

# 30W DALI DT6 LED Dimmable Driver (Constant Current)

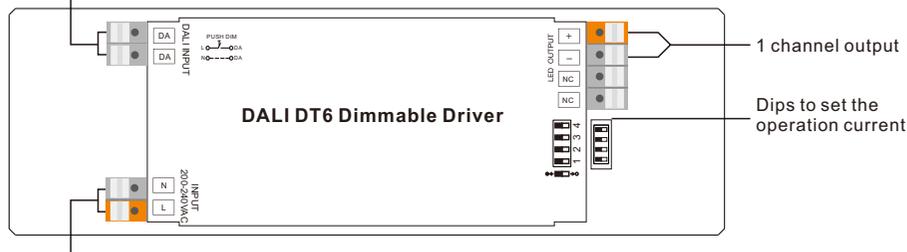
LED Controlled Device



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

## Function introduction

DALI signal input



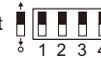
AC 200-240V input

## Product Data

|             |                           |  |       |       |       |       |       |       |        |
|-------------|---------------------------|--|-------|-------|-------|-------|-------|-------|--------|
| Output      | Selectable Current        | 250mA                                    | 300mA | 350mA | 400mA | 450mA | 500mA | 550mA | 600mA  |
|             | DC Voltage Range          | 8-55V                                    | 8-55V | 8-55V | 8-55V | 8-55V | 8-55V | 8-54V | 8-50V  |
|             | Selectable Current        | 650mA                                    | 700mA | 750mA | 800mA | 850mA | 900mA | 950mA | 1000mA |
|             | DC Voltage Range          | 8-46V                                    | 8-43V | 8-40V | 8-37V | 8-35V | 8-33V | 8-31V | 8-30V  |
|             | Rated Power               | 30W max.                                 |       |       |       |       |       |       |        |
| Input       | Voltage Range             | 200-240V AC                              |       |       |       |       |       |       |        |
|             | Frequency Range           | 50/60Hz                                  |       |       |       |       |       |       |        |
|             | Power Factor (Typ.)       | > 0.9 @ 230VAC                           |       |       |       |       |       |       |        |
|             | Total Harmonic Distortion | THD ≤ 12% (@ full load / 230VAC)         |       |       |       |       |       |       |        |
|             | Efficiency (Typ.)         | 83% @ 230VAC full load                   |       |       |       |       |       |       |        |
|             | AC Current (Typ.)         | 0.17A @ 230VAC                           |       |       |       |       |       |       |        |
|             | Inrush Current (Typ.)     | COLD START 9.76A max. at 230VAC          |       |       |       |       |       |       |        |
|             | Leakage Current           | < 0.5mA /230VAC                          |       |       |       |       |       |       |        |
| Control     | Dimming Interface         | DALI DT6 (DALI consumption<2mA)/ PUSH    |       |       |       |       |       |       |        |
|             | Dimming Range             | 0.1%-100%                                |       |       |       |       |       |       |        |
|             | Dimming Method            | Amplitude dimming (PWM dimming under 1%) |       |       |       |       |       |       |        |
|             | Dimming Curve             | Logarithmic/ Linear                      |       |       |       |       |       |       |        |
| Environment | Working Temp.             | -20°C ~ +45°C                            |       |       |       |       |       |       |        |
|             | Max. Case Temp.           | 85°C (Ta="45°C")                         |       |       |       |       |       |       |        |
|             | Working Humidity          | 10% ~ 95% RH non-condensing              |       |       |       |       |       |       |        |
|             | Storage Temp. & Humidity  | -40°C ~ +80°C, 10% ~ 95% RH              |       |       |       |       |       |       |        |

|            |                   |   |
|------------|-------------------|---|
| Protection | Short Circuit     | Yes, auto recovery after fault removed                                    |
|            | Over Voltage      | Yes, auto recovery after fault removed                                    |
|            | Over Temperature  | Yes, auto recovery after fault removed                                    |
| Safety&EMC | Safety Standards  | ENEC EN61347-1, EN61347-2-13 approved                                     |
|            | Withstand Voltage | I/P-O/P: 3.75KVAC   |
|            | 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              | 189400H, MIL-HDBK-217F @ 230VAC at full load and 25°C ambient temperature |
|            | Dimension         | 170*53.4*28mm (L*W*H)   |

Dips to set the operation current



|       |         |        |         |
|-------|---------|--------|---------|
| 250mA | ○ ○ ○ ○ | 650mA  | ● ○ ○ ○ |
| 300mA | ○ ○ ○ ● | 700mA  | ● ○ ○ ● |
| 350mA | ○ ○ ● ○ | 750mA  | ● ○ ● ○ |
| 400mA | ○ ○ ● ● | 800mA  | ● ○ ● ● |
| 450mA | ○ ● ○ ○ | 850mA  | ● ● ○ ○ |
| 500mA | ○ ● ● ○ | 900mA  | ● ● ● ○ |
| 550mA | ○ ● ● ● | 950mA  | ● ● ● ● |
| 600mA | ○ ● ● ● | 1000mA | ● ● ● ● |

- Dimmable DALI DT6 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
- Hybrid dimming method, smooth and deep dimming to 0.1%, flicker free
- 1 channel constant current output, max. output power 30W
- Output current 250mA-1000mA selectable by dip switches
- Standby power consumption less than 0.5W
- Class 2 power supply, full isolated plastic case
- High power factor and efficiency
- DALI DT6 device to control ON/OFF, light intensity output via a single DALI address
- Compatible with universal DALI masters that support DT6 commands
- IP20 rating, suitable for indoor LED lighting applications
- 5 years warranty

## Safety & Warnings

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

## Operation

### 1. DALI Address Assigned by DALI Masters

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

### 2. Power On Level

Power on level is a DALI parameter that defines the level of a control gear after power is restored. The factory default power on level for this driver is 100, which means the driver will be at 100% intensity when power is restored.

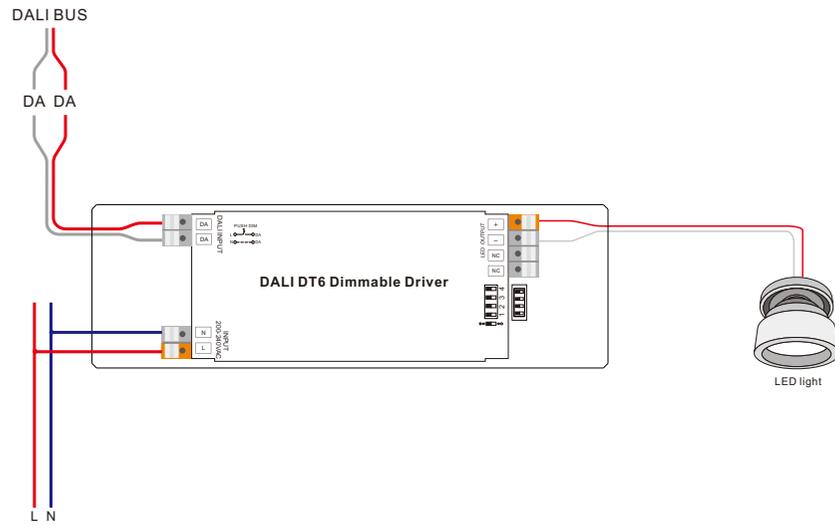
### 3.Push Dimmer Mode

While connected with a AC PUSH, it means Push Dimmer Mode, and operations under Push Dimmer Mode are as follows:

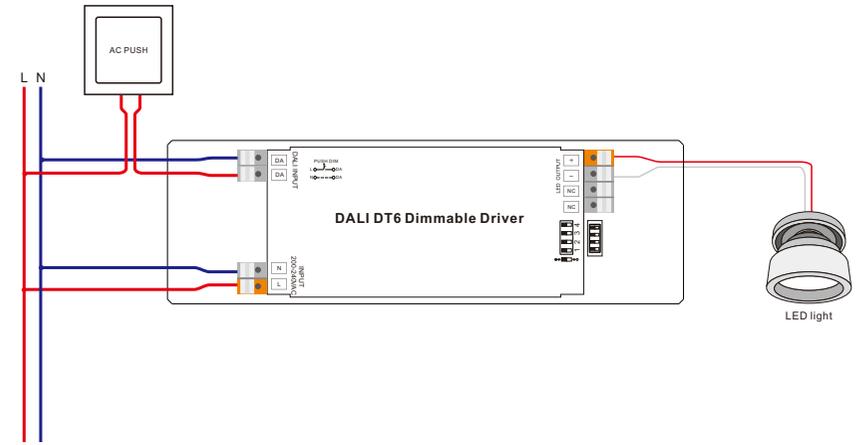
- 1.1. Click the button to switch ON/OFF
- 1.2. Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 0.1% to 100%.
- 1.3. Memory function after power 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



### Product Dimension

