

# 100W DALI LED Driver(constant voltage)

CCDRV100DALI

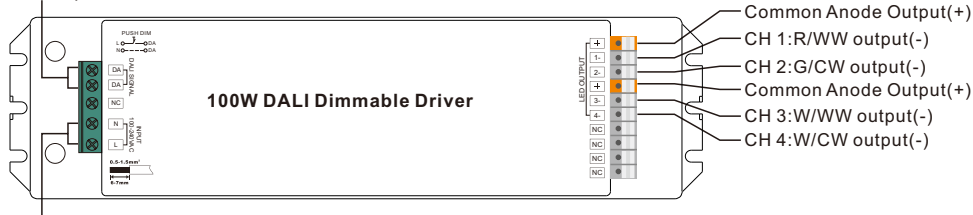


collingwood

**Important:** Read All Instructions Prior to Installation

## Function introduction

DALI signal input/  
AC Push input



AC 100-240V  
power input

## Product Data

Output	LED Channel	4
	DC Voltage	24V DC
	Max. Current	Max. 4.16A/CH, CH1+CH2+CH3+CH4=4.16A
	Voltage Tolerance	±1%
	Rated Power	max. 100W
Input	Voltage Range	100-240V AC
	Frequency Range	50/60Hz
	Power Factor (Typ.)	> 0.90 @ 230VAC
	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)
	Efficiency (Typ.)	90% @ 230VAC full load
	AC Current (Typ.)	1.2A @ 100VAC, 0.5A @ 230VAC
	Inrush Current (Typ.)	COLD START Max. 50A at 230VAC
Control	Leakage Current	< 0.5mA /230VAC
	Dimming Interface	DALI (DALI consumption < 2mA)/PUSH
	Dimming Range	0.1%-100%
Protection	Dimming Method	Pulse Width Modulation
	Over Current	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after fault condition is removed

Environment	Working Temp.	-20°C ~ +50°C
	Max. Case Temp.	75°C (Ta="45°C")
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH
Safety & EMC	Safety Standards	TUV EN61347-1, EN61347-2-13 approved
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 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	189100H, MIL-HDBK-217F @ 230VAC full load and 25 ambient temperature
	Dimension	244*64*32mm (L*W*H)

- Dimmable LED driver, max. output power 100W total
- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2.
- Built-in DALI-2 interface, DALI DT6 device
- 100-240VAC wide input voltage
- 4 channels DC 24V constant voltage output
- Class 1 power supply, full isolated plastic case
- High power factor and efficiency
- Stand-by power consumption less than 0.5W, meet latest ERP regulations
- Max.14pcs Driver on 13A circuit breaker
- Max.17pcs Driver on 16A circuit breaker
- 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
- 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 device.
- DO NOT expose the device to moisture.

## Operation

### 1. DALI Address Assigned by DALI Masters

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

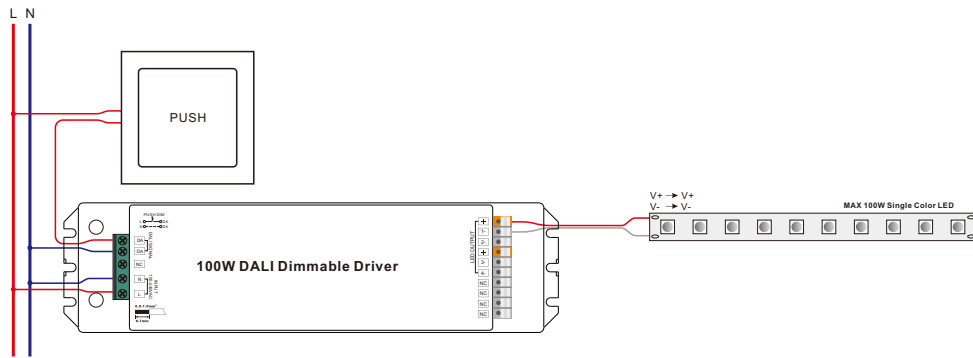
### 2. PUSH Dimmer Mode

Operations under Push Dimmer Mode are as follows:

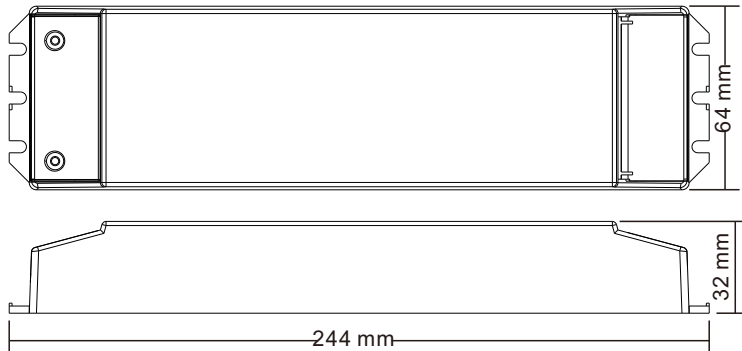
- 2.1. Click the button to switch ON/OFF
- 2.2. Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction.
- 2.3. Memory function after power off or power failure enables the device to memorize the status before power off while power on again.

## Wiring diagram

### 1. With PUSH dimmer



## Product Dimension



## Wiring diagram

### 2. With DALI bus

