LDT-DALI-4CC-350-1200

Four-Channel DT6/DT8 DALI Constant-Current Driver

A four-channel DALI constant-current driver for series LED loads in the 350-1200 mA hardware range, with configurable DT6/DT8 lighting profiles.

Supply voltage	12-48 VDC
LED output	4-channel buck constant-current
LED output voltage	3-45 VDC per channel
Maximum output current	350-1200 mA per channel; selectable setpoints
Current selections	350, 500, 600, 700, 800, 900, 1050 or 1200 mA
Maximum output power	4 x (1.05-54) W
Control inputs	DALI + local digital display/buttons
DALI profiles	DT6, 1-4 addresses; DT8-TC, DT8-RGB or DT8-RGBW
PWM frequency	1000 / 2000 / 4000 / 8000 / 16000 Hz; default 4000 Hz
Dimming	0-100%; logarithmic curve
Address assignment	Automatic from DALI master or manual via local display
Operating temperature	-20 to +55 °C
Maximum case temperature	+80 °C
IP rating	IP20
Body dimensions	170 x 50 x 23 mm

Only the 350-1200 mA hardware version is identified by this page. The shared reference also illustrates the separate 150-500 mA version; those ratings must not be interchanged.

The following reference pages include the complete wiring, dimensions, settings and operating instructions. Use the lighting and hardware variant identified above; shared references may illustrate other separate models.

CC driver(150-500mA) / CC driver

DALI

4 Channel Constant Current LED DALI D

- 4 channel constant current DALI LED Dimmer with digital display, 150-500mA or 350-1200mA 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 separa
- 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 1000/2000/4000/8000/16000Hz selectal
- Over-heat / Short circuit protection, recover automatically.
- With fast self-testing function.



150-500mA 350-1200mA

CE RoHS

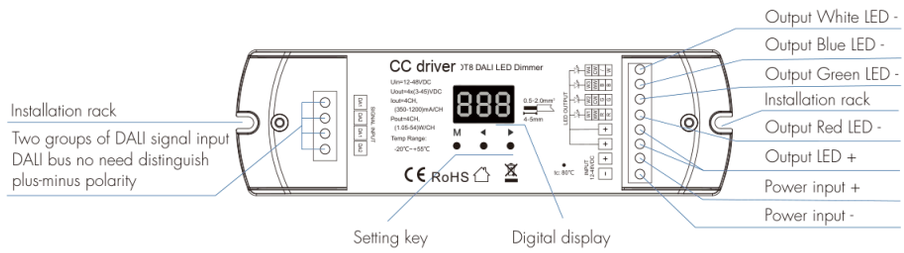
Technical Parameters

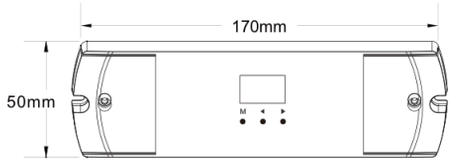
Input and Output	
Input voltage	12-48VDC
Output voltage	4 x (3-45)VDC
Output current	4CH, 150-500mA or 350-1200mA/CH
Output power	4 x (0.45-22.5)W (150-500mA) 4 x (1.05-54)W (350-1200mA)
Output type	Constant current
Package	
Size	**L175 x W54 x H27mm**
Gross weight	0.177kg

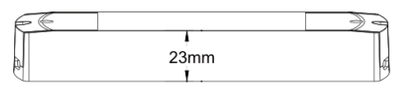
Dimming data	
Input signal	DALI
Dimming range	0-100%
Dimming curve	Logarithmic
PWM Frequency	4000Hz (default)
Environment	
Operation temperature	Ta: -20℃~+55℃
Case temperature (Max.)	Tc: +80℃
IP rating	IP20

Safety and EMC	
EMC standard	EN IEC 55015:2019+A11:2020 EN 61547:2009 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019
Safety standard	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Certification	CE
Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity Over-heat Short circuit

Mechanical Structures and Installations







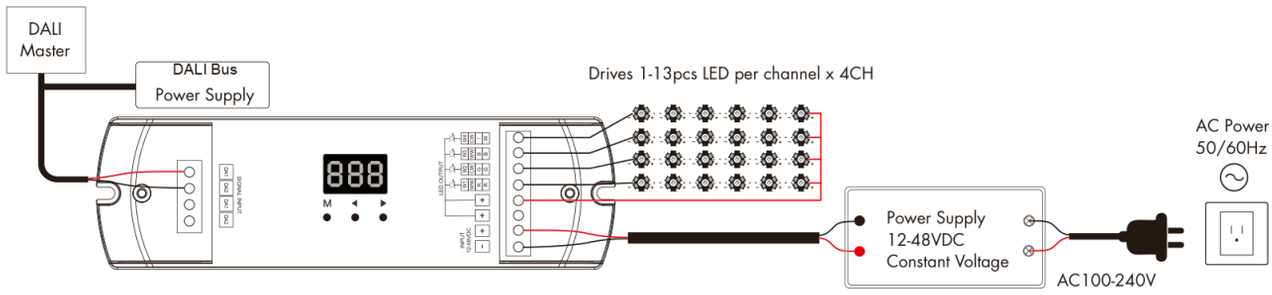
LED Current Selection

CC driver (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

CC driver (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

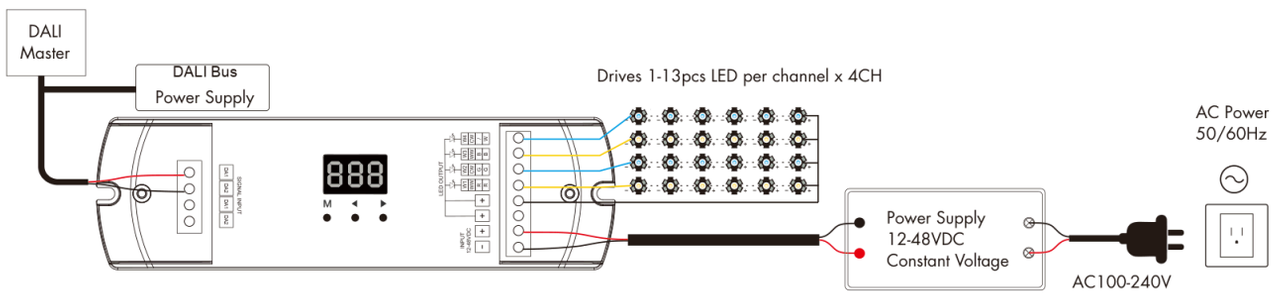
Wiring Diagram

- CC driver for single color (1CH, 2CH, 3CH, 4CH)



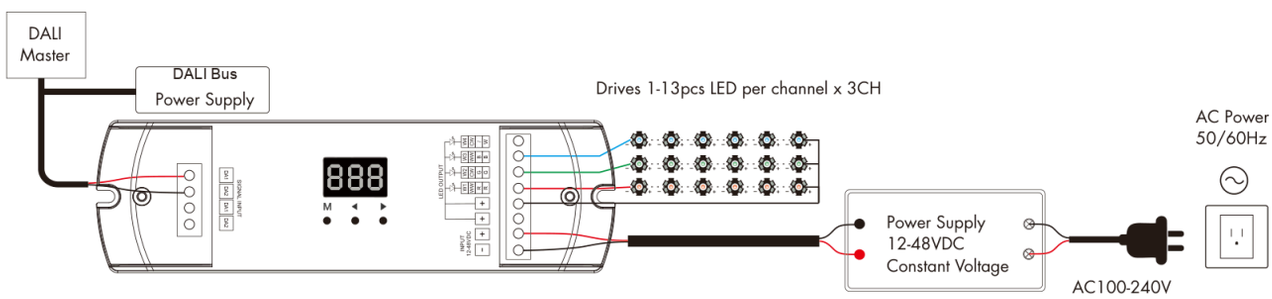
Note: The four output LED channels output is same.

- CC driver for dual color (C-2)



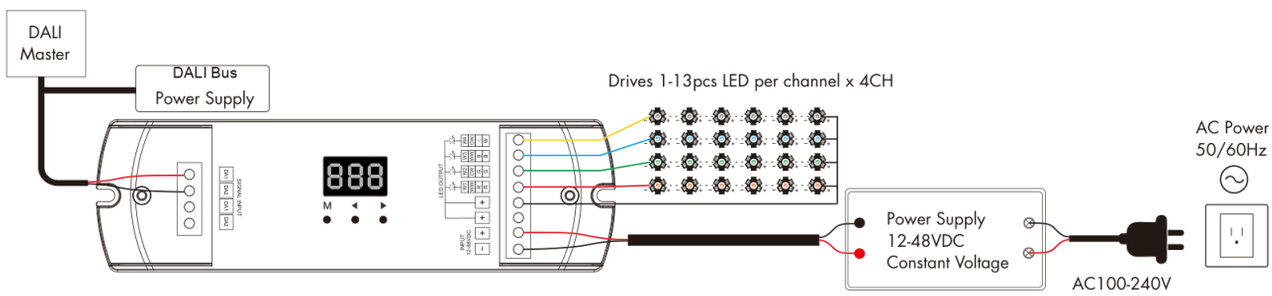
Note: The 3/4 LED channel output is same as 1/2 LED channel.

- CC driver for RGB (C-3)



Note: The 4th LED channel no output.

- CC driver for RGBW (C-4)



Output current setting

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

Light type setting

- 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 ▶ button to switch between the single color ("1CH/2CH/3CH/4CH"), 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 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.



DT6, 1CH

- When set "2CH" type, DT6 dimming, the dimmer occupy 2 DALI address,
  CH1, CH2 will be same DALI address A, CH3,CH4 will be same DALI address A+1.



DT6, 2CH

- 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.



DT6, 3CH

- 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.



DT6, 4CH

- When set "C-2" type, DT8-TC dimming, the dimmer occupy 1 DALI address,
  3/4 LED channel and 1/2 LED channel output is the same.



DT8-TC

- When set "C-3" type, DT8-RGB dimming, the dimmer occupy 1 DALI address,
  the 4th channel does not output.



DT8-RGB

- When set "C-4" type, DT8-RGBW dimming, the dimmer occupy 1 DALI address,
  4 channels are output independently.



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.

DALI address setting

Set DALI Address via buttons

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

- Long press M and ◀ button for 2s, prepare for set PWM frequency.
- Short press ◀ or ▶ button 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).
- Short press M button or timeout 10s, quit PWM frequency setting.

Restore factory default parameter setting

- Long press ◀ and ▶ button for 2s, restore factory default parameter, display "RES".
- Factory default parameter: no DALI address is assigned, DT6 four channel dimming, PWM frequency is 4000Hz.
- Long press M and ▶ button 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.