

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



DA4-CM(150-500mA)



DA4-CM(350-1200mA)

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 62386-209and 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.

CE RoHS

Technical Parameters

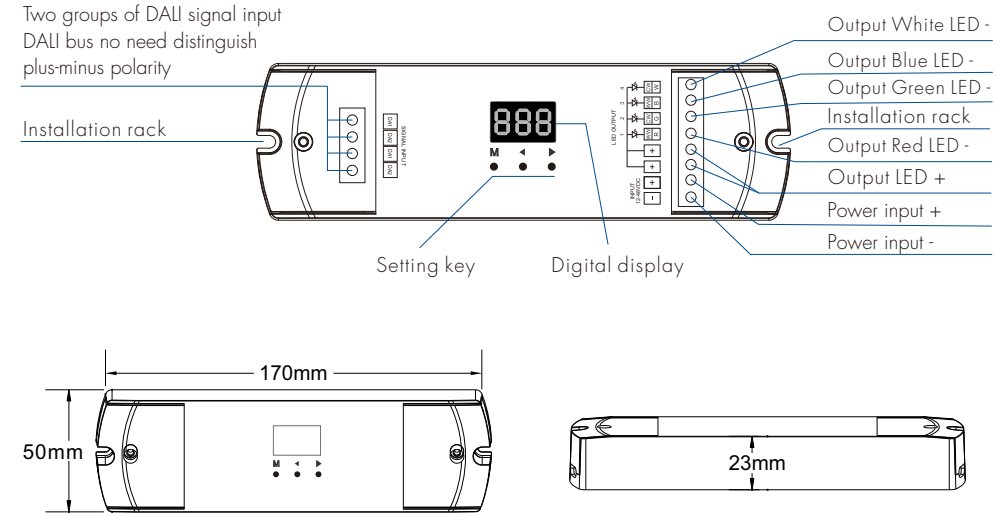
Input and Output	
Input voltage	12-48VDC
Output voltage	4 x {3-45}VDC
Output current	4CH, 150-500mA or 350-1200mA/CH
Output power	4 x {0.45-22.5}W (150-500mA) 4 x {1.05-54}W (350-1200mA)
Output type	Constant current
Environment	
Operation temperature	Ta: -30℃ ~ +55℃
Case temperature (Max.)	Tc: +80℃
IP rating	IP20

Dimming data	
Input signal	DALI
Dimming range	0-100%
Dimming curve	Logarithmic
PWM Frequency	4000Hz (default)
Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity Over-heat Short circuit

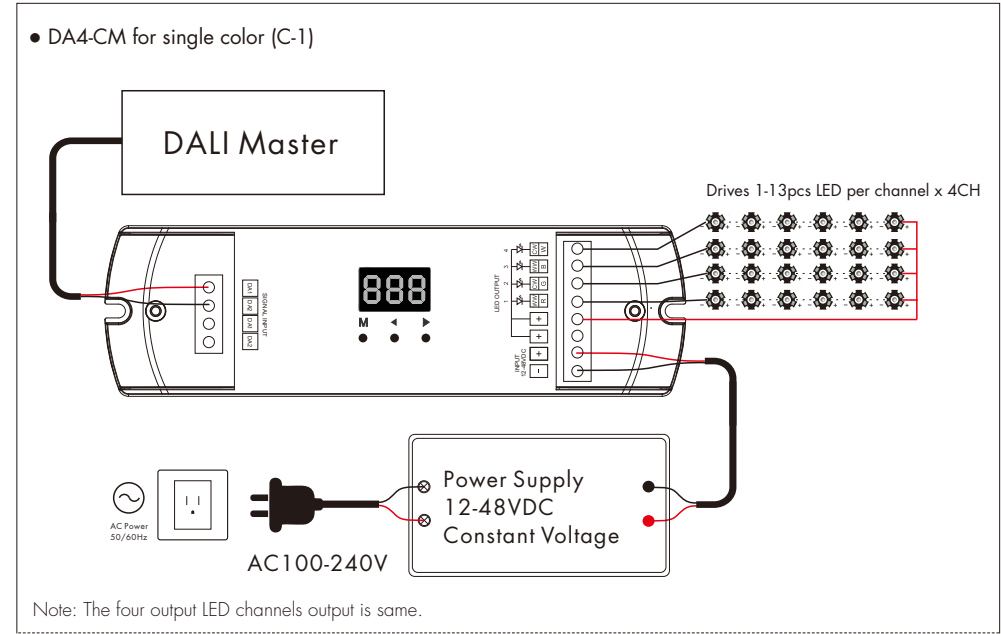
LED Current Selection

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

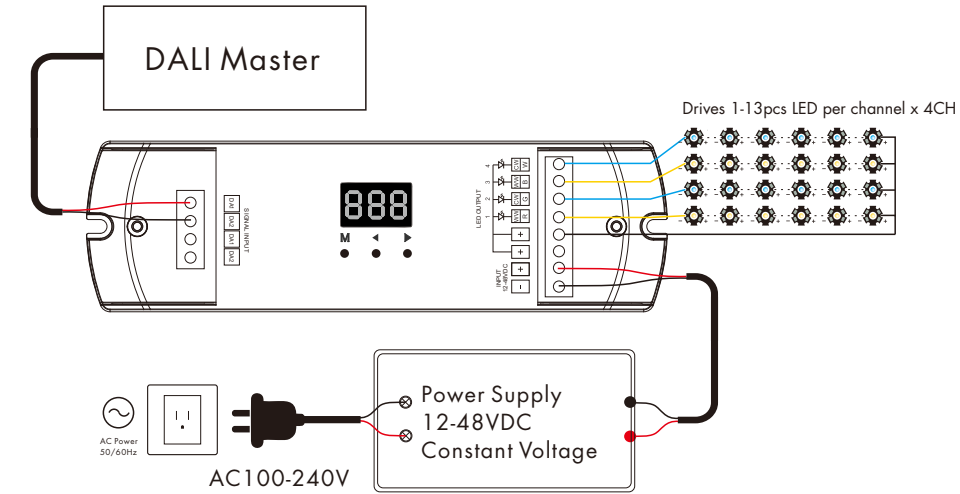
Mechanical Structures and Installations



Wiring Diagram

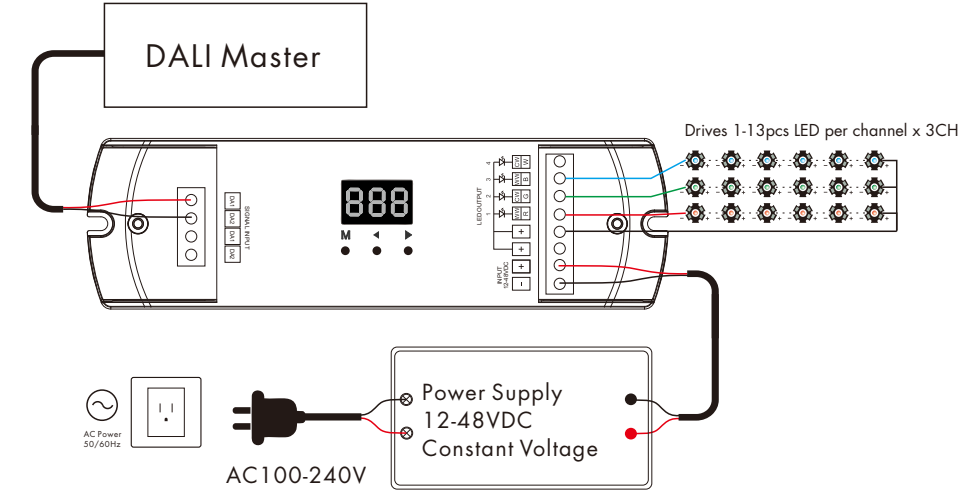


• DA4-CM for dual color (C-2)

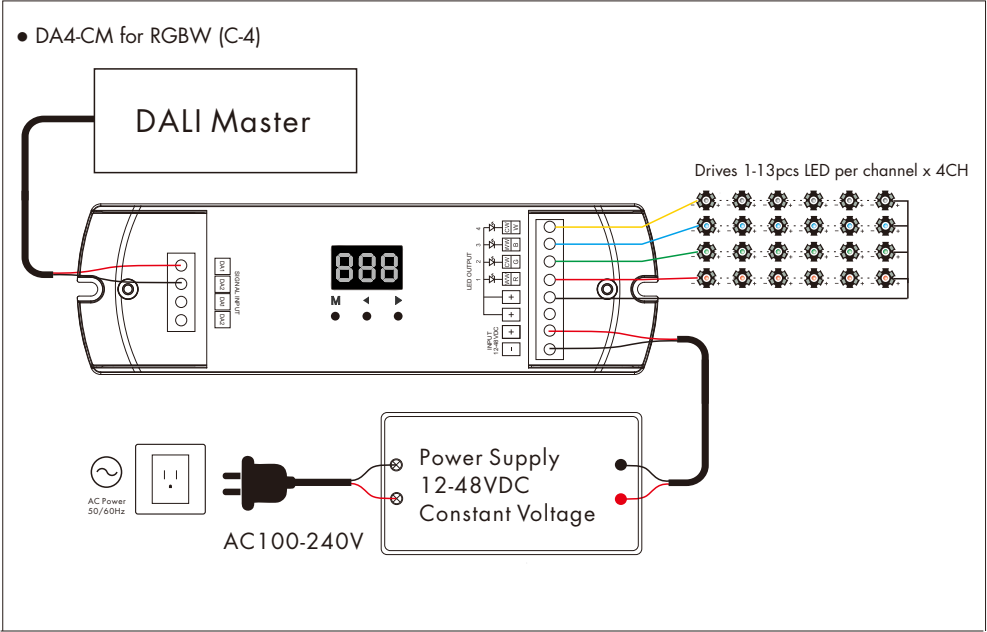


Note: The 3/4 LED channel output is same as 1/2 LED channel.

• DA4-CM for RGB (C-3)



Note: The 4th LED channel no output.



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-RGBV, 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 start DALI address"Axx", xx is from 00 to 63.

Using DALI master assign address may result in discontinuous address, the digital display will show the start DALI address"Uxx".

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-RGBV, 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.

景 晴 光 电
SKYDANCE

DAI 4路恒流LED调光器
型号: DA4-CM(150-500mA) / DA4-CM(350-1200mA)

1个DALI地址 / 4通道恒流 / DT8 / PWM调光 / 数字显示

特点

- 4通道恒流LED DALI调光器，带数字显示，每通道输出电流150-500mA或350-1200mA。
- 1个 DALI 地址，DT6 调光/DT8-TC色温/DT8-RGB/DT8-RGBW可选。
- 符合DALI标准协议IEC62386-102、IEC62386-207、IEC 62386-209，兼容其他品牌的DALI产品。
- DALI地址可以手动分配并数字显示，也可以由DALI主机自动分配。
- PWM数字调光，标准DALI对数调光曲线。
- PWM频率1000/2000/4000/8000Hz可选。
- 过热/短路保护，自动恢复。
- 具有快速自检功能。



DA4-CM(150-500mA)

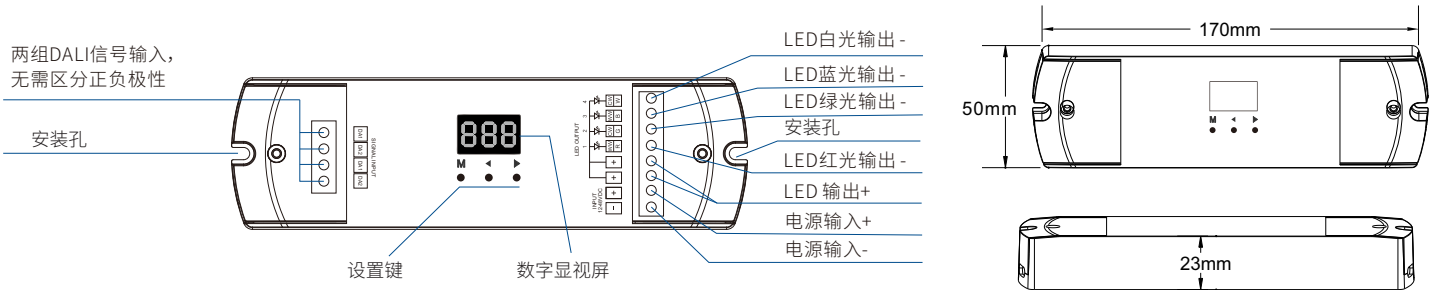
DA4-CM(350-1200mA)

CE RoHS

技术参数

输入和输出		调光数据		质保和保护	
输入电压	12-48VDC	输入信号	DALI	质保	5年
输出电压	4 x (3-45)VDC	调光范围	0-100%	保护	防反接， 过热， 短路
输出电流	4CH, 150-500mA or 350-1200mA/CH	调光曲线	对数		
输出功率	4 x (0.45-22.5)W (150-500mA)	PWM频率	4000Hz (默认)	环境	
	4 x (1.05-54)W (350-1200mA)	包装		工作温度	Ta: -30℃ ~ +55℃
输出类型	恒流	尺寸	175x54 x27mm(长x宽x高)	外壳最高温度	Ta: +80℃
		总重量	0.131kg	IP等级	IP20

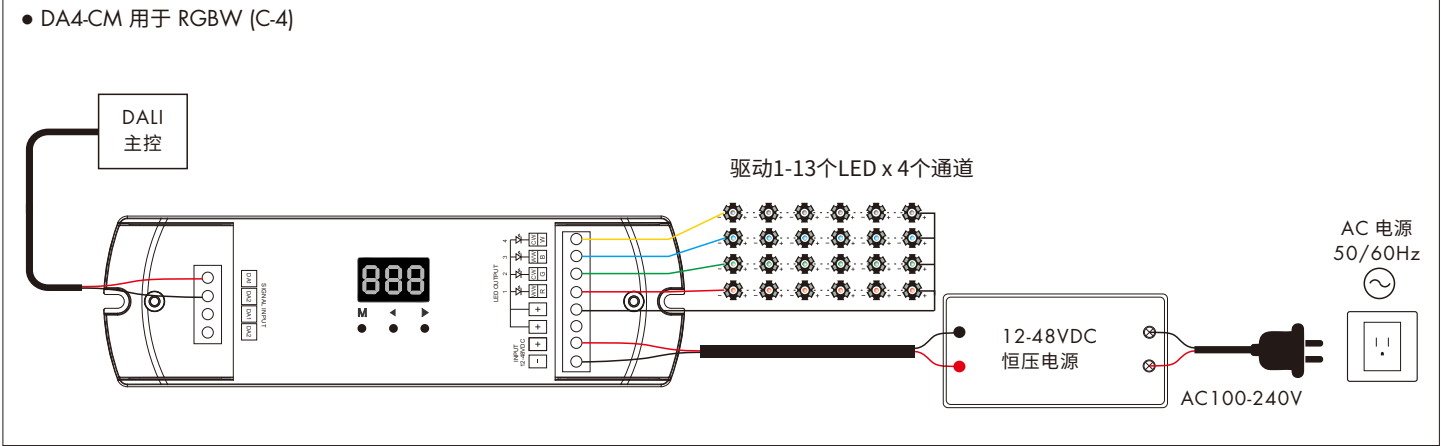
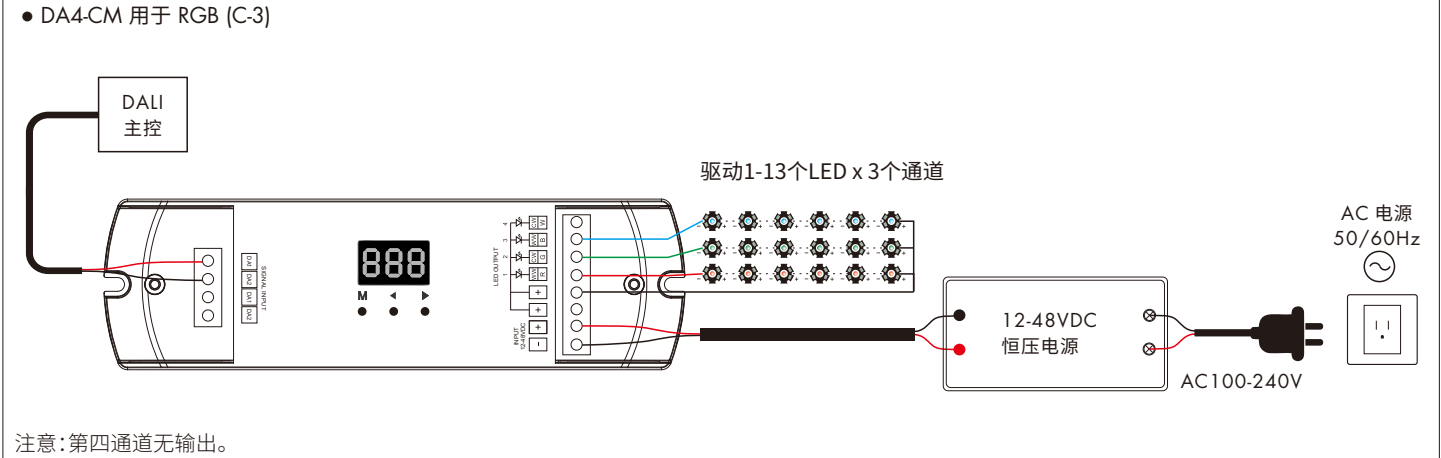
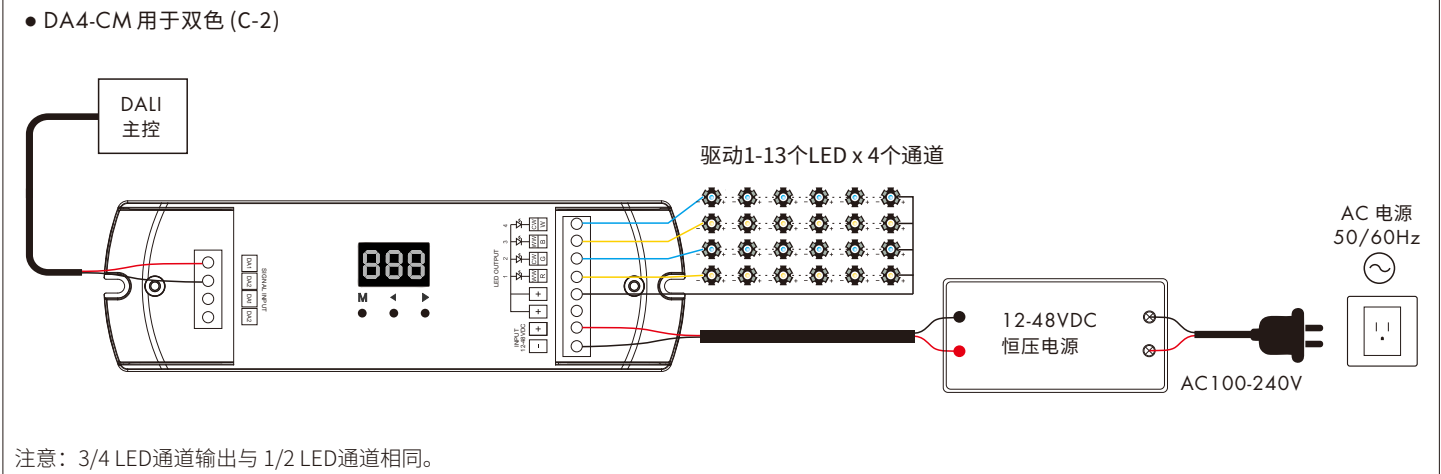
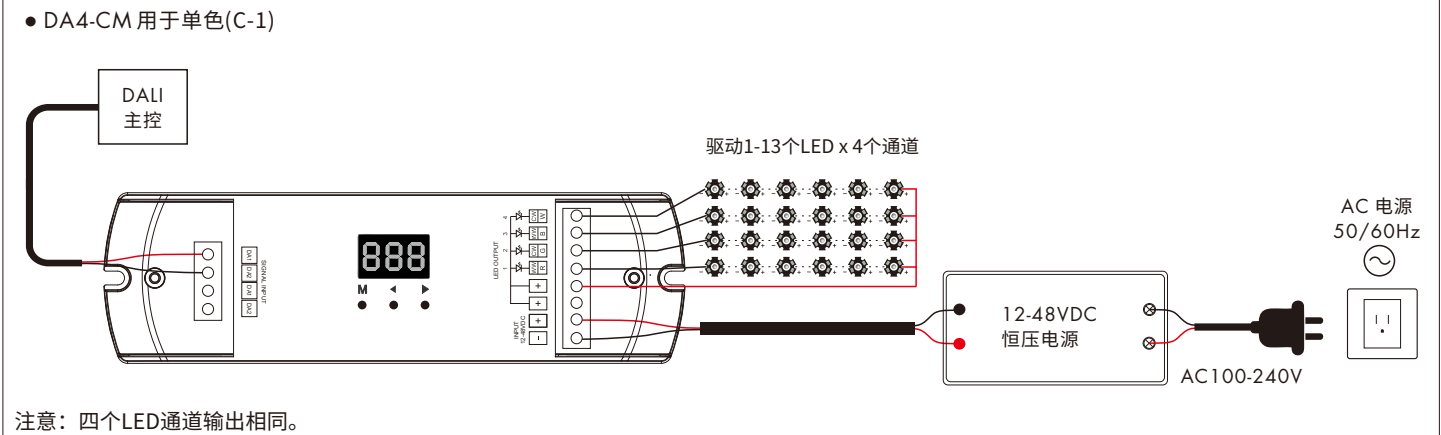
机械结构和安装



LED输出电流选择

DA4-CM (150-500mA)	输出电流	150mA	200mA	250mA	300mA	350mA	400mA	450mA	500mA
	输出电压	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V
	输出功率/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)	输出电流	350mA	500mA	600mA	700mA	800mA	900mA	1050mA	1200mA
	输出电压	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V	3-45V
	输出功率/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

接线图



操作

输出电流设置

- 连接LED负载之前, 请先设置正确的电流输出。
- 同时长按M, ◀和▶键2秒, 准备设置输出电流。
- 对于DA4-CM(150-500mA):短按◀或▶键切换150mA(“C15”),200mA(“C20”),250mA(“C25”),300mA(“C30”),350mA(“C35”),400mA(“C40”),450mA(“C45”)或500mA(“C50”)。
- 对于DA4-CM(350-1200mA):短按◀或▶键切换350mA(“C35”),500mA(“C50”),600mA(“C60”),700mA(“C70”),800mA(“C80”),900mA(“C90”),1050mA(“CA5”)或1200mA(“CC0”)。
- 长按M键2秒,或超时10秒, 退出系统参数设置。

设置灯光类型

- 第一次使用时, 请根据应用设置灯光类型。
- 长按M键2秒, 准备设置灯光类型。
- 按◀或▶键切换单色(“C-1”)、双色(“C-2”)、RGB(“C-3”)或RGBW(“C-4”)灯光类型。
- 短按M键或超时10秒, 退出灯光型设置。

灯光类型设置说明:

设置C-1, DT6调光类型时, 4路输出相同。

设置C-2, DT8-TC类型时, 3/4 LED通道和 1/2 LED通道输出相同。

设置C-3, DT8-RGB 类型时, 第 4 通道不输出。

设置C-4, DT8-RGBW类型时, 4个通道独立输出。

按键设置DALI地址

- 长按◀或▶键2秒, 准备设置DALI地址, 然后按◀或▶键设置DALI地址。
- 短按M键或超时10秒, 退出DALI地址设置。
- DALI地址可设置为00-63-FF。
- 出厂默认情况下, 调光器未分配DALI地址, 数字显示“AFF”。

DALI主控设置DALI地址

DALI地址也可以由DALI主控自动分配, 请参考DALI主控用户手册。

当DALI主控分配地址时, 数字显示“AAU”。

地址分配完毕, 数字显示DALI地址“Axx”, xx值从00到63。

设置PWM频率

- 同时长按M和◀键2秒, 准备设置PWM频率。
- 短按◀或▶键切换1000Hz("F10"),2000Hz("F20"),4000Hz("F40")或者8000Hz("F80")。
- 较高的PWM频率, 会导致较低的输出电流, 较高的电源噪声, 但更适合于视频拍摄(无闪烁)。
- 短按M键或超时10秒, 退出系统参数设置。

安全和警告

- 不要带电安装调光器。
- 不要将调光器安装在潮湿环境。