# 100W DALI DT8 Dimmable LED Driver

DALI2  CE  RoHS COMPLIANT  RIPPLE FREE  SELV  ▽▽▽ 110  □  ⌂  🏠  ☒

*Important:* Read All Instructions Prior to Installation

## Function introduction



AC 220-240V input

100W DALI DT8 LED Driver

LED output

DALI/Push signal input
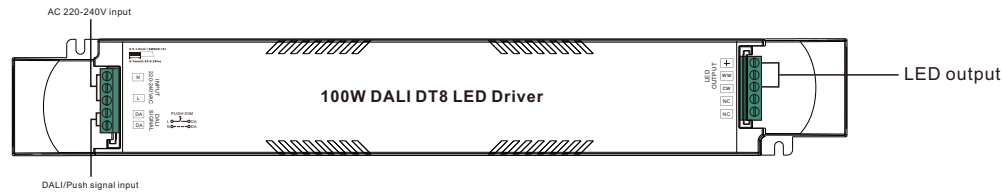
## Product Data

| | | |
|---|---|---|
| Output | LED Channel | 2 Channel |
| | DC Voltage | 24V DC |
| | Max. Current | Max. 4.17A（CH1+CH2≤4.17A） |
| | Voltage Tolerance | ±3% |
| | Rated Power | Max. 100W |
| Input | Voltage Range | 220-240V AC |
| | Frequency Range | 50/60Hz |
| | Power Factor (Typ.) | > 0.97 @ 230VAC |
| | Total Harmonic Distortion | THD ≤ 9% (@ full load / 230VAC) |
| | Efficiency (Typ.) | 93% @ 230VAC full load |
| | AC Current (Typ.) | 0.47A @ 230VAC |
| | Inrush Current (Typ.) | COLD START Max. 32A @ 230VAC |
| | Leakage Current | < 0.5mA /230VAC |
| | Standby Power Consumption | < 0.5W |
| | Anti Surge | L-N:2KV |
| Control | Dimming Interface | DALI DT8 (DALI consumption<2mA) / Push |
| | Dimming Range | 0.1%-100% |
| | Dimming Method | Pulse Width Modulation |
| | Dimming Curve | Linear/Logarithmic optional |
| Protection | Over Voltage | Yes, recovers automatically after fault condition is removed |
| | Over Load | Yes, recovers automatically after fault condition is removed |
| | Short Circuit | Yes, recovers automatically after fault condition is removed |
| | Over temperature | Yes, recovers automatically after temperature drop |

| | | |
|---|---|---|
| Environment | Working Temp. | -25℃ ~ +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 | IEC/EN61347-1, IEC/EN61347-2-13 |
| | 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 Class C, EN61000-3-3 |
| | EMC Immunity | EN61000-4-2,3,4,5,6,8,11, EN614547 |
| Others | MTBF | 191500H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature |
| | Dimension | 306.6*43*30mm (L*W*H) |
| | Warranty | 5 Years |

• Dimmable LED driver, max. output power 100W total
• In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2, IEC 62386-209:2011
• Built-in DALI-2 interface, DALI DT8 device
• 2 channels DC 24V constant voltage output
• High power factor and efficiency
• Built-in DALI interface, DALI DT8 device, each device is controlled via a single DALI address
• PWM dimming,smooth and deep dimming to 0.1%
• Compatible with universal DALI masters that support DT8 commands
• LED Driver has Class A sound ratings per Energy-star regulated
• Error report function, support DALI DT8 Tc type
• IP20 rating, suitable for indoor LED lighting applications
• 5 years warranty

## Safety & Warnings

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

## Operation

### 1. DALI Address
1 DALI address for 2 channels output are assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

### 2. PUSH Dimmer Mode
While connected with a AC PUSH, the driver will be in Push Dimmer Mode, operations under Push Dimmer Mode are as follows:
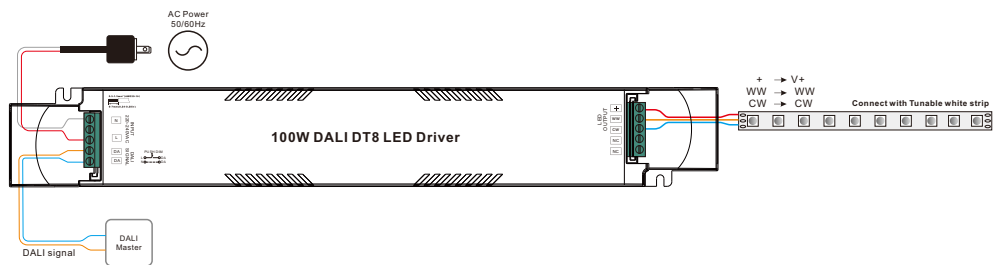2.1. Click the button to switch ON/OFF
2.2. Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 0.1% to 100%.
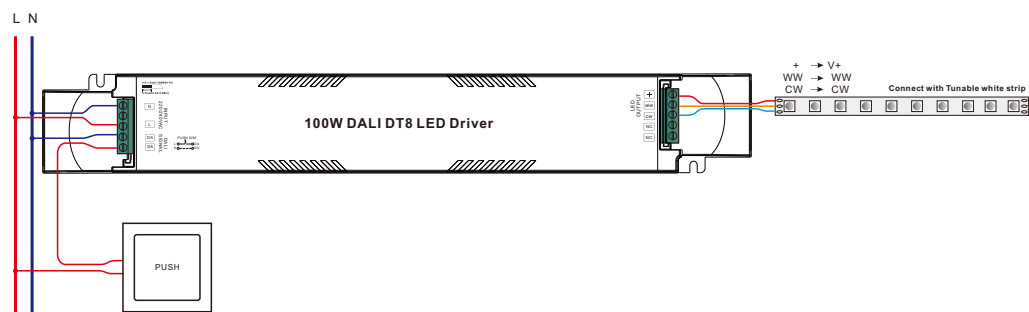2.3. Memory function after power off or power failure enables the device to memorize the status before power off while power on again.

## Wiring diagram

### 1. With DALI Bus

AC Power
50/60Hz

100W DALI DT8 LED Driver

LED
OUTPUT

+ → V+
WW → WW
CW → CW   Connect with Tunable white strip

DALI signal   DALI Master

### 2. With Push Dim

L  N

100W DALI DT8 LED Driver

LED
OUTPUT

+ → V+
WW → WW
CW → CW   Connect with Tunable white strip

PUSH

## Product Dimension

256. 6 mm
266. 6 mm

43 mm

3. 2 mm

30 mm

306. 6 mm

43 mm

## AC Push Function

1) Click the button to switch ON/OFF

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 1% to 100%.

3) Double click the button to switch between brightness mode and color temperature mode.

4) Press and hold down the button to change color temperature under color temperature mode.