

## Features

- Support DALI-2 dimming mode
- 4-level current output can be realized by DIP-switch
- Soft dimming and flicker-free at any brightness
- Dimming range 1~100%, output current accuracy 1%
- Standby power input<0.5W, meets the requirements of ErP certification
- High PF, high efficiency, low THD
- Screw-free and pressing type strain relief, supports thicker cables and is easier to install
- Independent input and output strain relief, stronger wiring
- Intelligent LED hot-plug protection function
- SELV and Class II design, suitable for use outside of the light
- Passed ENEC-TUV,CE,RCM,CCC,DALI-2 and other certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 50,000 h

## Interfaces

- DALI-2(DALI-2 DT6)

## Functions

- Support central emergency application (dimming normal in DC input)
- Support self-contained emergency application
- Protective features (short-circuit,no-load, hot plug-in protection )

## Suitable for lights

- Suitable for lights with independent drivers such as downlights, spotlights, panel lights, etc
- Not suitable for lights with built-in drivers

## Typical applications

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





# T1A1240025S-10FE

## SPECIFICATIONS



- DALI-2 Constant Current LED Driver
- Multiple current selection through dip switch.
- Output Current: 150 - 250mA
- Flicker Free: O/P Ripple current < 10%
- Output Wattage : 10.5W Max
- Output voltage range of 3-42Vdc
- Inbuilt Cable Clamp for Independent Installation
- Compact Housing
- Suitable For Dry Locations
- Application - Shop, Retail & Hospitality

### General Specifications

Rated Input Voltage	200-240Vac,50/60Hz
Operating Input Voltage Range	180-264Vac,50/60Hz
Input Current	<0.1 @ 230Vac
Input Power	12.8W
Power Factor	>0.95 @ 230Vac/Full Load, >90 @ 230Vac/>50% Load
THD	<15% @ 230Vac/Full Load, THD <20% @ 230Vac/>50% Load
Efficiency (Typical)	82%
Driver Type	Constant Current DALI-2
Output Current	250mA ±5%, 200mA ±5%, 175mA ±5%, 150mA ±5% *Refer DIP switch Table for O/P current selection
Output Voltage Range	3-42Vdc
Output Power	10.5W
Number of Output Channels	1 Channel
Output Type	Class II
Dimming Controller Type	DALI-2
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)
Safety Standards	EN61347-1/2-13, GB19510.1/14, En62384, IEEE1789
Withstand Voltage	I/P-O/P:3750Vac
Leakage Current	<0.7mA @ 230Vac
Isolation resistance	I/P-O/P:100MΩ / 500Vdc / 25°C / 70% RH
Life	50,000 Hours @ 80°C
Approvals / Class	SELV Equivalent
Warranty	3 Years
Weight	0.110 Kg

Note : Suitable for indoor application only

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### DIP Switch Chart :

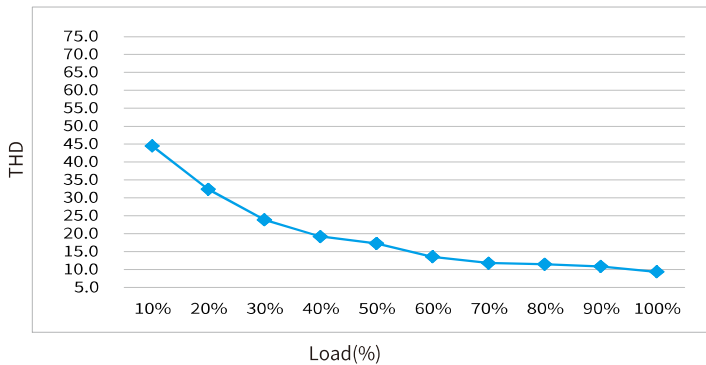
Remark: ★ this current is factory default.

— this Switch is off.

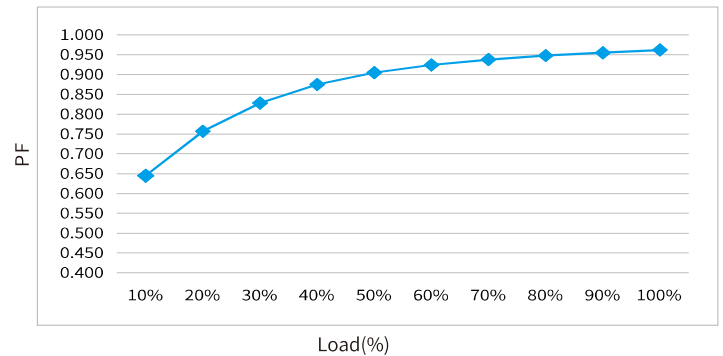
Switching selection sheet					
PINtyp.	Irated	Output Voltage	Prated	1	2
8.0W	150mA	3-42VDC	6.3W	ON	ON
9.2W	175mA	3-42VDC	7.35W	—	ON
10.4W	200mA	3-42VDC	8.4W	ON	—
12.8W	250mA★	3-42VDC	10.5W	—	—

Before use, always check dipswitch settings!

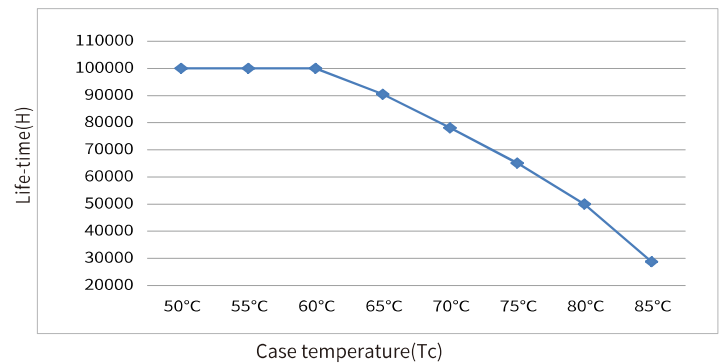
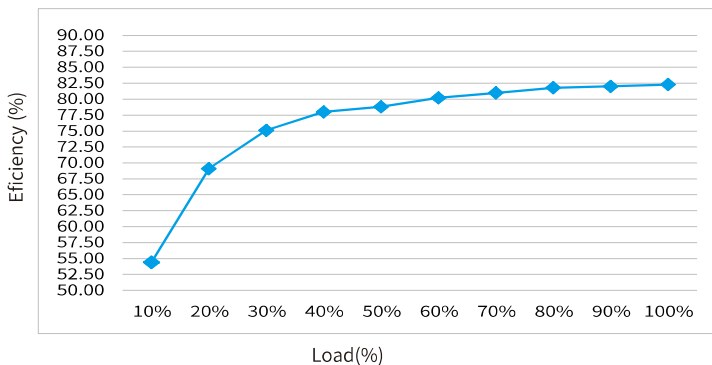
Total Harmonic Distortion vs LOAD Characteristic curve



Power Factor vs LOAD Characteristic curve



EFFICIENCY vs LOAD Characteristic curve

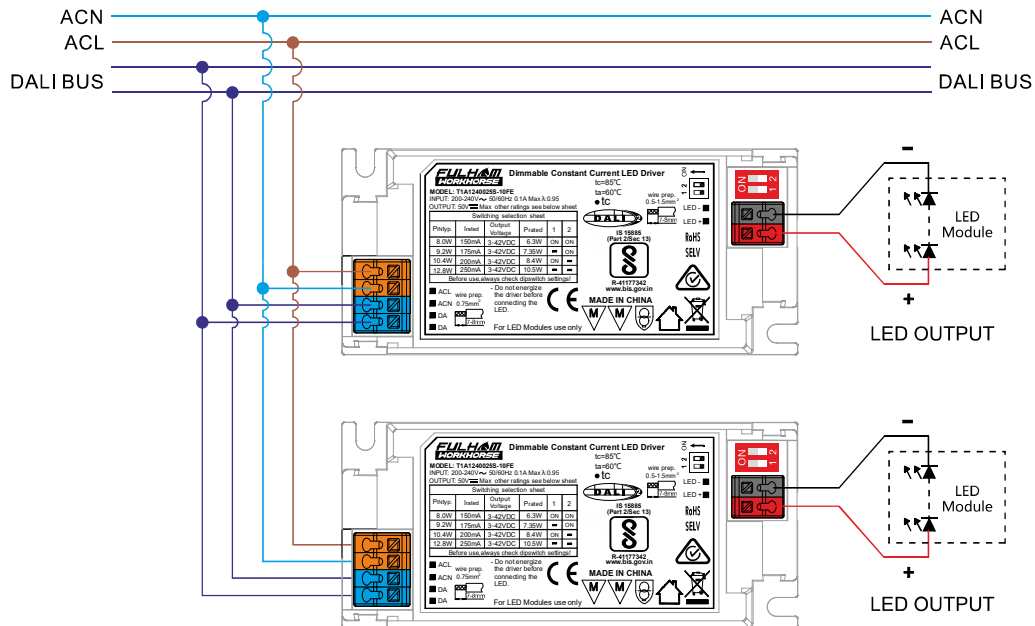


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### DALI dimming application

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.

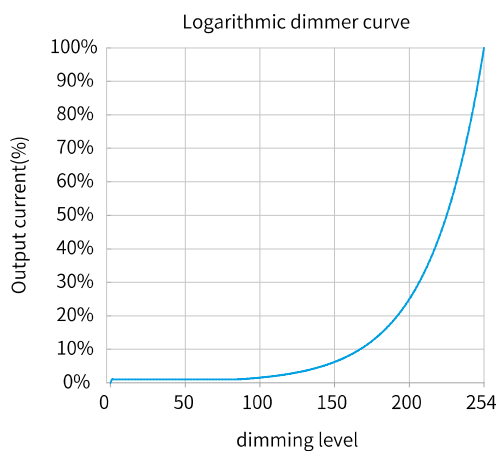
### Remarks:

- 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 300m at 2 × 1.5mm<sup>2</sup>.
- 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 × 0.50mm <sup>2</sup>	max.100m
2 × 0.75mm <sup>2</sup>	max.150m
2 × 1.00mm <sup>2</sup>	max.200m
≥ 2 × 1.50mm <sup>2</sup>	max.300m

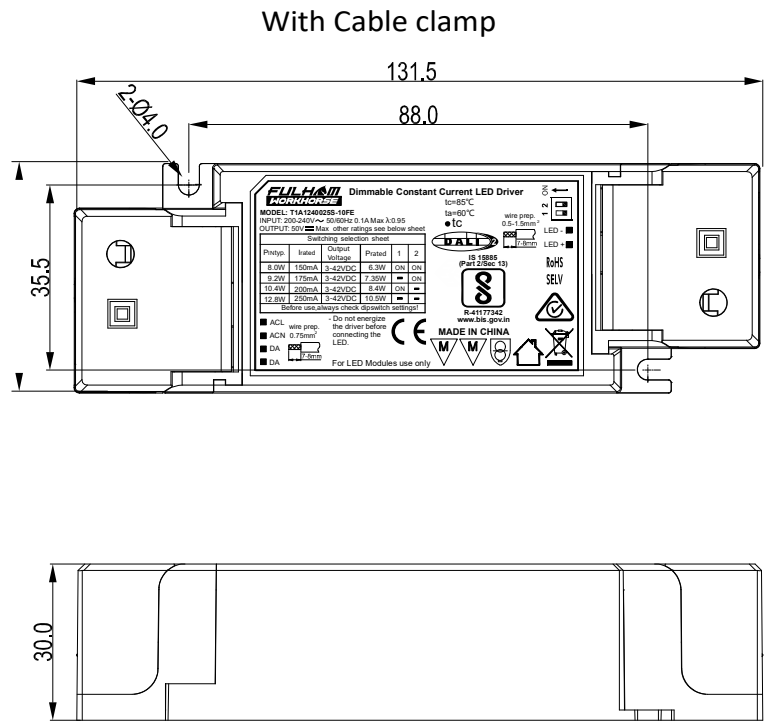
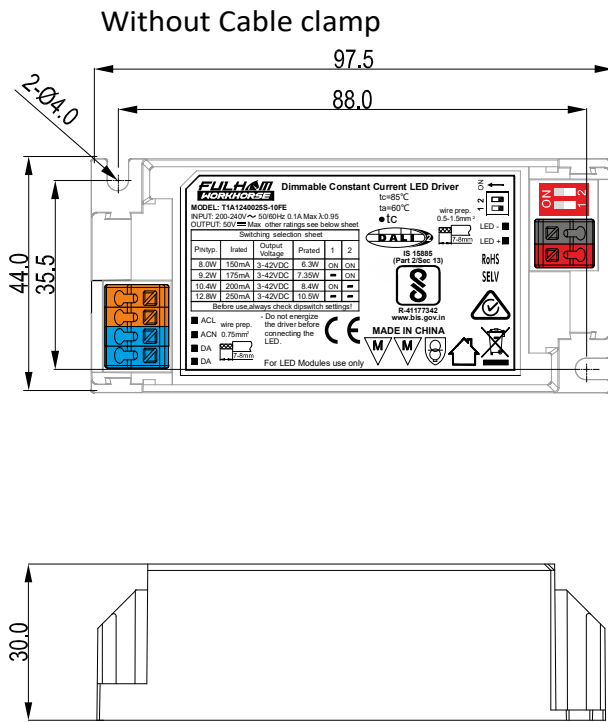
### Dimming curve



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

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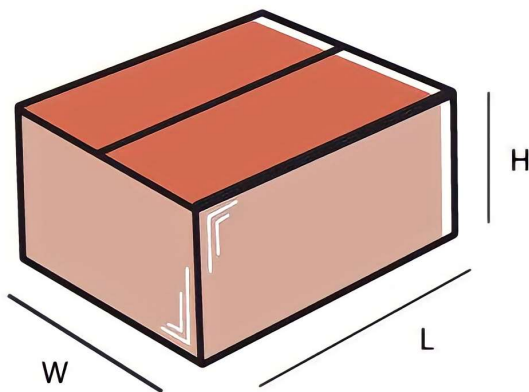
**Mechanical Data :**



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

**Tolerance=±0.5mm**

**Packaging**



**Master carton**

OUTER DIMENSION		
L	W	H
450mm	350mm	180mm
Net Weight	Gross Weight	QUANTITY
7.50 kg	8.28 kg	72 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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