



## Features

- Input and output non-isolated
- Support DALI-2+pushDIM dimming mode
- Suitable for emergency lighting acc. to EN 50172
- 16-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 3~100%, output current accuracy 5%
- Standby power input < 0.5W, meets the requirements of ErP certification
- High PF, high efficiency, low THD
- Suitable for built-in use of Class I lamps
- Passed CE, DALI-2 certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5 Years warranty

## Interfaces

- DALI-2(DALI-2 DT6)

## Functions

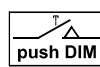
- Support central emergency application (dimming normal in DC input)
- Support self-contained emergency application
- Protective features (short-circuit, no-load protection, overload protection)

## Suitable for lights

- Suitable for luminaries with built-in driver such as track light
- Not suitable for luminaries with external drivers

## Typical applications

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



- **Non-Isolated Constant current LED Driver DT6**
- **Support DALI dimming and tunable white function**
- **Support PUSH dimming and tunable white function**
- **Dimming range 1 to 100%**
- **Multiple current selection through dip switch.**
- **Output Wattage : 76.5W Max**
- **Output voltage range of 54-200Vdc**
- **Output Current: 100 - 450mA**
- **Flicker-free at any brightness,meeting the standard of flicker-free(IEEE 1789-2015)**
- **Application**
  - LED indoor lighting
  - LED office lighting
  - LED architectural lighting
  - LED panel lamp lighting

## General Specifications

Rated Input Voltage	200-240VAC,200-240VDC,0/50/60Hz
Operating Input Voltage Range	180-264VAC,180-264VDC
Input Current	<0.41 (Rated input voltage)
Input Power	81.21W
Power Factor	PF>0.95 (230V AC & Full load),DF>0.98 (230V AC & Full load)
THD	≤9% (230V AC & Full Load)
Efficiency (Typical)	≥93%(230V AC & Full Load)
Driver Type	Constant Current DALI-2
Output Current	100mA ±3%, 120mA ±3%, 135mA ±3%, 150mA ±3%, 175mA ±3%, 200mA ±3%, 200mA ±3%, 250mA ±3%, 275mA ±3%, 300mA ±3%, 325mA ±3%, 350mA ±3%, 375mA ±3% @ 54-200VDC 400mA ±3% @ 54-190VDC, 425mA ±3% @ 54-180VDC, 450mA ±3% @ 54-170VDC * Refer DIP switch Table for O/P current selection.
Output Voltage Range	54-200VDC
Output Power	76.3W
Number of Output Channels	1 Channel
Output Type	Class I1
Dimming Controller Type	DALI 2.0,3%-100%
Ambient Operating Temperature Range	-20°C to 50°C
Max. Case Temperature	90°C
Input Surge Protection	2KV/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)
Certification and Standards	EN61347-1, EN61347-2-13, En62384 EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547 EN62386-101(DALI-2), EN62386-102(DALI-2),, EN62386-207(DALI-2) IEC 62386-101, IEC 62386-102, IEC 62386-107
Withstand Voltage	I/P-FG:1750Vac, I/P DALI:1500Vac
Leakage Current	<0.7mA @ 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
Weight	0.193 Kg

Note : Suitable for Indoor application only

### DIP-switch & output current

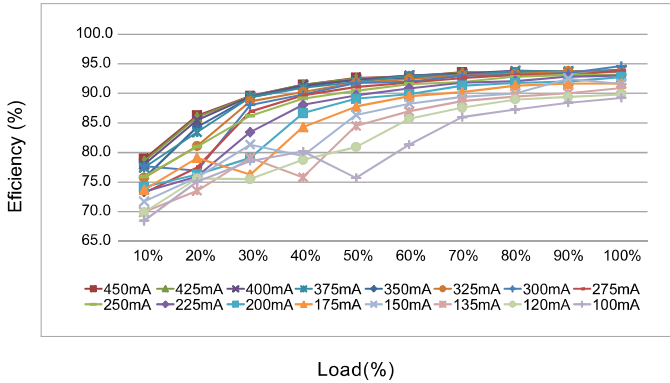
Remark: ■ This current is factory default.

- This Switch is off.

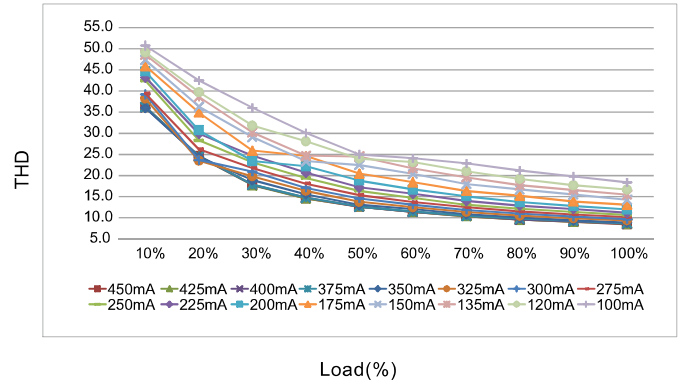
Pin(w) typ.	Output			1	2	3	4
	Prated(w)	Irated(mA)	Voltage(Vdc)				
22.35	20.00	100	54-200	ON	ON	ON	ON
26.40	24.00	120	54-200	-	ON	ON	ON
29.54	27.00	135	54-200	ON	-	ON	ON
32.57	30.00	150	54-200	-	-	ON	ON
37.67	35.00	175	54-200	ON	ON	-	ON
43.06	40.00	200	54-200	-	ON	-	ON
48.44	45.00	225	54-200	ON	-	-	ON
53.42	50.00	250	54-200	-	-	-	ON
58.70	55.00	275	54-200	ON	ON	ON	-
64.03	60.00	300	54-200	-	ON	ON	-
69.30	65.00	325	54-200	ON	-	ON	-
74.31	70.00	350	54-200	-	-	ON	-
79.45	75.00	375	54-200	ON	ON	-	-
80.59	76.00	400	54-190	-	ON	-	-
81.21	76.50	425	54-180	ON	-	-	-
81.21	76.50	450	54-170	-	-	-	-

### Electrical values

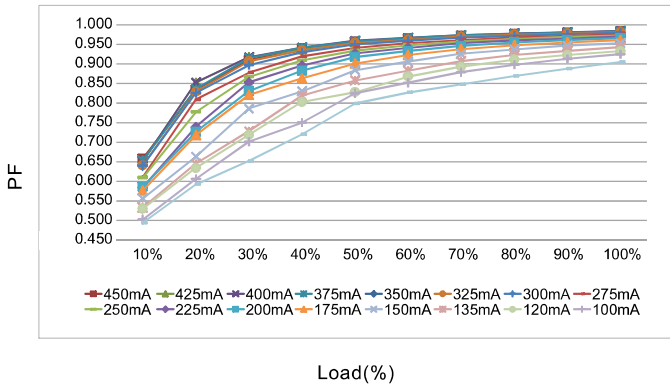
Efficiency vs. Load



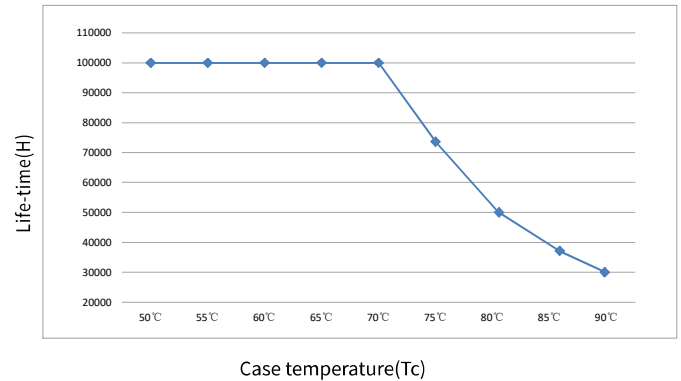
THD vs. Load



Power factor vs. Load



Life-time vs. case temperature

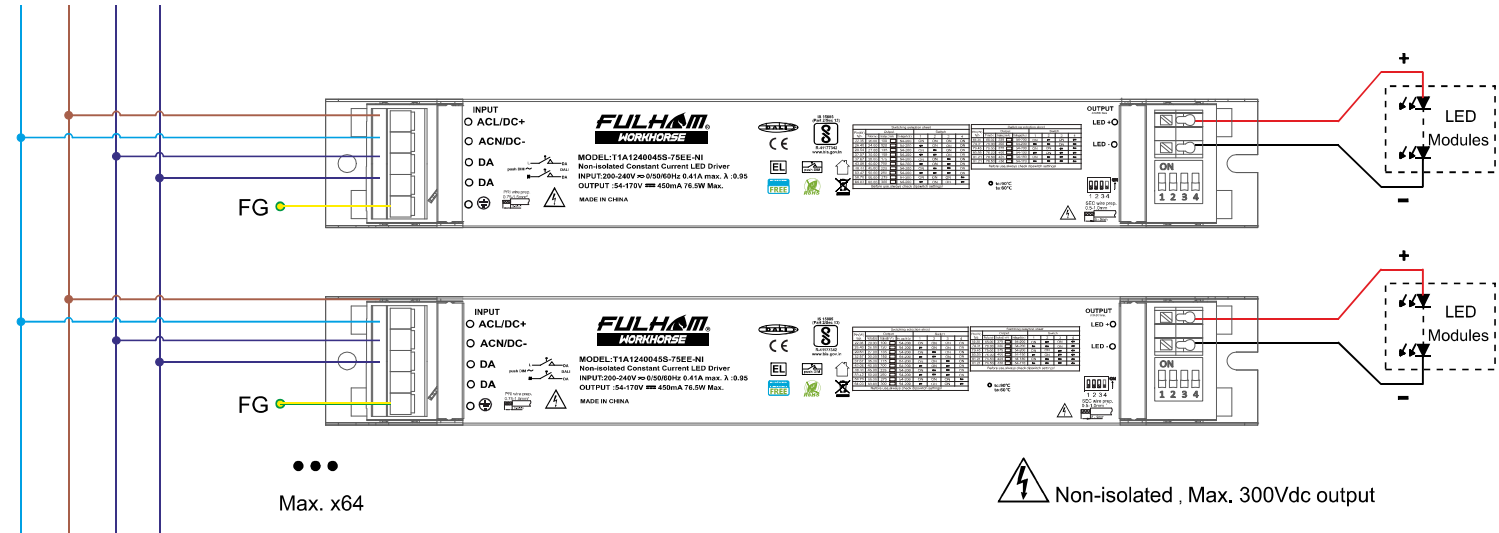


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### DALI dimming application

Wiring diagram

ACNACL DA DA



### 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.

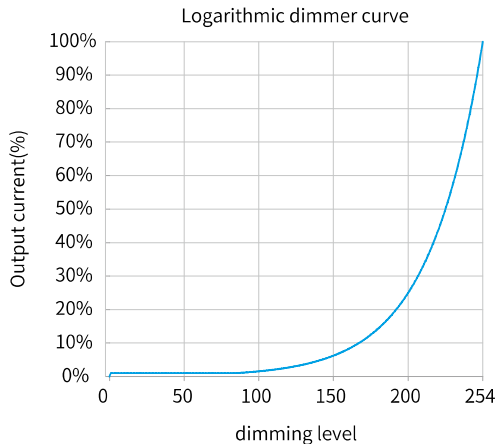
#### Remarks:

- 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 2x1.5mm<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
2x0.50mm <sup>2</sup>	max.100m
2x0.75mm <sup>2</sup>	max.150m
2x1.00mm <sup>2</sup>	max.200m
≥2x1.50mm <sup>2</sup>	max.300m

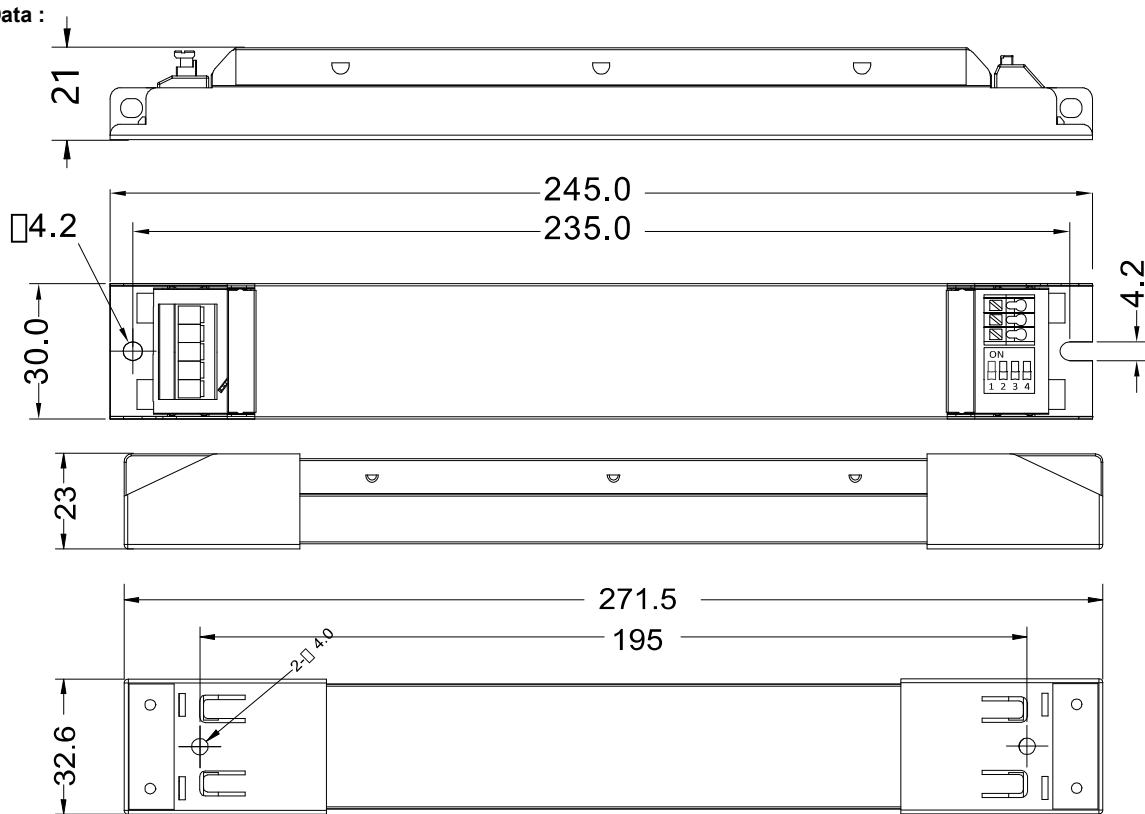
### Dimming curve



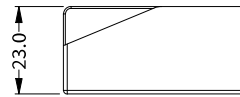
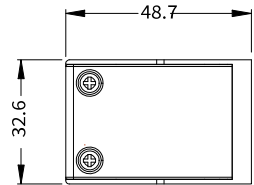
**Remarks:** The dimming curve can be selected by DALI configuration. The default is logarithmic dimming curve.

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**Mechanical Data :**



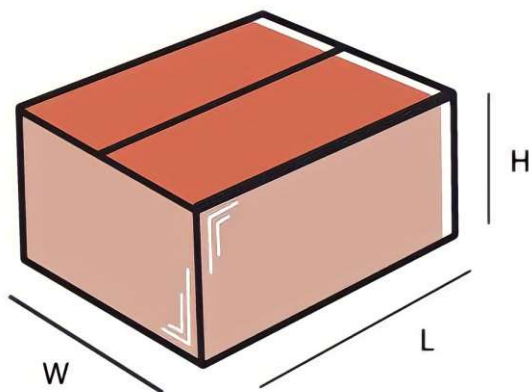
Cable Clamp Model No: [FH-CC003A](#)



Tolerance=±0.5mm

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

**Packaging**



**Master carton**

OUTER DIMENSION		
L	W	H
355mm	285mm	205mm
Net Weight	Gross Weight	QUANTITY
8.11 kg	9.41 Kg	42 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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