64W DALI LED Driver(Constant Current)
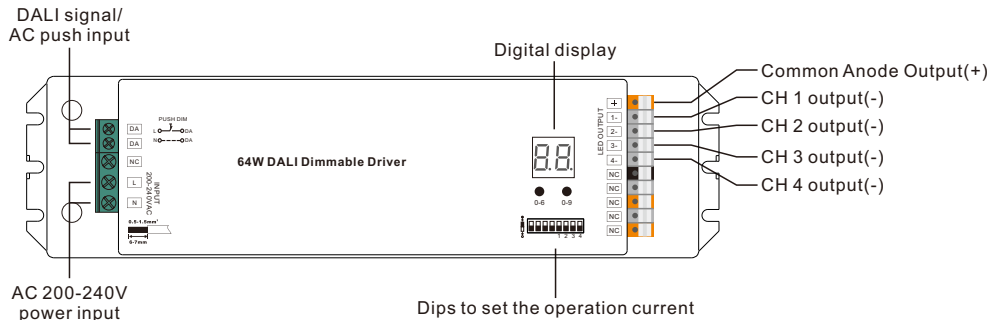
CCDRV75DALI

collingwood

Important: Read All Instructions Prior to Installation

Function introduction

DALI signal/ AC push input

Digital display

Common Anode Output(+)
CH 1 output(-)
CH 2 output(-)
CH 3 output(-)
CH 4 output(-)

64W DALI Dimmable Driver

AC 200-240V power input

Dips to set the operation current

Product Data

Output	LED Channel	4							
	Selectable Current	300mA	350mA	400mA	450mA	500mA	600mA	700mA	800mA
	DC Voltage Range	8-43V	8-43V	8-43V	8-43V	8-43V	8-43V	8-43V	8-43V
	Selectable Current	900mA	1000mA	1100mA	1200mA	1300mA	1400mA	1500mA	
	DC Voltage Range	8-43V	8-43V	8-43V	8-43V	8-43V	8-43V	8-43V	
	Current Tolerance	±5%							
	Rated Power	Max. 64W/CH, CH1+CH2+CH3+CH4 ≤ 64W							
Input	Voltage Range	200-240V AC							
	Frequency Range	50/60Hz							
	Power Factor (Typ.)	> 0.9							
	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)							
	Efficiency (Typ.)	87% @ 230VAC full load							
	AC Current (Typ.)	400mA @ 230VAC							
	Inrush Current (Typ.)	COLD START Max. 2A @ 230VAC							
	Leakage Current	< 0.5mA /230VAC							
	Standby Power Consumption	< 1W							

Control	Dimming Interface	DALI (DALI consumption < 2mA)/Push
	Dimming Range	0.1%-100%
	Dimming Method	Pulse Width Modulation
	Dimming Curve	Logarithmic
Protection	Short Circuit	Yes, recovers automatically after fault condition is removed
	Over Voltage	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after fault condition is removed
Environment	Working Temp.	-20℃ ~ +45℃
	Max. Case Temp.	85℃ (Ta="45℃")
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH
Safety & EMC	Safety Standards	ENEC EN61347-1, EN61347-2-13 approved
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV
Others	MTBF	186300H, MIL-HDBK-217F @ 230VAC full load and 25℃ ambient temperature
	Dimension	244x64x32mm (L*W*H)

Set Output Current

Select the correct output current before wiring to LED light by DIP Switches. Please make sure the power to the driver is disconnected before selection of the output current.

Dips to set the operation current

	1 2 3 4			1 2 3 4
300mA	●●●○	800mA		○●●●
350mA	●●○●	900mA		○●●○
400mA	●●○○	1000mA		○●○●
450mA	●○●●	1100mA		○●○○
500mA	●○●○	1200mA		○○●●
600mA	●○○●	1300mA		○○●○
700mA	●○○○	1400mA		○○○●
		1500mA		○○○○

- Dimmable LED driver
- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2.
- Built-in DALI-2 interface, DALI DT6 device
- 4 channels constant current output, total output power up to 64W
- 300mA-1500mA output current optional

• Output current level selectable by DIP switches
• Class Ⅱ power supply, full isolated plastic case
• Power factor > 0.9, efficiency > 87%
• DALI addresses quantity can be set as 1/2/3/4
• Enables to control single color, CCT (needs 2 DALI addresses), RGB (needs 3 DALI addresses), RGBW (needs 4 DALI addresses) LED lighting
• Compliant with Safety Extra Low Voltage standard
• Short circuit, over load, over temperature protection
• IP20 rating, suitable for indoor LED lighting applications
• 5 years warranty

Safety & Warnings

• DO NOT install with power applied to the device.
• DO NOT set operation current with power applied to the device.
• DO NOT expose the device to moisture.

Operation

1.Set DALI Address Manually Via Buttons

1.1 Press and hold down any of the two buttons until numeric digital display flashes, then release the button.
1.2 Click any of the two buttons once to select a digit, click again to change the digit until the desired DALI address appears. Click first button to set "tens" position and second button to set "units" position. The address can be set from 00~63.
1.3 Then press and hold down any of the 2 buttons until the numeric digital display stops flashing to confirm the setting.

Note: DALI address can be manually assigned from 00-63-FF, by factory defaults, no DALI address is

assigned for the driver, and the display shows FF **. Setting DALI address as** FF **will reset the dimmer to factory defaults.**

2.DALI Address Assigned by DALI Masters
2.1 DALI address can also be assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

Note: The digital display will show AU when the DALI master is assigning addresses.

3.Set DALI Address Quantity

3.1 Press and hold down both of the two buttons until numeric digital display flashes, then release the button.
3.2 Click first button to select "1A", "2A", "3A" or "4A" which means 1, 2, 3 or 4 addresses.
3.3 Then press and hold down any of the 2 buttons until the numeric digital display stops flashing to confirm the setting.
For example, when we set address to 22:
When select 1A, both 4 channels will be the same address 22.
When select 2A, channel 1&3 will be address 22, channel 2&4 will be address 23.
When select 3A, channel 1, 2, 3 will be address 22, 23, 24 respectively, channel 4 will be address 22.
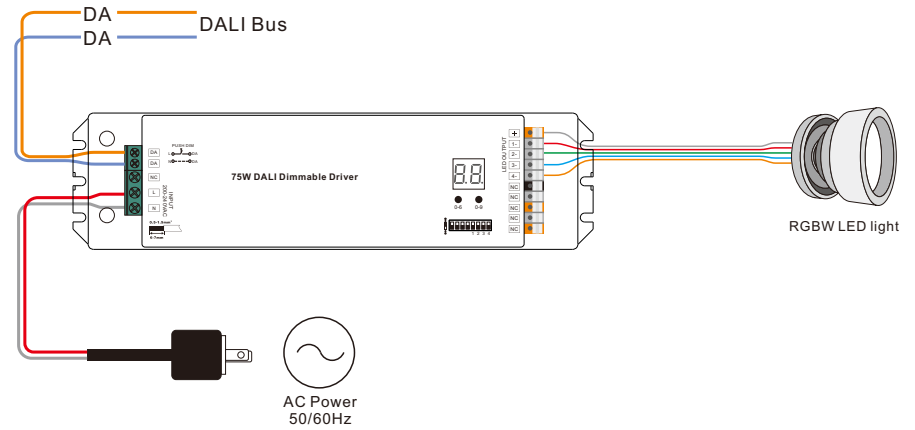When select 4A, channel 1, 2, 3, 4 will be address 22, 23, 24, 25 respectively.

4. Push Dimmer Mode

While connected with a AC PUSH, the digital display will show "PD" which means Push Dimmer Mode, operations under Push Dimmer Mode are as follows:
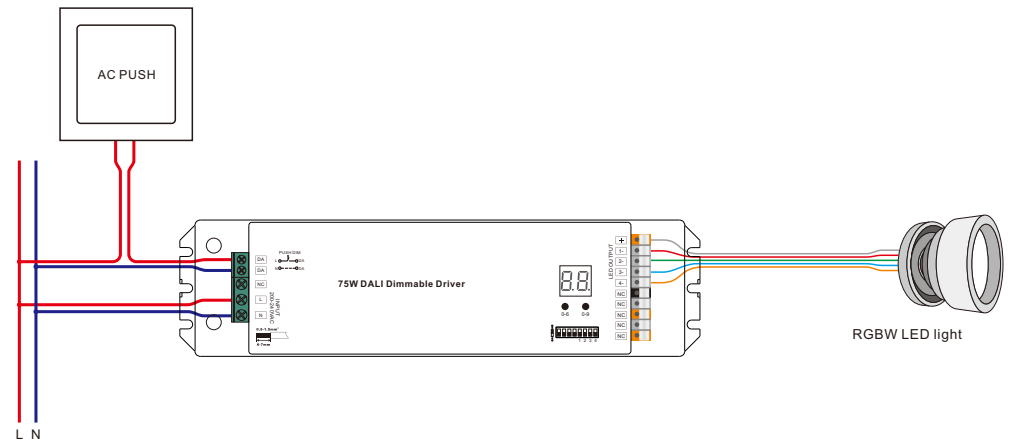4.1. Click the button to switch ON/OFF
4.2. Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 0.1% to 100%.
4.3. Memory function after power off or power failure enables the device to memorize the status before power off while power on again.

Wiring diagram

1.With DALI bus

2.With PUSH dimmer

Note: When DALI address quantity is set as 1A and 4 PWM output channels are wired to LED loads simultaneously, please make sure the operation current of the LED loads does not exceed 1100mA.

Product Dimension