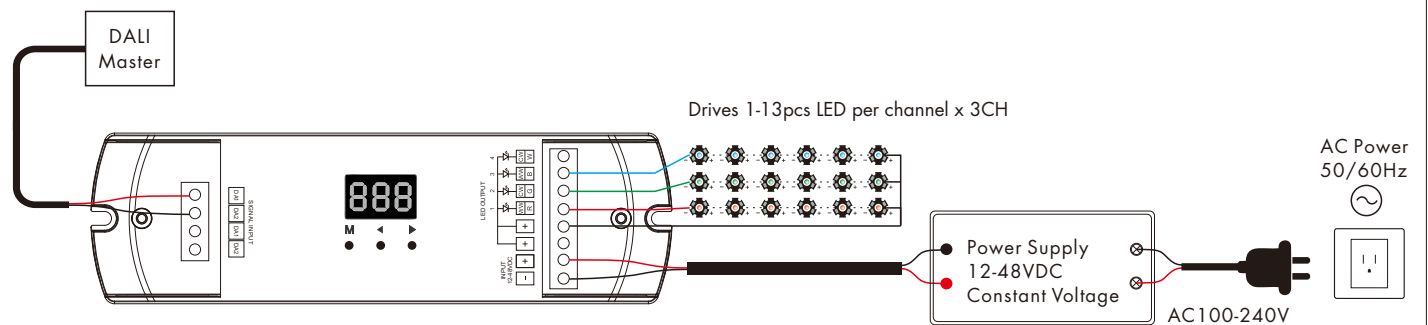
Note: The four output LED channels output is same.

• DA4-CM for dual color (C-2)



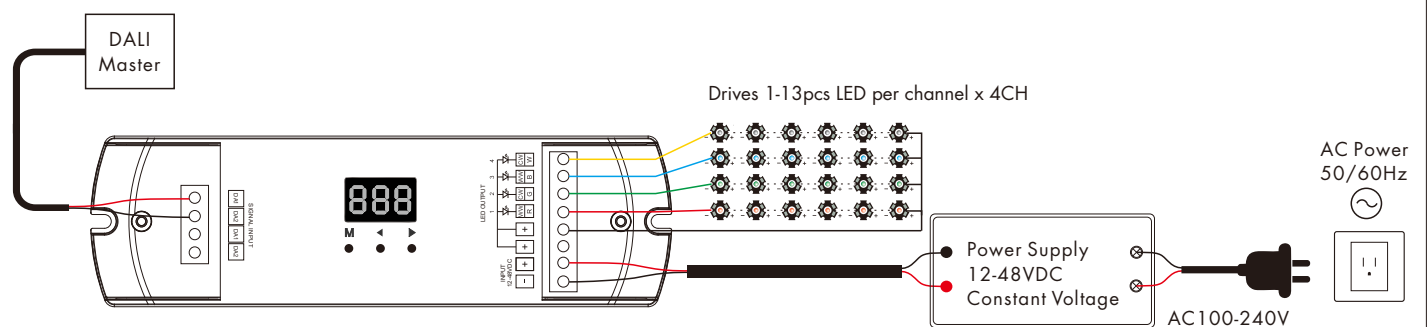
Note: The 3/4 LED channel output is same as 1/2 LED channel.

• DA4-CM for RGB (C-3)



Note: The 4th LED channel no output.

• DA4-CM for RGBW (C-4)



Operation

Output current setting

- Please select the correct current firstly when the LED load is disconnected.
- Long press M and ◀ and ▶ key in the same time for 2s, prepare for setup output current.
- For DA4-C(150-500mA): short press ◀ or ▶ key to switch 150mA("C15"), 200mA("C20"), 250mA("C25"), 300mA ("C30"), 350mA("C35"), 400mA("C40"), 450mA("C45") or 500mA("C50").
- For DA4-C(350-1200mA): short press ◀ or ▶ key to switch 350mA("C35"), 500mA("C50"), 600mA("C60"), 700mA("C70"), 800mA("C80"), 900mA("C90"), 1050mA("CA5") or 1200mA("CC0").
- Press M key or timeout 10s, quit output current setting.

Setting the light type

- The first time you use it, you need to set the light type according to your application needs.
- Press the M button for 2 seconds to set the light type.
- Press the ◀ or ▶ key to switch between the single color ("C-1"), dual color ("C-2"), RGB ("C-3") or RGBW ("C-4") light type.
- Short press the M button or timeout for 10 seconds to exit the light type setting.

Light type setting instructions:

When setting C-1 type, DT6 dimming, 4-channel output is the same.

When setting C-2 type, DT8-TC, 3/4 LED channel and 1/2 LED channel output is the same.

When setting C-3 type, DT8-RGB, the 4th channel does not output.

When setting C-4 type, DT8-RGBW, 4 channels are output independently.

Set DALI Address via buttons

- Long press ◀ or ▶ key for 2s, prepare for set the start DALI address, then press ◀ or ▶ key to set the start DALI address.
- Short press M 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.

Set PWM frequency

- Long press M & ◀ key for 2s, prepare for set PWM frequency.
- Short press ◀ or ▶ key to switch between 1000Hz("F10"), 2000Hz("F20"), 4000Hz("F40") or 8000Hz("F80").
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera (No flickers for video).
- Short press M 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, DT8-RGBW, PWM frequency is 4000Hz.
- Long press M & ▶ key for 2s, enter fast self-testing, the output channel will be on orderly then all on.

Safety & Warnings

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