

### 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.
- Nominal Life 100,000hrs.
- Suitable for indoor use only.

### INTERFACE

- DALI-2 DT6
- PUSH-DIM

### FUNCTIONS

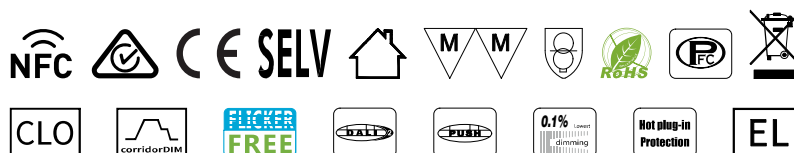
- Memory function
- Suitable for emergency lighting (EL)
- Protection features  
(short circuit, open circuit, over load, no load, hot plug-in)

### 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.



- **Dimmable Constant Current 1-Channel LED Driver with DALI DT6**
- **Support DALI dimming function**
- **Dimming range 0.1 to 100%**
- **NFC Programable**
- **DALI PART 101, 102, 207, 251, 252 & 253**
- **Inbuilt CLO Function**
- **Output Wattage : 15W Max**
- **Output voltage range of 6-42Vdc**
- **Output Current: 100 - 700mA**
- **Flicker-free Output ripple current <5% LF**
- **Application**
  - LED indoor lighting
  - LED office lighting
  - LED architectural lighting
  - LED panel lamp lighting

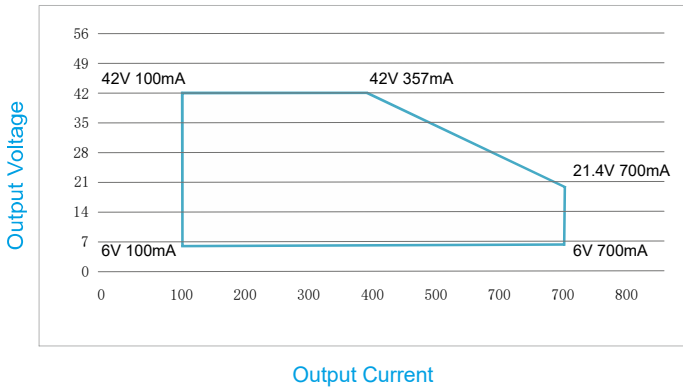
## General Specifications

Rated Input Voltage	240VAC ±10%, 50/60Hz
Operating Input Voltage Range	196-264VAC, 50/60Hz
Input Current Max.	0.10 @ 230Vac
Input Power	20W
Power Factor	>0.92 @ 230Vac Full Load
THD	<10% @ 230Vac Full Load
Efficiency	76%
Driver Type	Constant Current DALI-2
Output Current	100mA to 700mA ±3% (Current setting through NFC, with step of 0.1mA) <b>Default Current setting 350mA</b> *Refer Voltage vs O/P current graph
Output Voltage Range	6-42Vdc
Dimming Controller Type	DALI-2 (Amplitude/CCR dimming)
Output Power	15W
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 45°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 @ 80°C
Approvals / Class	SELV Equivalent
Warranty	5 Years at Tc 80°C
Weight	0.080 Kg

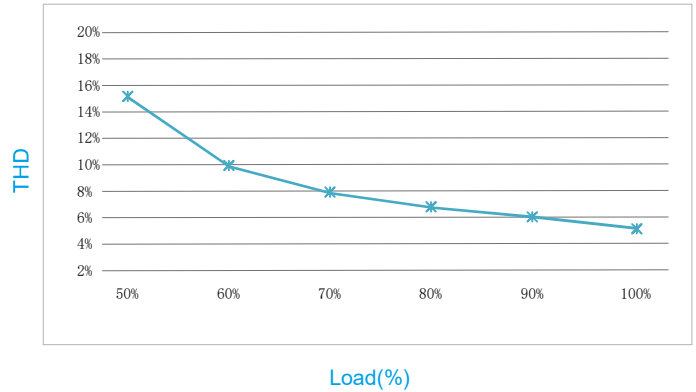
Note : Suitable for indoor application only

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### Output Voltage Vs Output Current

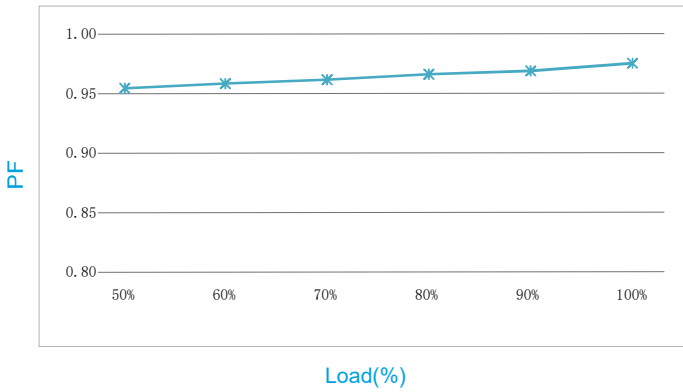


### THD vs. Load

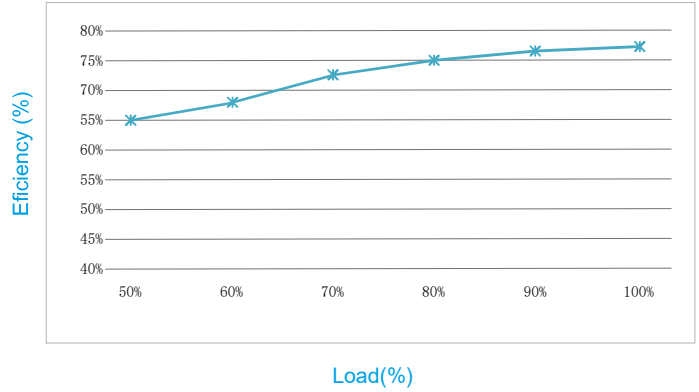


\* Default Current - 350mA

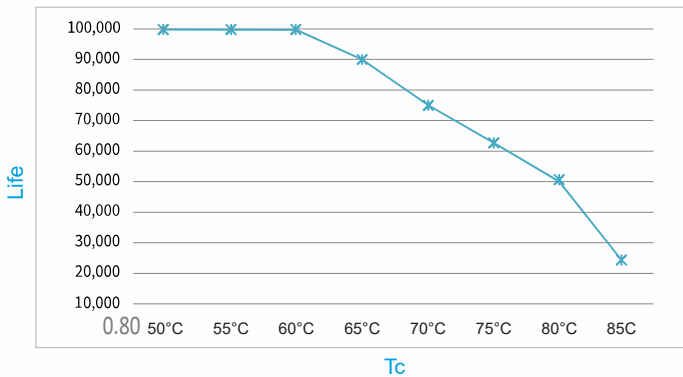
### Power factor vs. Load



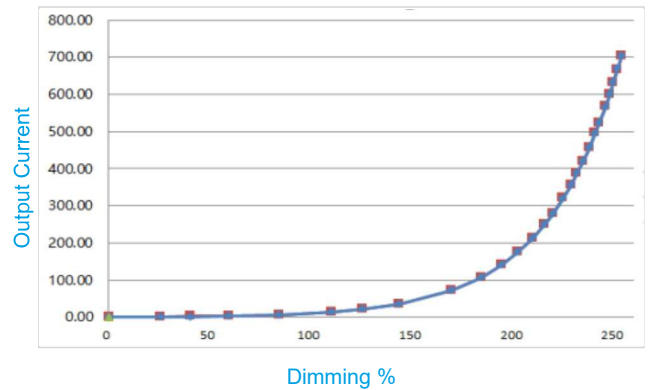
### Efficiency vs load



### Life vs. Tc curve



### Dimming Curve



Remarks: The default is logarithmic dimming curve.

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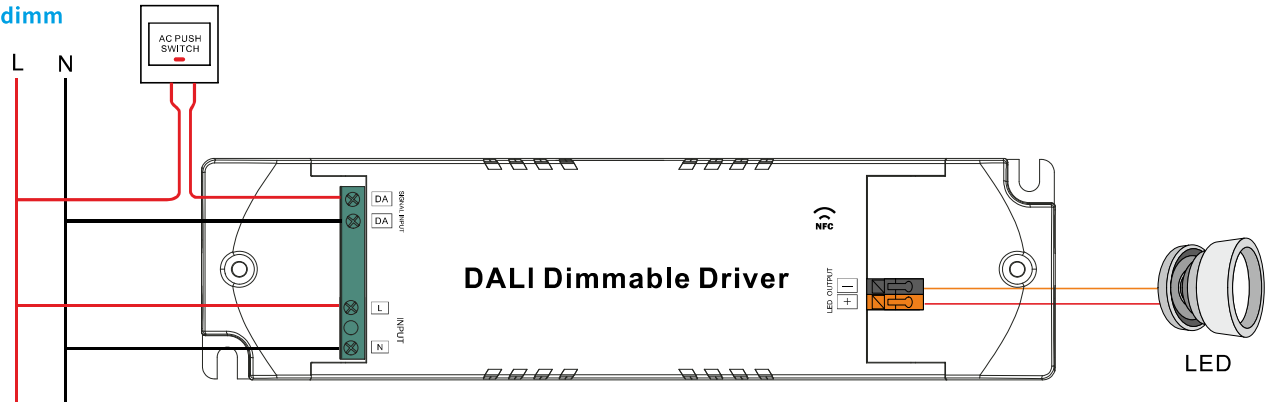
### DALI dimming application



### 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:

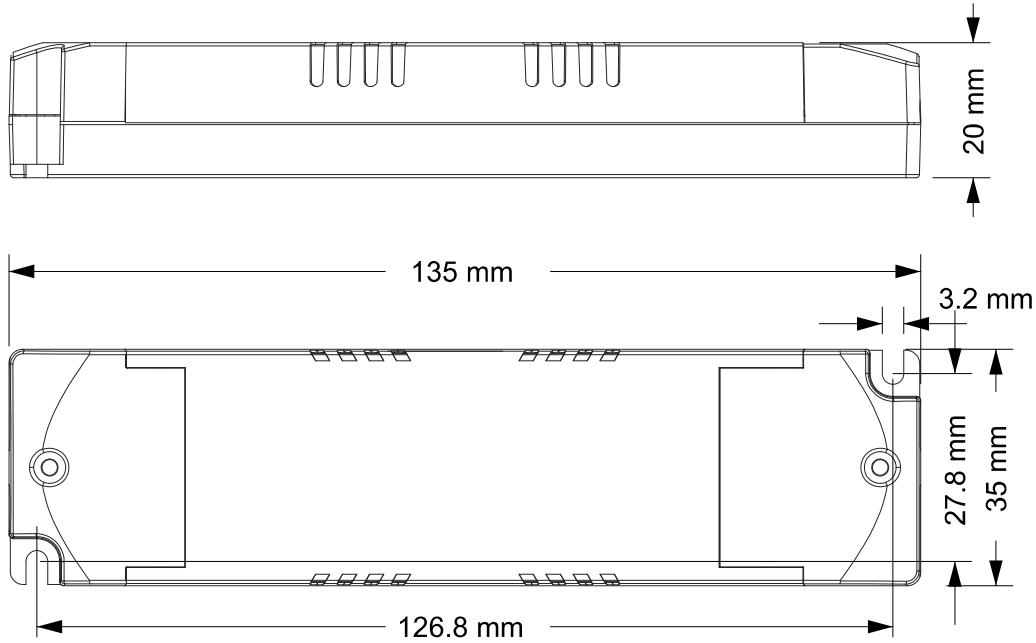
- Standard DALI control line voltage range: 9.5V to 22.5V, type 16V.
- The two DALI control lines polarity-reversible.
- Max. 64 DALI drivers per DALI control line.
- The maximum distance length of the DALI control line is 300m at  $2 \times 1.5\text{mm}^2$ .
- DALI bus can be wired together with any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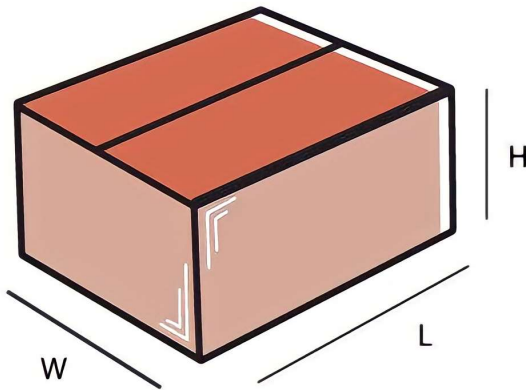
**Mechanical Data :**



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

**Tolerance=±0.5mm**

**Packaging**



**Master carton**

OUTER DIMENSION		
L	W	H
185mm	150mm	140mm
Net Weight	Gross Weight	QUANTITY
3.20 kg	3.60 kg	30 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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