

Features

- Support DALI-2+pushDIM dimming mode
- 8-level current output can be realized by DIP-switch
- Soft dimming and flicker-free at any brightness
- Using HPC patented technology, at any dimming level, the brightness of the lights is the same
- Dimming range 1~100%, output current accuracy 3%
- 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 inside of the light
- Comply with CE,DALI-2 certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5-year guarantee

Interfaces

- DALI-2 (DALI-2 DT6)
- PUSH (pushDIM)

Functions

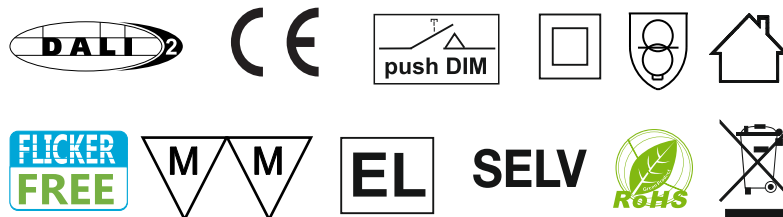
- Support central emergency application (dimming normal in DC input)
- Support self-contained emergency application
- Protective features (short-circuit, overload,no-load, hot plug-in protection)

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



- | | | |
|--|---|--|
| • Dimmable Constant Current LED Driver | • Output Wattage : 10W Max | • Application: |
| • Multiple current selection through dip switch. | • Output voltage range of 12-30/36/39/42Vdc | - Suitable for indoor SELV application |
| • Output Current: 100 - 350mA | • Suitable For Dry Locations | - Suitable for downlights, spotlights, panel lights, etc |
| • Flicker Free: O/P Ripple current < 10% | | |

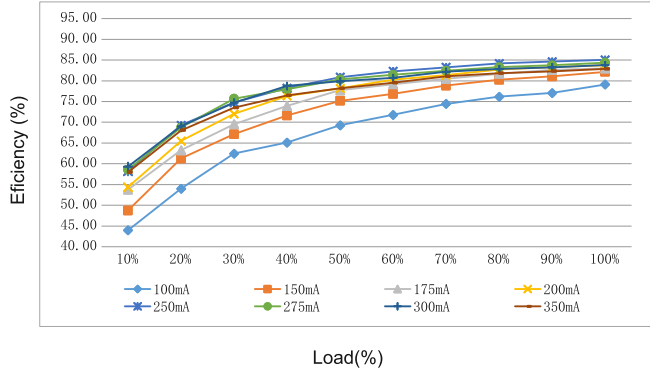
General Specifications

Rated Input Voltage	200-240VAC, 200-240VDC, 0/50/60Hz
Operating Input Voltage Range	180-264VAC, 180-264VDC
Input Current	<0.09A (Rated input voltage)
Input Power	13.4W
Power Factor	PF>0.94 (230V AC & Full load), DF>0.96 (230V AC & Full load)
THD	≤10% (230V AC & Full Load)
Efficiency (Typical)	≥80.5%(230V AC & Full Load)
Driver Type	Constant Current DALI-2
Output Current	100mA, 150mA, 175mA, 200mA, 250mA@12-42VDC, 275mA@12-39VDC, 300mA@12-36VDC, 350mA@12-30VDC ± 5% * Refer DIP switch Table for O/P current selection.
Output Voltage Range	12-30/36/39/42Vdc
No Load Output Voltage	50VDC
Output Power	10.8W Max
Number of Output Channels	1 Channel
Class	Class II
Dimming Controller Type/Dimming Range	DALI 2.0, 1%-100%
Ambient Operating Temperature Range	-20°C to 60°C
Max. Case Temperature	90°C
Input Surge Protection	L-N:2KV(Performance criterion:A)
Protections	Output Short Circuit : Yes Output Open Circuit : Yes Output Overload : Yes
Dali Standards	IEC62386-101, 102, 207
Withstand Voltage	I/P-O/P(LED):3750V AC, I/P-DALI: 1500V AC, O/P-DALI: 3750V AC.
Isolation resistance	I/P-FG:100MΩ/500Vdc/25°C/70% RH
Life	Nominal life-time up to 100,000 h
Approvals / Class	BIS, CE
Warranty	5 Years
Weight	76gm

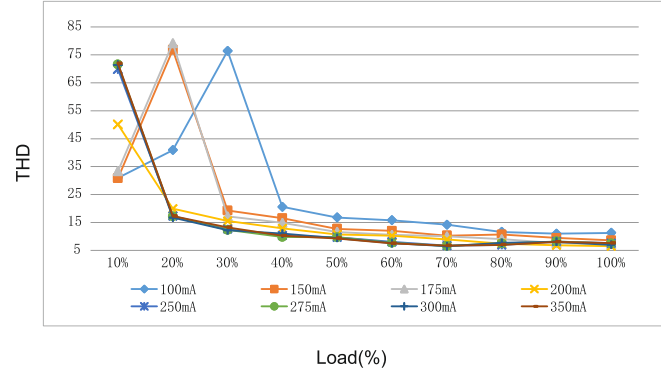
Note : Suitable for indoor application only

Electrical values

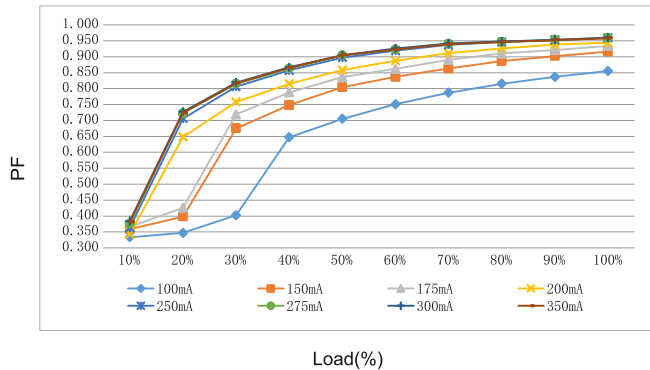
Efficiency vs load



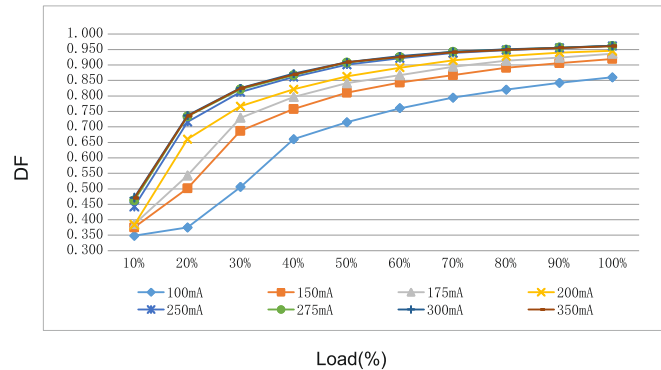
THD vs. Load



Power factor vs. Load



Displacement factor vs. Load



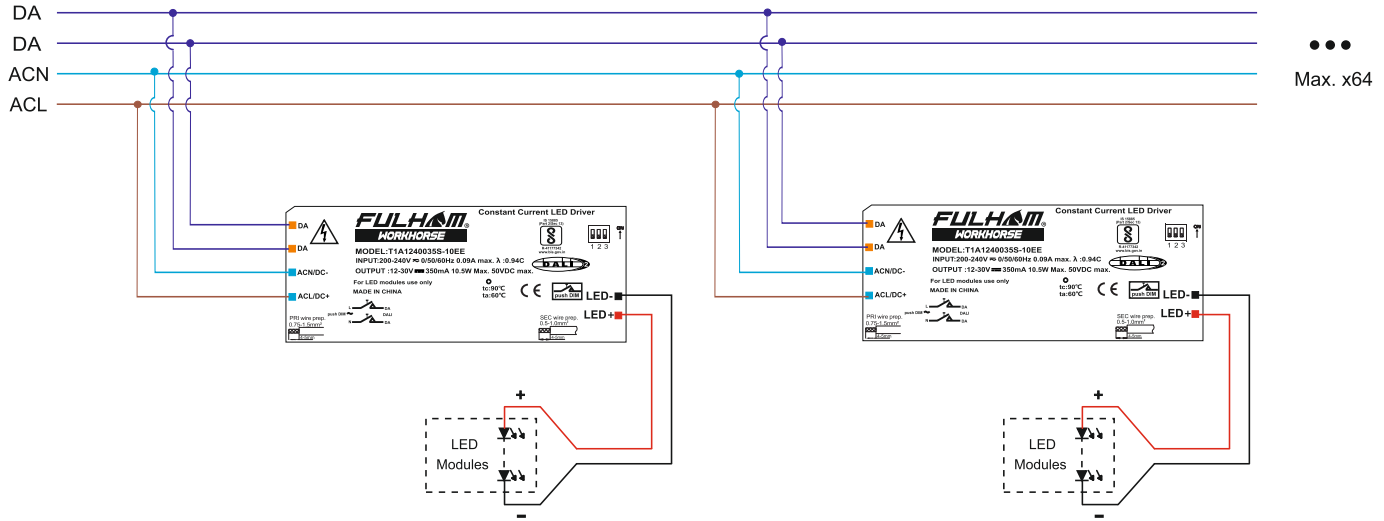
DIP-switch & output current

Prated(w)	Output		1	2	3
	Irated(mA)	Voltage(Vdc)			
4.20	100	12-42	ON	ON	ON
6.30	150	12-42	--	ON	ON
7.35	175	12-42	ON	--	ON
8.40	200	12-42	--	--	ON
10.5	250	12-42	ON	ON	--
10.73	275	12-39	--	ON	--
10.8	300	12-36	ON	--	--
10.5	350	12-30	--	--	--

Remark: ☒ This current is factory default.
☐ This Switch is off.

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.

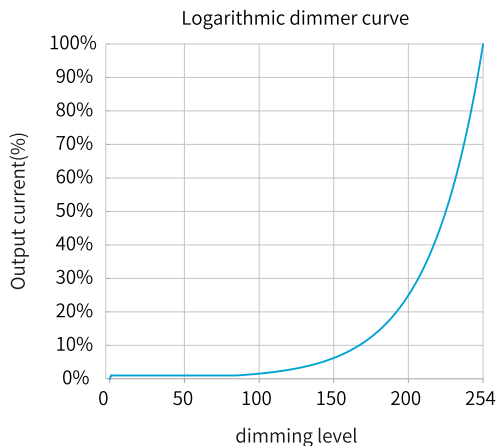
Remarks:

- 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 $2 \times 1.5\text{mm}^2$.
- 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

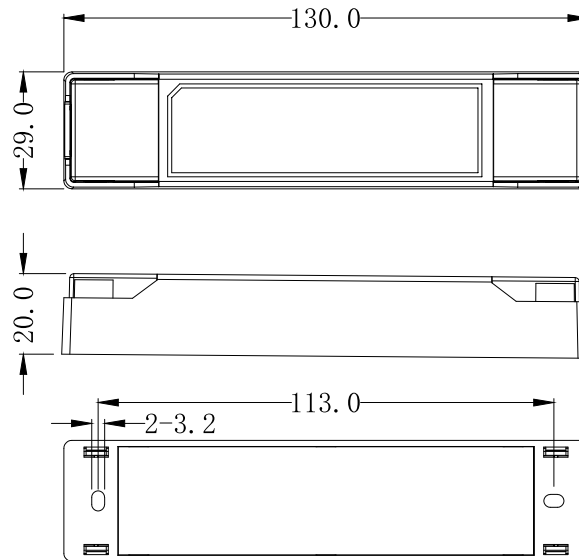


Remarks: The dimming curve can be selected by DALI configuration. The default is logarithmic dimming curve.

Installation

Mechanical dimensions

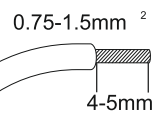
Unit:mm



INPUT

Numbering	function	colour
1	ACL/DC+	orange
2	ACN/DC-	orange
3	DA	blue
4	DA	blue

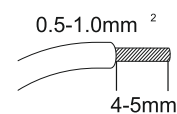
Input wire



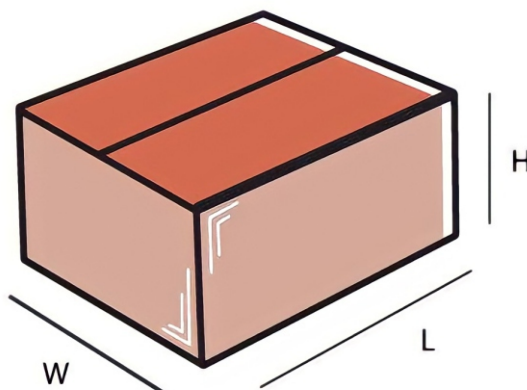
OUTPUT

Numbering	function	colour
1	LED-	black
2	LED+	red

Output wire



Packaging



Master carton

OUTER DIMENSION		
L	W	H
450mm	350mm	180mm
Net Weight	Gross Weight	QUANTITY
5.47 kg	6.5 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.

Fulham extends a limited warranty only to the original purchaser or to the first user for a period of **05 years @ Tc 90°C** from the date of manufacture when properly installed and operated under normal conditions of use. For complete terms and conditions, please reference the Fulham Product Catalog (www.fulham.com). Due to a program of continuous improvement, Fulham reserves the right to make modifications or variations in design or construction to the equipment described. © Fulham Company Limited, All Rights Reserved.