



## Features

- Support DALI-2 pushDIM + pushCCT control
- DALI-2 101,102, 207, 209
- Soft dimming and flicker-free at any brightness
- Dimming range 1~100%,support multiple lights dimming
- Standby power input<0.5W, meets the requirements of ErP certification
- High PF, high efficiency, low THD
- SELV and Class II design, suitable for use inside of the light
- Complies to CE & RCM Standard
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h

## Interfaces

- DALI-2 (DALI-2 DT8)
- PUSH (pushDIM, pushCCT, corridorDIM)

## Functions

- PUSH dimming (pushDIM) with memory
- Support self-contained emergency application
- Protective features  
(short-circuit, overload, no-load protection )

## Suitable for lights

- Suitable for CV strip lights, CV linear lights, floor lights, three-proof lights, etc

## Typical applications

- LED Flexible strips
- LED Signage Modules
- LED Indoor lighting

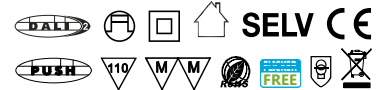
| MODEL                | Input Voltage | Output Power | Output Voltage | Output Current | Dimensions      |
|----------------------|---------------|--------------|----------------|----------------|-----------------|
| T1A2240024V-150EE G2 | 240Vac        | 150W         | 24V            | 6.25A          | 336.6*30*18.2mm |





# T1A2240024V-150EE G2

## SPECIFICATIONS



- DALI-2 DT8 Constant Voltage LED Driver
- Output Wattage : 150W Max
- Flicker Free: O/P Ripple current < 5% (LF)
- Output voltage 24Vdc
- Linear PC Cabinet
- Suitable For Dry Locations
- Application:
  - Suitable for CV Strips, Linear Lights
  - Floor lights etc.

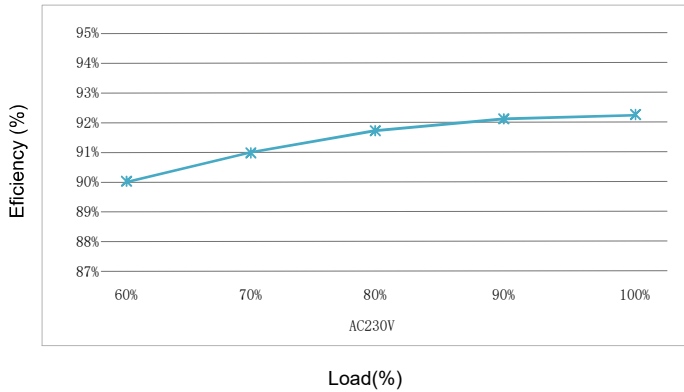
## General Specifications

|                                             |                                                                                                                                                                                                                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated Input Voltage                         | 220-240/240/230VAC, 50/60Hz                                                                                                                                                                                                                                                  |
| Operating Input Voltage Range               | 196-264VAC, 50/60Hz                                                                                                                                                                                                                                                          |
| Input Current                               | <0.9A (AC 240V)                                                                                                                                                                                                                                                              |
| Input Power                                 | 165W                                                                                                                                                                                                                                                                         |
| Power Factor                                | PF>0.95 (230V AC & Full load)                                                                                                                                                                                                                                                |
| THD                                         | <10% (230V AC & Full Load)                                                                                                                                                                                                                                                   |
| Efficiency (Typical)                        | 91%(230V AC & Full Load)                                                                                                                                                                                                                                                     |
| Driver Type                                 | Constant Voltage                                                                                                                                                                                                                                                             |
| Output Current                              | 6.25A                                                                                                                                                                                                                                                                        |
| Output Voltage Range                        | 24V                                                                                                                                                                                                                                                                          |
| Output Power                                | 150W Max. (10W Min.)                                                                                                                                                                                                                                                         |
| No load Power                               | < 0.5W                                                                                                                                                                                                                                                                       |
| Number of Output Channels                   | 2 Channels                                                                                                                                                                                                                                                                   |
| Class                                       | Class II                                                                                                                                                                                                                                                                     |
| Dimming Controller Type/Dimming Range       | DALI-2, DT8, 1%-100%                                                                                                                                                                                                                                                         |
| Ambient Operating Temperature Range         | -10°C to 45°C                                                                                                                                                                                                                                                                |
| Max. Case Temperature                       | 85°C                                                                                                                                                                                                                                                                         |
| Input Surge Protection                      | L-N:1KV,                                                                                                                                                                                                                                                                     |
| Protections                                 | Output Short Circuit : Auto recovery after fault correction<br>Over load : Latch Mode, Auto Recovery after fault correction<br>Output over voltage : Latch Mode, Auto Recovery after fault correction<br>Over temperature : Latch Mode, Auto Recovery after fault correction |
| Dali Standards                              | IEC62386-101,102, 207, 209                                                                                                                                                                                                                                                   |
| Standards                                   | BIS, EN61347/-1/-2-13, EN61547, EN 55015, EN 61000-3-2/3-3, EN62384, EN 62493                                                                                                                                                                                                |
| Withstand Voltage                           | I/P-O/P(LED):3000VAC                                                                                                                                                                                                                                                         |
| Life                                        | Nominal life-time up to 100,000 hrs. 50,000hrs at Tc. 80°C                                                                                                                                                                                                                   |
| Approvals / Class                           | BIS, CE                                                                                                                                                                                                                                                                      |
| Warranty                                    | 5 Years                                                                                                                                                                                                                                                                      |
| IP Rating                                   | IP20                                                                                                                                                                                                                                                                         |
| Weight                                      | 0.230Kg                                                                                                                                                                                                                                                                      |
| Note : Suitable for indoor application only |                                                                                                                                                                                                                                                                              |

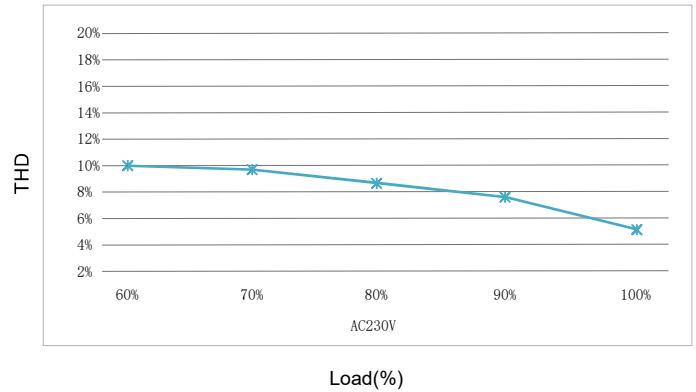
Fulham extends a limited warranty only to the original purchaser or to the first user for a period of **05 years @ Tc 80°C** from the date of manufacture when properly installed and operated under normal conditions of use. For complete terms and conditions, please reference the Fulham Product Catalog ([www.fulham.com](http://www.fulham.com)). Due to a program of continuous improvement, Fulham reserves the right to make modifications or variations in design or construction to the equipment described. © Fulham Company Limited, All Rights Reserved.

### Electrical values

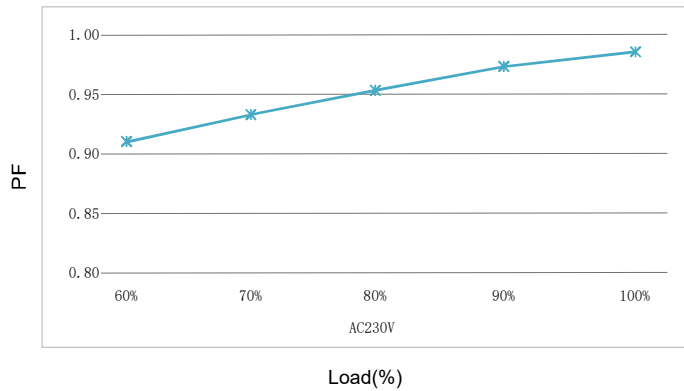
Efficiency vs load



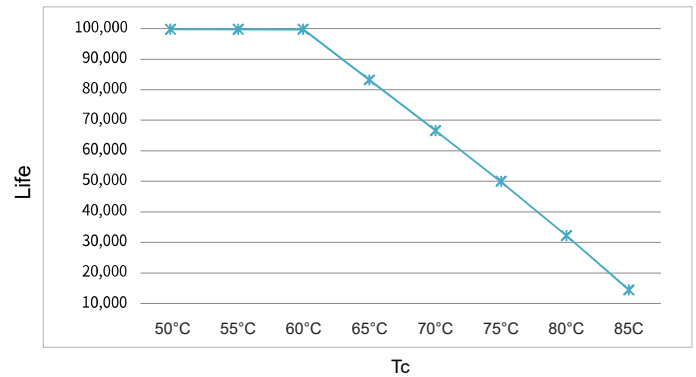
THD vs. Load



Power factor vs. Load

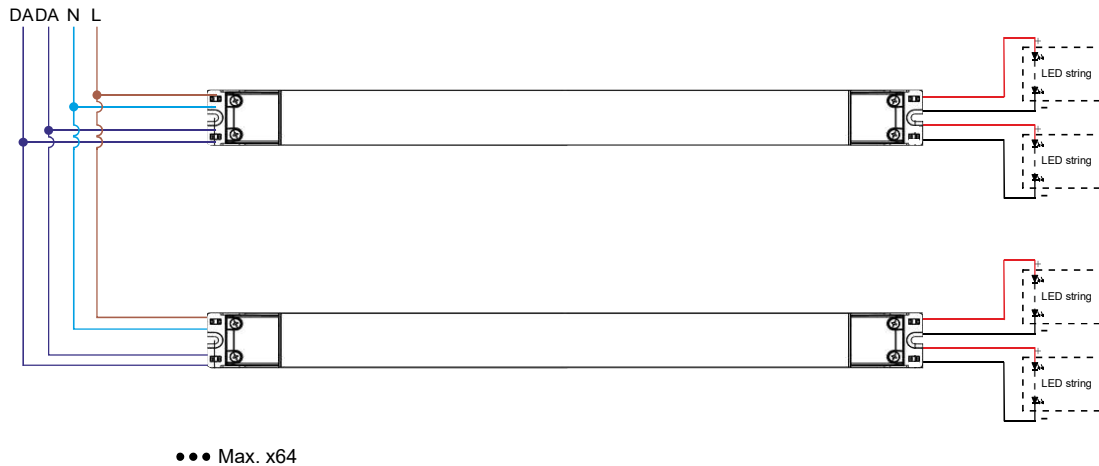


Life vs. Tc curve



## DAI dimming application

### Wiring diagram



### Activating DALI control mode

-After installation according to the wiring diagram of DALI control application,the driver will automatically switch to the DALI control mode after receiving any DALI command.

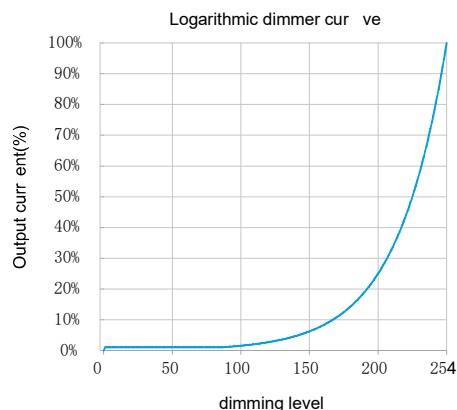
## Remarks:

- Standard DALI control line voltage range : 9.5V to 22.5V, Type 16V.
- The two DALI control lines polarity -reversible
- Max. 64 DALI drivers per DALI control line.
- The maximum distance length of the DALI CONTROL LINE IS 300MM AT 2X1.5MM<sup>2</sup>
- DALI bus can be wired together with any main voltage cables, but separate wiring is recommended.

### Wiring distance vs cable size

| Cable size                      | Distance |
|---------------------------------|----------|
| $2 \times 0.50\text{mm}^2$      | max.100m |
| $2 \times 0.75\text{mm}^2$      | max.150m |
| $2 \times 1.00\text{mm}^2$      | max.200m |
| $\geq 2 \times 1.50\text{mm}^2$ | max.300m |

### Dimming curve



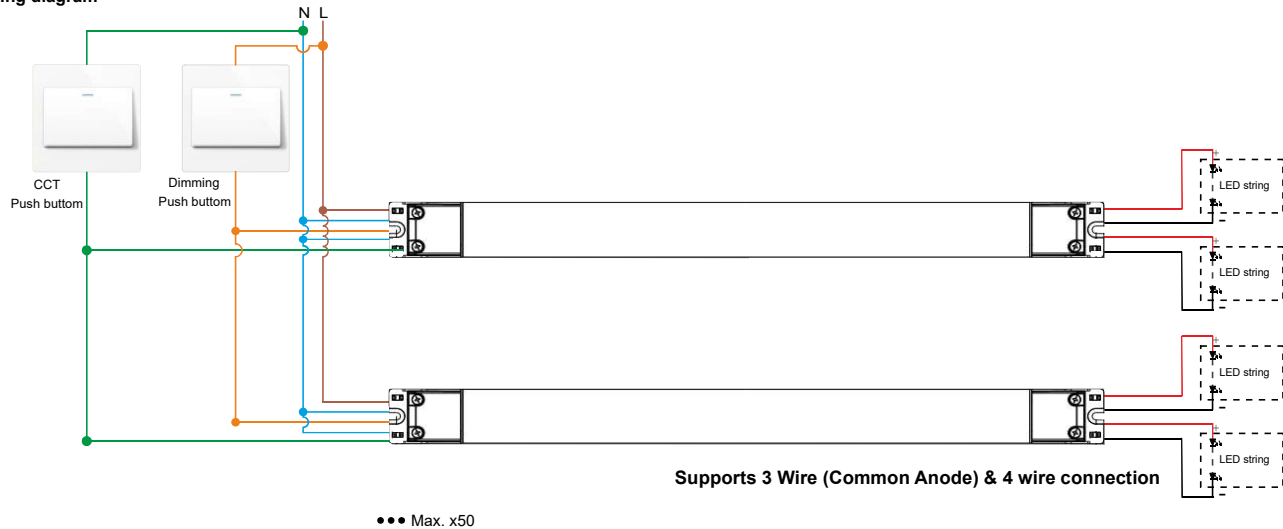
## Remarks:

The dimming curve can be selected by DALI configuration. The default is logarithmic dimming curve.

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## pushDIM dimming application

### Wiring diagram



## Activating pushDIM control mode

- After installation according to the wiring diagram of pushDIM, pushCCT control application, short press the dimming pushbutton (pushDIM port) 5 times within 3 seconds, the driver will automatically switch to pushDIM, pushCCT control mode.
- After activating pushDIM, pushCCT control mode, CorridorDIM mode will be automatically closed.

## Number of mounted drivers

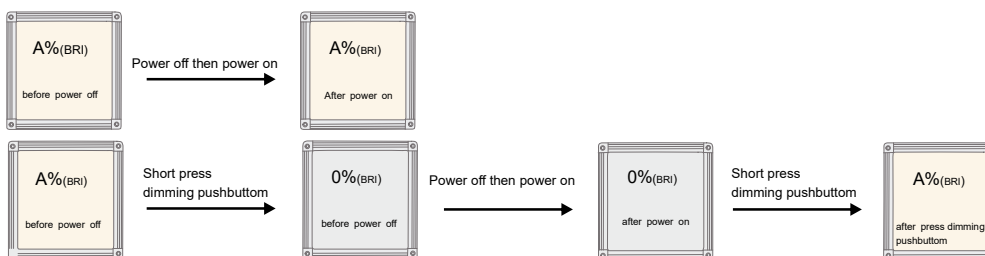
- Up to 50pcs drivers can be mounted.

### Dimming pushbutton operating instructions

- Turn on or turn off: short press dimming pushbutton for 0.2-1s.
- Stepless dimming : long press dimming pushbutton for 1-6s, Press again to switch dimming directions.

**Power on status:**

- After power on,the light state will be the same as the last dimming level and the last CCT level.
- If the light is on before the power is turned off, after turning the power back on, the brightness will be the same as the last time, and the color temperature will be the same as the last time.
- If the light is off before the power is turned off, the light will be turned off after the power is turned back on. You need to press the dimming pushbutton for a short time to turn on the light. The brightness after lighting will be the same as the last time, and the color temperature will be the same as the last time.



### Multiple lights synchronize control operation

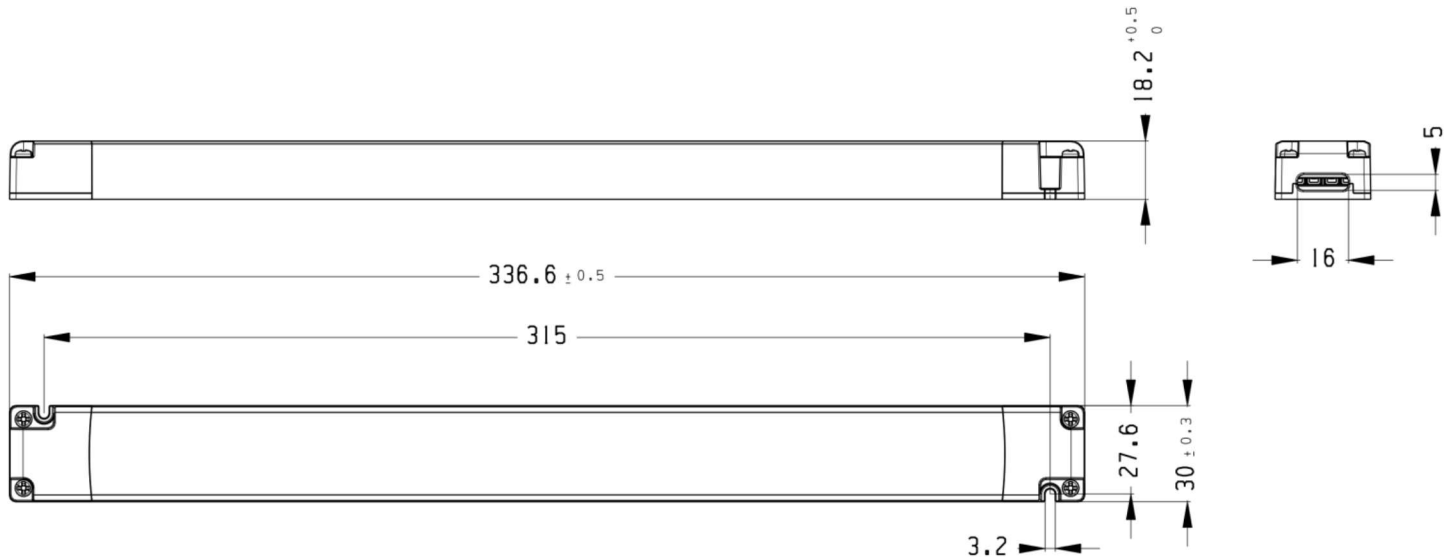
method 1:

- Step 1:long press the dimming pushbutton,confirm each light is on.
- Step 2:short press the dimming pushbutton,confirm each light is off.
- Step 3:long press the dimming pushbutton,confirm each light is from darkest to brightest and all the lights are synchronous.

method 2:

- Long press the dimming pushbutton for more than 15s, all drivers will output 100% brightness and the color temperature is natural white (middle of color temperature range).

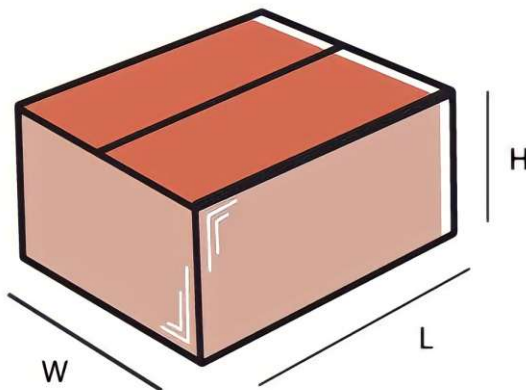
### Mechanical Data :



**Note : All Dimensions are in mm.**

**Tolerance=±0.5mm**

## Packaging



### Master carton

| OUTER DIMENSION |              |          |
|-----------------|--------------|----------|
| L               | W            | H        |
| 350mm           | 150mm        | 125mm    |
| Net Weight      | Gross Weight | QUANTITY |
| 3.8 kg          | 4.4 kg       | 20 pc.   |

### Installation Instructions:

Connect Wires as per details given on the Driver Screen. Keep proper ventilation around the LED Driver and do not stack any object on it. Also a > 8 cm clearance must be kept when the adjacent device is a heat source. Do not exceed the declared Hot spot temperature( $T_{c\max}$ ) under any circumstances.

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