

Features

- Support DALI-2 DT6 dimming mode
- No polarity of input
- 13-level current output can be realized by DIP-switch
- Soft dimming and flicker-free at any brightness, meets the new requirements of ErP certification
- Using HPC patented technology, at any dimming level, the brightness of the luminaries is the same
- Dimming range 0.1%~100%, output current accuracy 2%
- Standby power input < 0.5W, meets the requirements of ErP certification
- Suitable for STUCCHI standard housing
- Compliance with CE, DALI-2 and other certifications
- Nominal life-time up to 50,000 h

Interfaces

- DALI-2(DALI-2 DT6)

Functions

- Protective features (short-circuit, Overload, no-load)

Suitable for lights

- Suitable for DC track light

Typical applications

- LED indoor lighting
- LED office lighting
- LED architectural lighting
- LED commercial lighting



- **DALI-2 Constant Current LED Driver**
- **Suitable for Input supply 48Vdc.**
- **Multiple current selection through dip switch.**
- **Output Current: 100 - 700mA**
- **Flicker Free: O/P Ripple current < 10%**
- **Output Wattage : 30W Max**
- **Output voltage range of 6-42Vdc**
- **TO be used with Magnetic track housing**
- **Compact form factor**
- **Suitable For Dry Locations**
- **Application**
- Magnetic track lights

General Specifications

Rated Input Voltage	48Vdc (+/-0.5V)
Operating Input Voltage Range	48Vdc
Input Current	<0.67 @ 48Vdc
Input Power	33W
Efficiency (Typical)	92%
Driver Type	Constant Current DALI-2
Output Current	700mA ±5%, 650mA ±5%, 600mA ±5%, 550mA ±5%, 500mA ±5%, 450mA ±5%, 400mA ±5%, 350mA ±5%, 300mA ±5%, 250mA ±5%, 200mA ±5%, 150mA ±5%, 100mA ±5%
	*Refer DIP switch Table for O/P current selection
Output Voltage Range	6-42Vdc
Output Power	30W
Number of Output Channels	1 Channel
Dimming Controller Type	DALI-2
Ambient Operating Temperature Range	-10°C to 45°C
Max. Case Temperature	NA (Ambient operating temperature should not exceed specified limits)
Protections	Output Short Circuit : Auto Recovery (HICCUP Mode) Output Open Circuit : Auto Recovery (HICCUP Mode) Output Overload : YES
certifications	CE, RoHS, DALI-2, EN61347-1, EN61347-2-11, En55015, EN61000-4-2 IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)
Withstand Voltage	I/P-DALI: 1500V AC, O/P-DALI: 1500V AC.
Isolation resistance	I/P-O/P:100MΩ / 500Vdc / 25°C / 70% RH
Life	50,000 Hours @ Ta 45°C
Warranty	5 Years
Weight	0.012 Kg

Note : Suitable for indoor application only
when the driver is used with the luminaire, the EMC of the whole luminaire needs to be tested.
All Parameters at full load 48Vdc.

DIP Switch Chart :

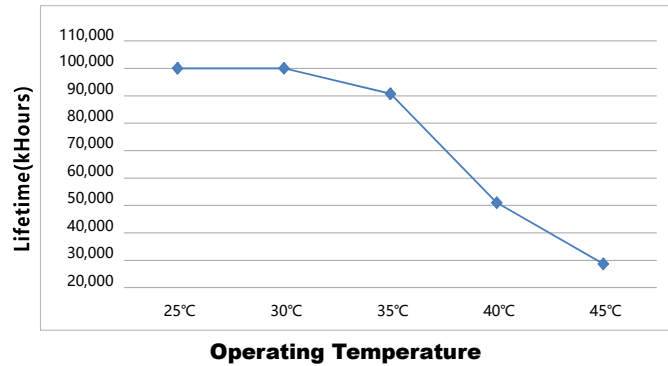
Prated(W)	Output		1	2	3	4
	I-rated(mA)	Voltage(Vdc)				
4.2	100 ★	6-42	--	--	--	--
6.3	150	6-42	--	--	--	ON
8.4	200	6-42	--	--	ON	--
10.5	250	6-42	--	--	ON	ON
12.6	300	6-42	--	ON	--	--
14.7	350	6-42	--	ON	--	ON
16.8	400	6-42	--	ON	ON	--
18.9	450	6-42	--	ON	ON	ON
21.0	500	6-42	ON	--	--	--

Prated(W)	Output		1	2	3	4
	I-rated(mA)	Voltage(Vdc)				
23.1	550	6-42	ON	--	--	ON
25.2	600	6-42	ON	--	ON	--
27.3	650	6-42	ON	--	ON	ON
29.4	700	6-42	ON	ON	--	--

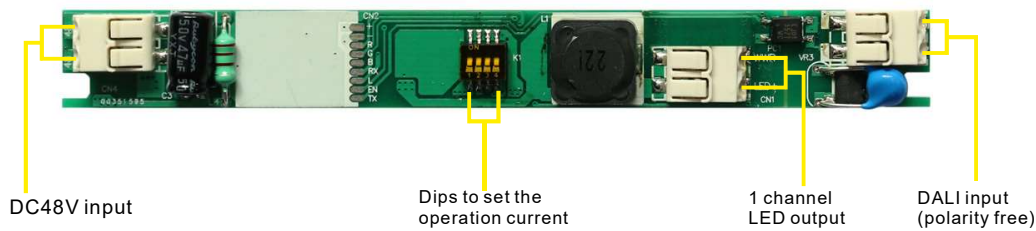
Remark: ★ this current is factory default.
-- this Switch is off.

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Life vs. Operating Temperature



DALI dimming application



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 2x 1.5mm
- DALI bus can be wired together with any mains voltage cables, but separate wiring is recommended.
- The configuration parameters of the driver can be set through the DALI configuration tool or DALI application controller during installation, such as setting device address, group address, power-on level, bus-failure level, scene level, fade time, dimming curve, etc.

Please refer to the table below

Cable size	Distance
2x 0.50mm ²	max.100m
2x 0.75mm ²	max.150m
2x 1.00mm ²	max.200m
≥ 2x 1.50mm ²	max.300m

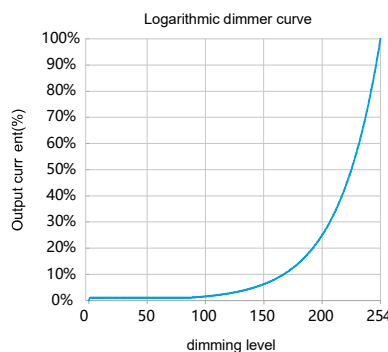
Power-on level :

When the driver is in DALI-2 dimming mode, the factory default level after each power-on is the brightest

The power-on level can be set through the DALI configuration tool or DALI application controller during installation, and can be set to memory or fixed any brightness (such as off, darkest, 50%, etc.).

Note: The recommended setting for the default factory power-on level of the DALI-2 driver is the brightest in the DALI-2 standard.

Dimming curve

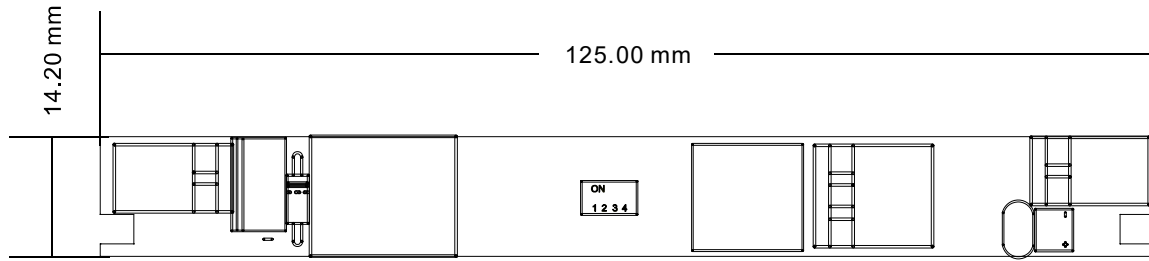


Remarks: The dimming curve can be selected by DALI configuration.

The default is logarithmic dimming curve

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Mechanical Data :



L125 x W14.2 x H10.5

Note : All Dimensions are in mm.

Tolerance=±0.5mm

Installation note

LED Hotplug-in

- If a LED load is connected the device has to be restarted.
- Restart can be achieved by re-powering the driver or executing a on/off command (action) through the control interface (DALI).

Wiring guide lines

- All connections must be kept as short as possible to ensure good EMI behaviour.
- Max. length of output wires is 0.5 m.
- Incorrect wiring can damage LED modules.

Installation requirements

- The driver should be installed in a dry, acid-free, oil-free, fat-free environment
- The installation ambient temperature of the driver shall not exceed the value of Ta at any time.
- **Please be careful not to damage the electronics during assembly .**
- **All electronic components shall not be squeezed after assembly.**

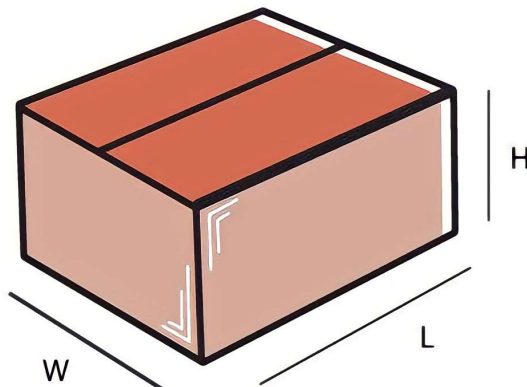
Mounting screw specifications and torque

- Max. torque at the clamping screw: 0.5 Nm / M4

ReplaceLED module

1. Mains off
2. Remove LED module
3. Wait for 5 seconds
4. Connect LED module again

Packaging



Master carton

OUTER DIMENSION		
L	W	H
380mm	270mm	280mm
Net Weight	Gross Weight	QUANTITY
6.7 kg	7.1 kg	300 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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