

## FEATURES

- Supports DALI-2 + PUSH DIM Control + NFC
- Inbuilt CLO Function
- Compliance to DALI-2 PART 101, 102, 207, 251, 252, 253
- DALI Function setting through NFC
  - a. O/P Current setting in step of 1mA.
  - b. Set Min-Max level.
  - c. Set system failure level.
  - d. Set power on level.
  - e. Set address manually 0 to 63.
  - f. Create Groups manually 1 to 16.
  - g. Set Fade time.
  - h. Set fade rate.
  - i. change dimming curve manually Linear OR Logarithmic.
  - j. Set Scenes manually.
- SELV CLASS II Design.
- Dimming range 0.1% to 100%.
- High PF, Low THD, High Efficiency.
- CE, Flicker free.
- Life 50,000hrs.
- Suitable for indoor use only.

## INTERFACE

- DALI-2 DT6
- PUSH-DIM

## FUNCTIONS

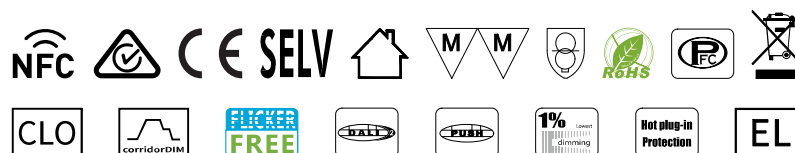
- Memory function
- Suitable for emergency lighting (EL)
- Protection features  
(short circuit, open circuit, over load, no load, hot plug-in)

## SUITABLE FOR LIGHTS

- Suitable for Linear lights, tri-proof lights, working lights and other linear or ultra thin lights.

## TYPICAL APPLICATIONS

- LED Indoor lighting.
- LED Office lighting.
- LED Commercial lighting.



- |  |   |   |
|--|---|---|
| <ul style="list-style-type: none"> <li>• Dimmable Constant Current 1-Channel LED Driver with DALI DT6</li> <li>• Support DALI dimming function</li> <li>• Dimming range 0.1 to 100%</li> <li>• NFC Programable</li> <li>• DALI PART 101, 102, 207, 251, 252 &amp; 253</li> </ul> | <ul style="list-style-type: none"> <li>• Inbuilt CLO Function</li> <li>• Output Wattage : 10W Max</li> <li>• Output voltage range of 3-42Vdc</li> <li>• Output Current: 100 - 500mA</li> <li>• Flicker-free Output ripple current &lt;5%</li> </ul> | <p><b>Application</b></p> <ul style="list-style-type: none"> <li>- LED indoor lighting</li> <li>- LED office lighting</li> <li>- LED architectural lighting</li> <li>- LED panel lamp lighting</li> </ul> |
|--|---|---|

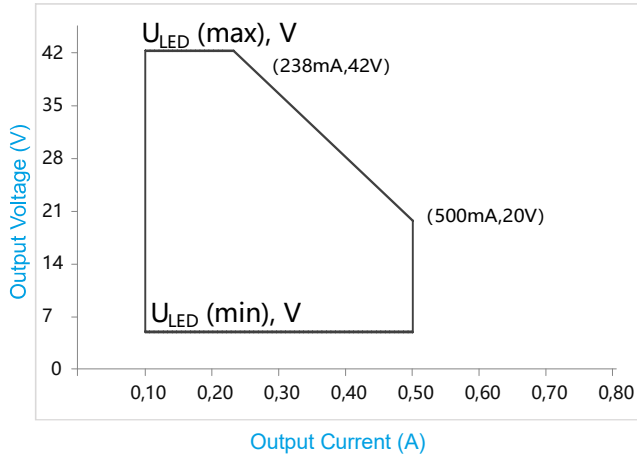
## General Specifications

Rated Input Voltage	240VAC ±10%, 50/60Hz	
Operating Input Voltage Range	196-264VAC, 50/60Hz	
Input Current Max.	0.10 @ 230Vac	
Input Power	13.3W	
Power Factor (Typical)	0.96	
Power Factor (Min)	0.92 @ 230Vac Max Voltage full load	
THD	<15% @ 230Vac Full Load	
Efficiency (Typical)	75%	
Driver Type	Constant Current DALI-2	
Output Current	100mA to 500mA ±5% (Current setting through NFC, with step of 0.1mA) Default 250mA *Refer Voltage vs O/P current graph	
Output Voltage Range	3-42Vdc	
Dimming Controller Type	DALI-2 (Amplitude/CCR dimming)	
Output Power	10W	
Output ripple current	<5%, Flicker Free at 100Hz	
Number of Output Channels	1 Channel	
Output Type	Class II	
Ambient Operating Temperature Range	-20°C to 60°C	
Max. Case Temperature	85°C	
Input Surge Protection	2KV	
Protections	Input Over Current	: Non Resettable (Fuse)
	Output Short Circuit	: Auto Recovery (HICCUP Mode)
	Output Open Circuit	: Auto Recovery (HICCUP Mode)
	Output Overload	: YES
	Over Temperature	: Auto Recovery (HICCUP Mode)
Standards	EN55015, EN61000-3-2, EN61000-3-3 EN61547, EN61000-4-2,3,4,5,6,8,11 EN61347-1, EN61347-2-13 IEEE1789	
Withstand Voltage	I/P-O/P:3750Vac, I/P-FG:1750Vac, O/P-FG:500Vac, I/P-DALI:500Vac	
Leakage Current	<0.5mA @ 240Vac	
Isolation resistance	I/P-O/P:100MΩ / 500Vdc / 25°C / 70% RH	
Life	50,000 Hours @ 75°C	
Approvals / Class	SELV Equivalent	
Warranty	5 Years at Tc 75°C	
Weight	0.095 Kg	

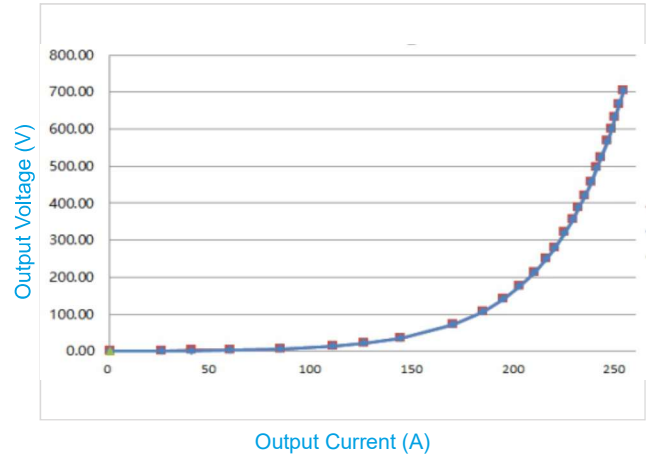
Note : Suitable for indoor application only

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### Voltage and current operating window

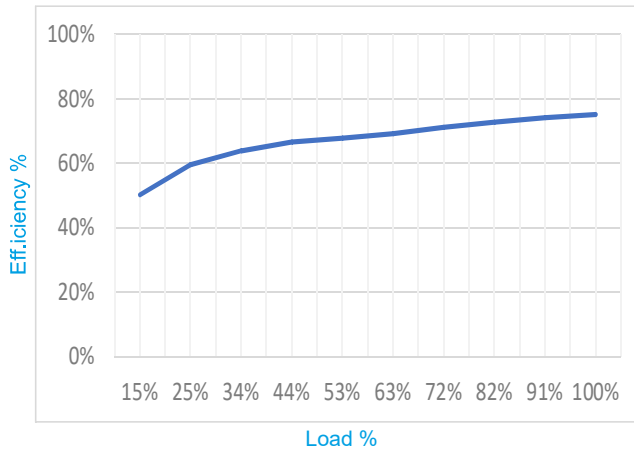


### Dimming Curve

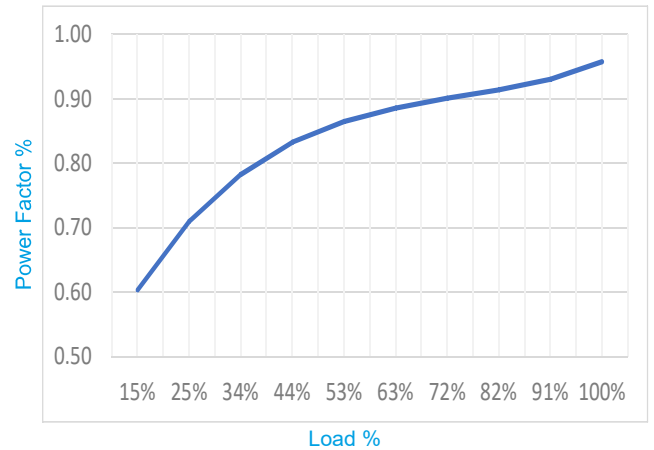


Remarks: The default is logarithmic dimming curve.

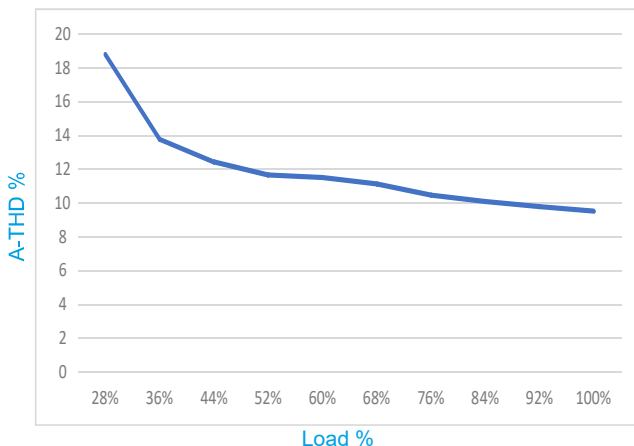
### Typical Efficiency Vs Load %



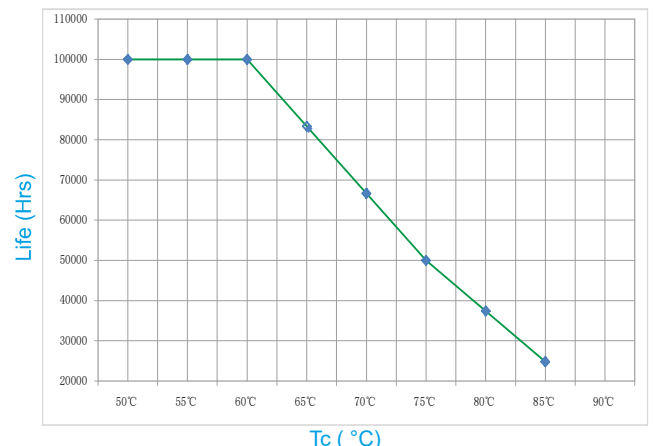
### Power factor vs Load



### A-THD Vs Load %

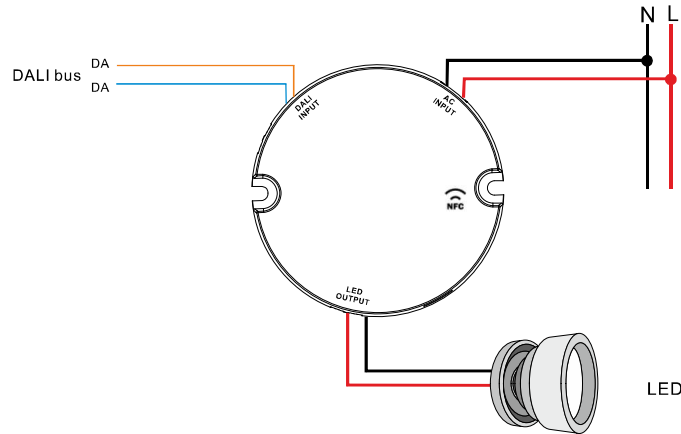


### Life VS Tc



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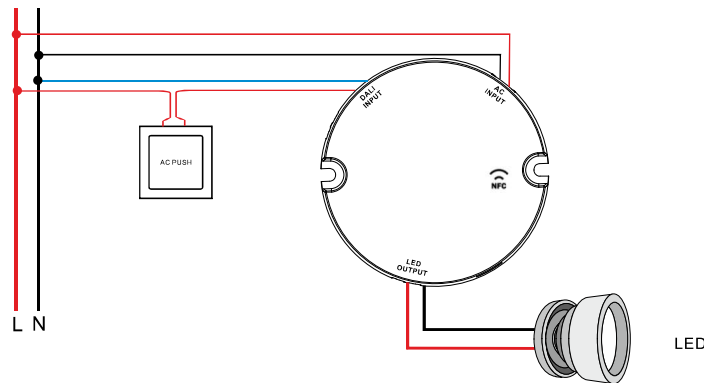
### DALI dimming application



### 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.

### PUSH dimm



### Using PUSH DIM controls:

After installation according to the wiring diagram of PUSH-DIM control application,

1. Press PUSH switch it will increase the Brightness, release the witch and again press PUSH switch it will Reduce the Brightness.

### Multiple lights synchronize control operation

method 1: Step 1: long press the PUSH-DIM switch, confirm each light is on.

Step 2: short press the PUSH-DIM switch, confirm each light is off.

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

method 2: - Long press the PUSH-DIM dimming switch for more than 15s, all drivers will output 100% brightness and the color temperature is natural white (middle of color temperature range).

### Remarks:

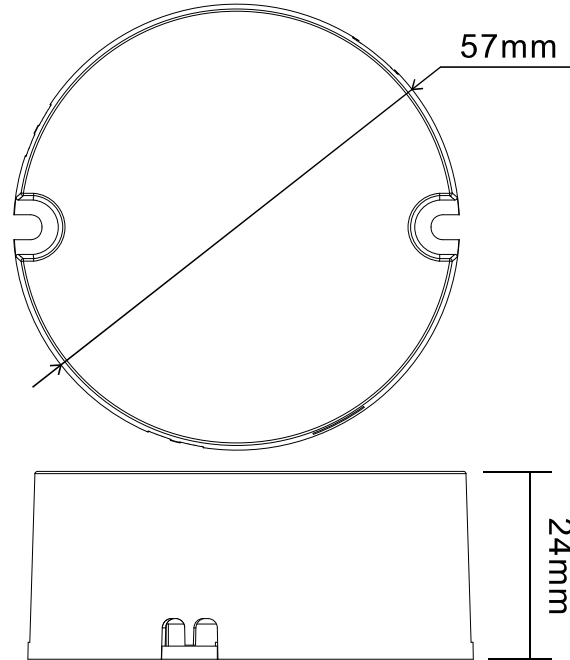
- Standard DALI control line voltage range: 9.5V to 22.5V, type 16V.
- The two DALI control lines polarity-reversible.
- Max. 64 DALI drivers per DALI control line.
- The maximum distance length of the DALI control line is 300m at  $2 \times 1.5\text{mm}^2$ .
- DALI bus can be wired together with any 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

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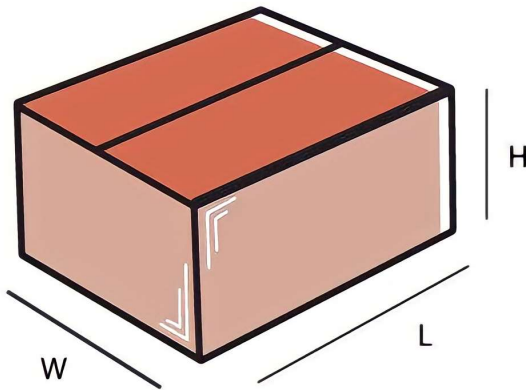
**Mechanical Data :**



Note : All Dimensions are in mm.

Tolerance=±0.5mm

**Packaging**



**Master carton**

OUTER DIMENSION		
L	W	H
195mm	195mm	165mm
Net Weight	Gross Weight	QUANTITY
4.28 kg	4.35 kg	45 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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