



## Features

- Support DALI-2 pushDIM control
- IP 67
- DALI-2 101,102, 207
- Soft dimming and flicker-free at any brightness
- Dimming range 0.1~100%,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 DT6)
- PUSH (pushDIM,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 Outdoor lighting

MODEL	Input Voltage	Output Power	Output Voltage	Output Current	Dimensions
T1A1240012V-100PES G2	240Vac	100W	12V	8.33A	379*37*21.4mm



- **DALI-2 Constant Voltage LED Driver**
- **Output Voltage: 12V**
- **Output Current: 8.33A**
- **Flicker Free: O/P Ripple current < ±5%**
- **Sleek Linear Form factor, IP 67**
- **Output Wattage : 100W Max**
- **Aluminum Extrusion**
- **Suitable For wet Locations**
- **Application:**
  - Outdoor LED Flexible strips.
  - LED Industrial Lighting.
  - Subway station Lighting.

## General Specifications

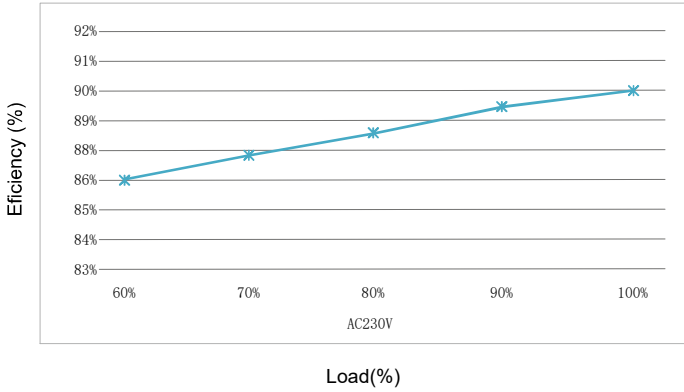
Rated Input Voltage	220-240/240/230VAC, 50/60Hz
Operating Input Voltage Range	196-264VAC,50/60Hz
Input Current	<0.7A (AC 240V)
Input Power	110W
Power Factor	PF>0.95 (230V AC & Full load)
THD	<10% (230V AC & Full Load)
Efficiency (Typical)	90%(230V AC & Full Load)
Driver Type	Constant Voltage
Output Current	8.33A
Output Voltage Range	12V
Output Power	100W Max.
No load Power	< 0.5W
Number of Output Channels	1 Channels
Class	Class I
Dimming Controller Type/Dimming Range	DALI-2, DT6, 0.1%-100%
Ambient Operating Temperature Range	-20°C to 60°C
Max. Case Temperature	80°C
Input Surge Protection	L-N 1KV / L/N-E 2KV
Protections	Output Short Circuit : Auto recovery after fault correction Over load : Latch Mode, Auto Recovery after fault correction Output over voltage : Latch Mode, Auto Recovery after fault correction Over temperature : Latch Mode, Auto Recovery after fault correction
Dali Standards	IEC62386-101,102, 207
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, Input-gnd:1500V
Life	Nominal life-time up to 100,000 hrs. 50,000hrs at Tc. 80°C
Approvals / Class	BIS, CE
Warranty	5 Years
IP Rating	IP 67
Weight	0.600Kg

Note : Suitable for Outdoor application

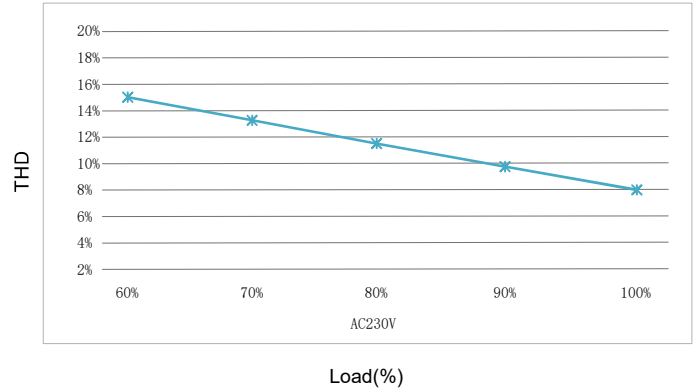
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### Electrical values

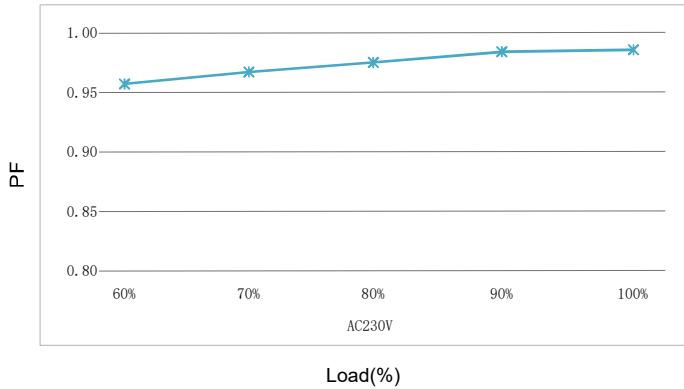
Efficiency vs load



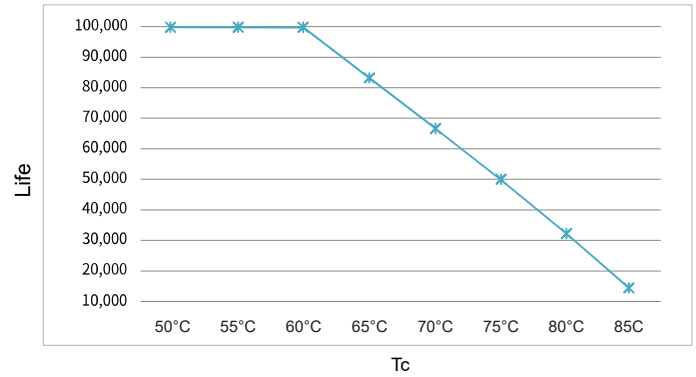
THD vs. Load



Power factor vs. Load



Life vs. Tc curve

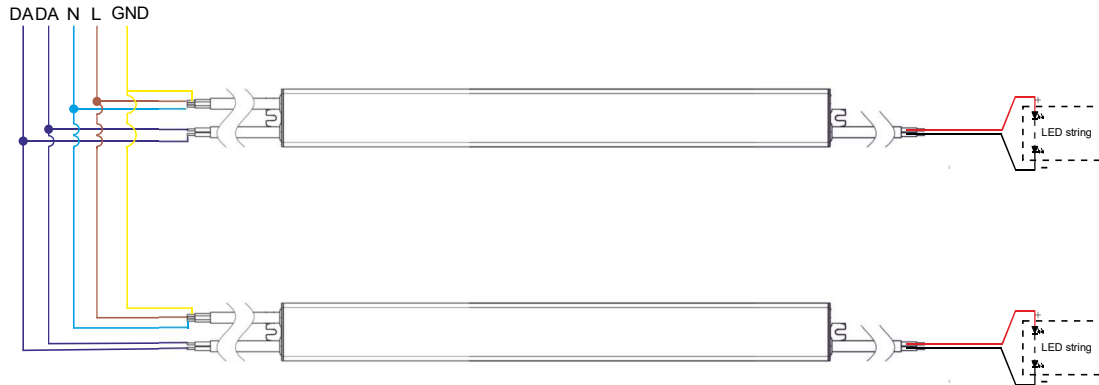


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### DALI dimming application

Wiring diagram

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.

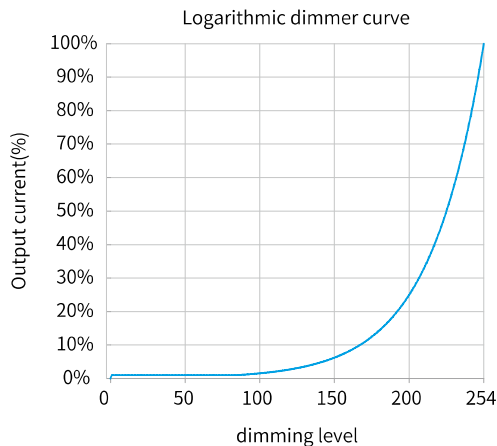
#### Remarks:

- 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 300m at  $2 \times 1.5\text{mm}^2$ .
- DALI bus can be wired together with any mains 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

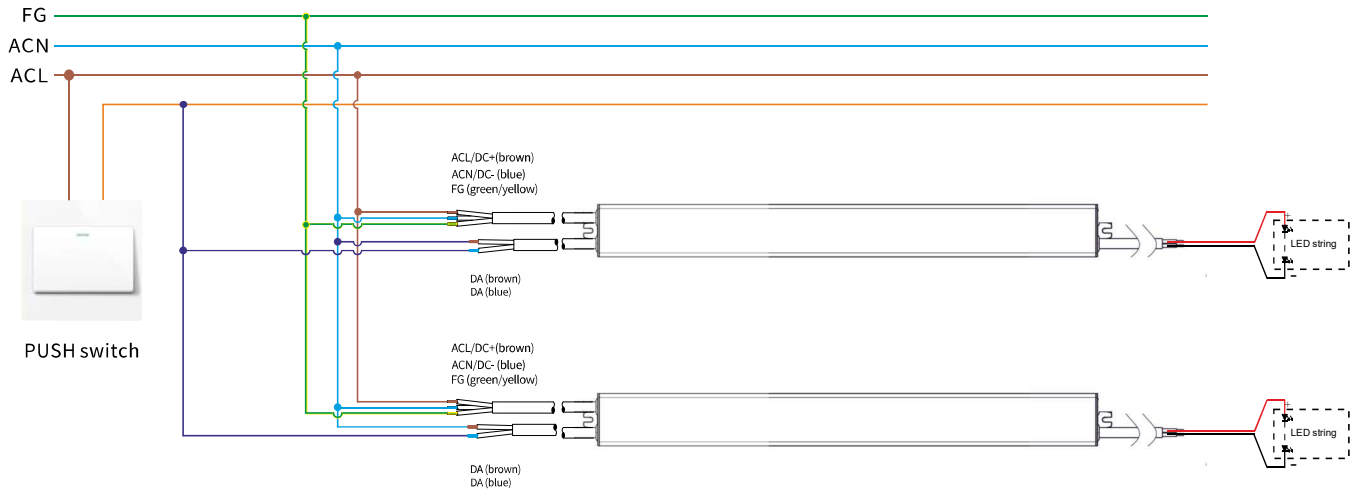
### Dimming curve



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

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### PUSH dimming application



Wiring diagram

### Switch to the pushDIM dimming mode

After installation according to the wiring diagram of pushDIM dimming application, long press the pushbutton 3 times ,then the driver will automatically switch to the pushDIM dimming mode.

#### Remarks:

Max. 50 drivers per pushDIM control line.

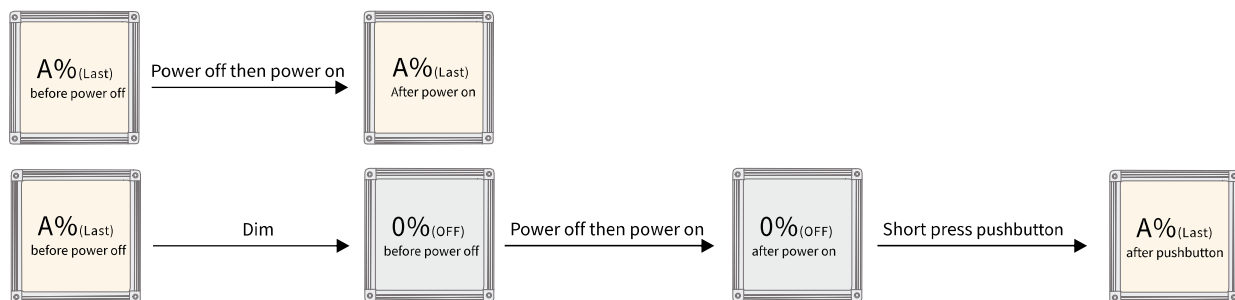
Turn on or turn off:short press pushbutton for 0.2-1s.

Dimming: long press pushbutton for 1-5s.

Power on status: after power on,the light state will be the same as the lighting on state.

If the light is on before power on,the light will be on after power on again,brightness will be the same as the last lighting on brightness.

If the light is off before power off,the light will be off after power on again,short press the pushbutton,then the light will be on,the brightness will be the same as the last brightness.



### Multiple lights synchronize control operation

method 1:

Step 1:long press the pushbutton,confirm each light is on.

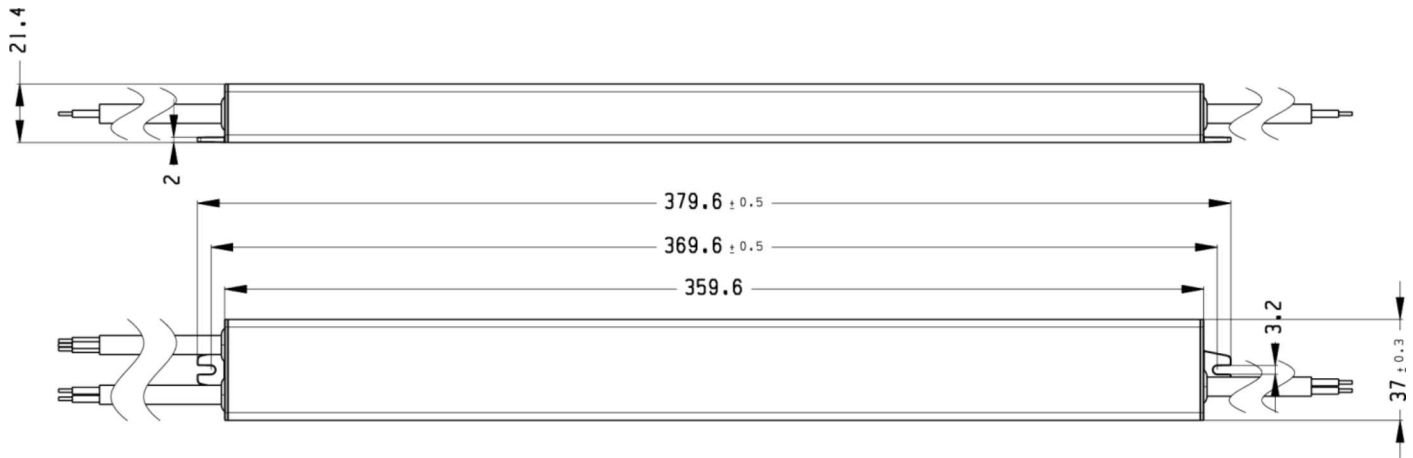
Step 2:short press the pushbutton,confirm each light is off.

Step 3:long press the pushbutton,confirm each light is from darkest to brightest and all the lights are synchronous.

method 2:

- Long press the pushbutton 15s,all lights output to the brightest state.

### Mechanical Data :

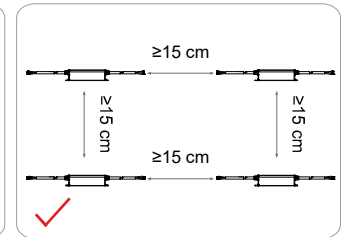
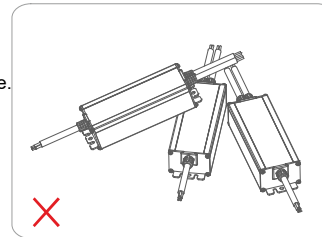


**Note : All Dimensions are in mm.**

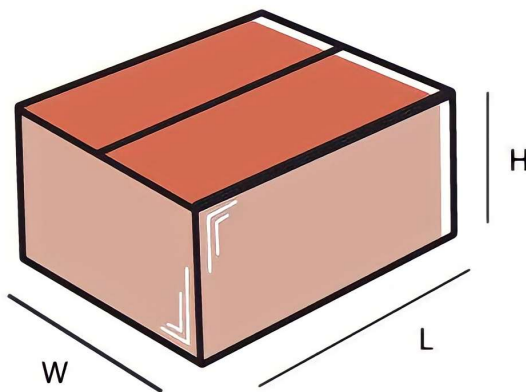
**Tolerance=±0.5mm**

### Installation Instruction

- The driver should be installed in a dry, acid-free, oil-free, fat-free environment.
- The installation ambient temperature of the drive shall not exceed the value of Ta at any time.
- The temperature of the mounting surface of the driver should be lower than 40°C
- The driver should keep a certain distance from the heating stuff (such as the lamp radiator).



### Packaging



#### Master carton

OUTER DIMENSION		
L	W	H
410mm	195mm	185mm
Net Weight	Gross Weight	QUANTITY
6.00 kg	6.7 kg	10 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 10-15 cm clearance must be kept when the adjacent device is a heat source. Do not exceed the declared Hot spot temperature(Tc max) under any circumstances.

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