



## Features

- DALI-2+pushDIM dimming interface
- 16-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 between lights is same
- Standby power input<0.5W, meets the requirements of ErP certification
- High PF, high efficiency, low THD
- Intelligent LED hot-plug protection function
- SELV and Class I design, suitable for use inside of the light
- Passed CE,DALI-2 certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h

## Interfaces

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

## Functions

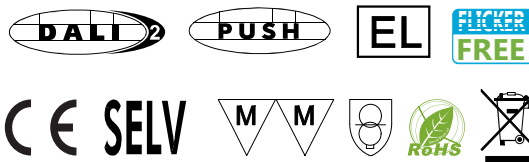
- Support central emergency application (dimming normal in DC input)
- Support self-contained emergency application
- Protective features  
(short-circuit, overload,no-load, hot plug-in protection )

## Suitable for lights

- Suitable for linear lights,tri-proof lights,working lights and other linear or ultra-thin lights etc.

## Typical applications

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



- Dimmable Constant current 1-Channel LED driver with DALI Dt6
- Support DALI dimming and tunable white function
- Support PUSH dimming and tunable white function
- Dimming range 1 to 100%
- Output Wattage : 80W Max
- Output voltage range of 6-42Vdc
- Output Current: 1250 - 1650mA
- Flicker-free at any brightness, meeting the standard of flicker-free(IEEE 1789-2015)
- Application
  - LED indoor lighting
  - LED office lighting
  - LED architectural lighting

## General Specifications

Rated Input Voltage	200-240VAC, 200-240VDC, 0/50/60Hz
Operating Input Voltage Range	180-264VAC, 180-264VDC, 0/50/60Hz
Input Current	<0.38A (Rated input voltage)
Input Power	89W
Power Factor	PF>0.95 (230V AC & Full load), DF>0.98 (230V AC & Full load)
THD	≤10% (230V AC & Full Load)
Efficiency (Typical)	≥88.5% (230V AC & Full Load)
Driver Type	Constant Current
Output Current	1250mA ±3%, 1300mA ±3%, 1350mA ±3%, 1400mA ±3%, 1450mA ±3%, 1500mA ±3%, 1550mA ±3%, 1600mA ±3%, 1650mA ±3%, 1700mA ±3%, 1750mA ±3%, 1800mA ±3%, 1850mA ±3%, 1900mA ±3% @ 6-42V, 1950mA ±3% @ 6-41V, 2000mA ±3% @ 6-40V *Refer DIP switch Table for O/P current selection
Output Voltage Range	6-42VDC
No Load Output Voltage	50VDC
Output Power	80W Max
Number of Output Channels	1 Channel
Class	Class I
Dimming Controller Type/Dimming Range	DALI 2, 1%-100%
Ambient Operating Temperature Range	-20°C to 60°C
Max. Case Temperature	90°C
Input Surge Protection	L-N:2KV, L-FG/N-FG:2KV
Protections	Output Short Circuit : Yes Output Open Circuit : Yes Output Overload : Yes Over Temperature : Auto Recovery (HICCUP Mode)
Safety Standards	EN61347-1/2-13, GB19510.1/14, EN62384
Flicker-free Standard	IEEE1789
Dali Standards	IEC62386-101, 102, 207
Withstand Voltage	I/P-O/P:3750Vac, I/P-FG:1750Vac, O/P-FG:500Vac, I/P-DALI:500Vac
Leakage Current	<0.7mA @ 240Vac
Isolation resistance	I/P-O/P:100MΩ / 500Vdc / 25°C / 70% RH
Life	50,000 Hours @ 82°C
Approvals / Class	SELV Equivalent
Warranty	5 Years
Weight	0.368 Kg

Note : Suitable for indoor application only

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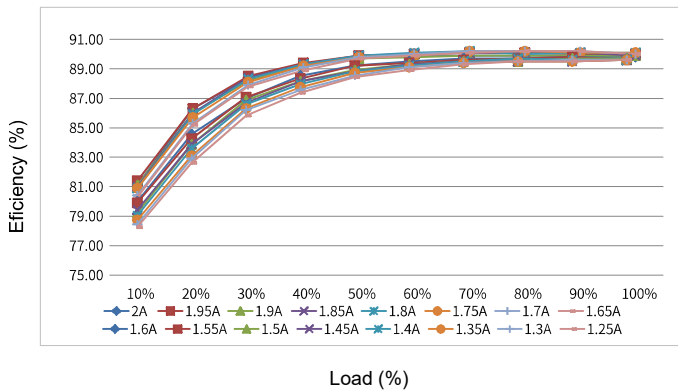
### DIP Switch Chart :

Pin (w) typ.	Output			1	2	3	4
	Prated(w)	Irated(mA)	Voltage(Vdc)				
58.0	52.50	1250	6-42	ON	ON	ON	ON
60.3	54.60	1300	6-42	--	ON	ON	ON
62.6	56.70	1350	6-42	ON	--	ON	ON
64.9	58.80	1400	6-42	--	--	ON	ON
67.2	60.90	1450	6-42	ON	ON	--	ON
69.5	63.00	1500	6-42	--	ON	--	ON
71.8	65.10	1550	6-42	ON	--	--	ON
74.2	67.20	1600	6-42	--	--	--	ON
76.5	69.30	1650	6-42	ON	ON	ON	--
78.8	71.40	1700	6-42	--	ON	ON	--
81.5	73.50	1750	6-42	ON	--	ON	--
83.5	75.60	1800	6-42	--	--	ON	--
85.9	77.70	1850	6-42	ON	ON	--	--
88.4	79.80	1900	6-42	--	ON	--	--
89.0	80.00	1950	6-41	ON	--	--	--
89.5	80.00	2000★	6-40	--	--	--	--

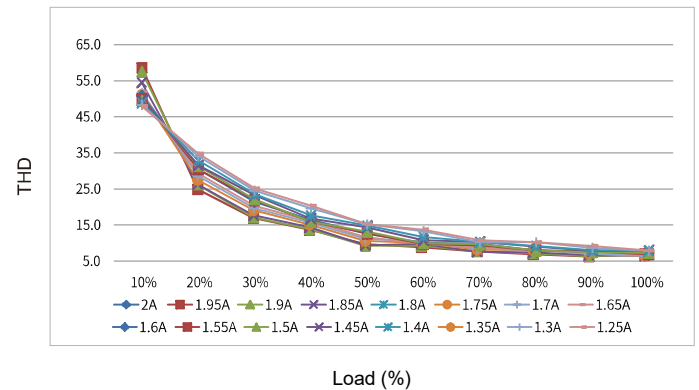
Remark: ★ this current is factory default.

-- this Switch is off.

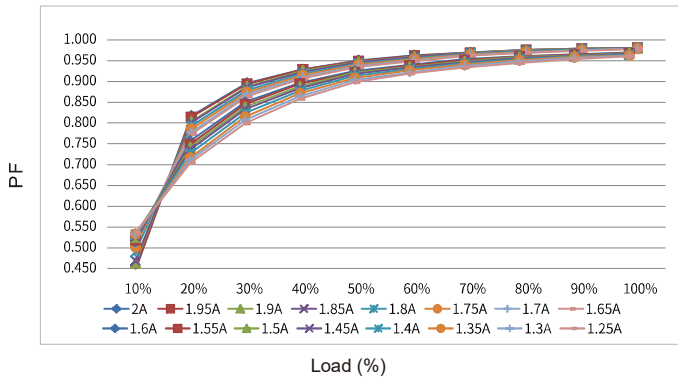
Efficiency vs Load



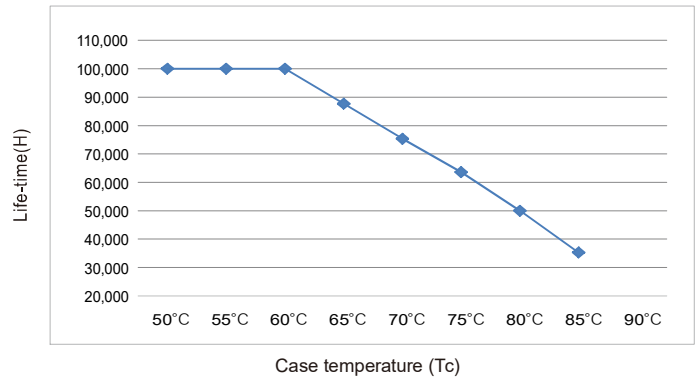
THD vs. Load



Power factor vs. Load



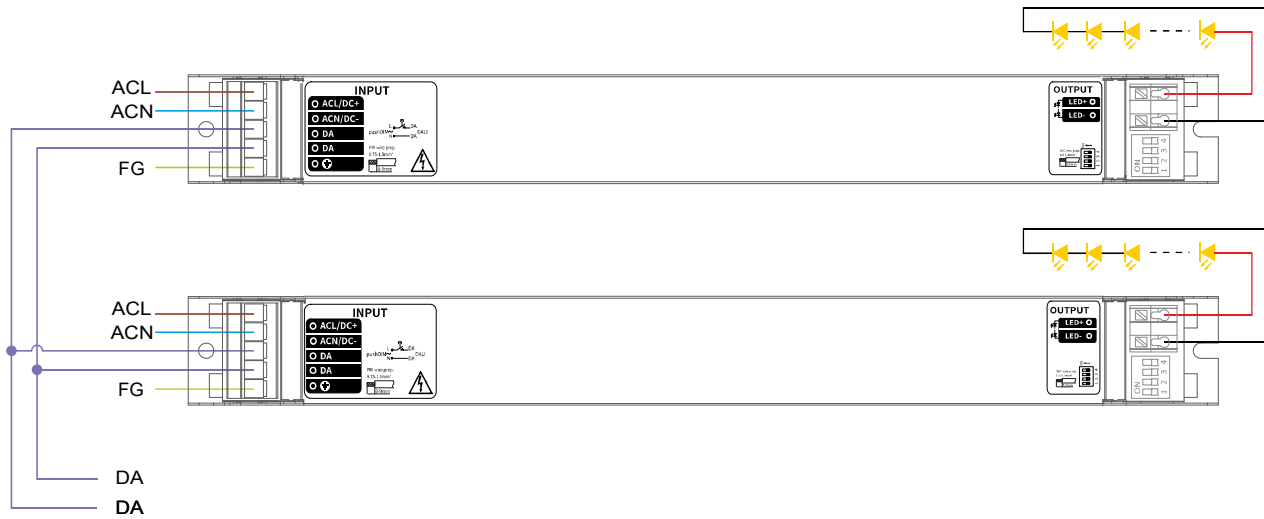
Life-time vs. case temperature



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

- 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.

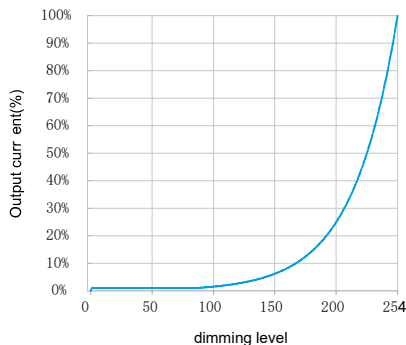
#### Power-on level :

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



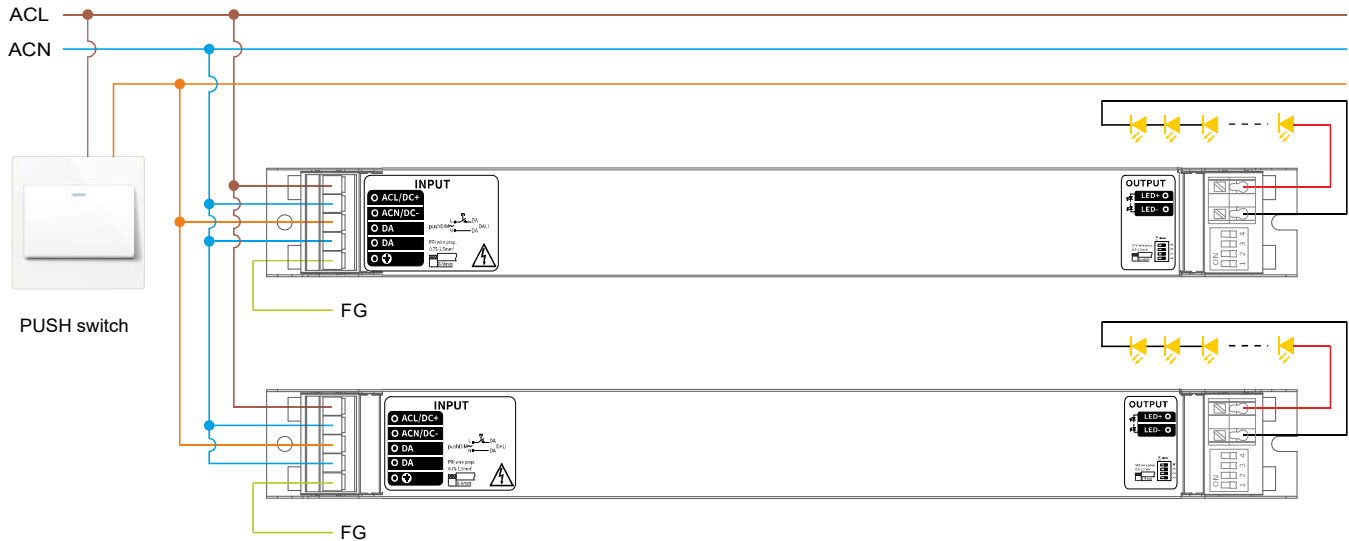
Remarks: The dimming curve can be selected by DALI configuration. The default is logarithmic dimming curve.

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### pushDIM dimming application

#### Wiring diagram



#### Activating pushDIM dimming mode

After installation according to the wiring diagram of pushDIM dimming application, long press the pushbutton 3 seconds, the driver will automatically switch to pushDIM dimming mode.

#### Remarks:

Max. 50 drivers per pushDIM control line.

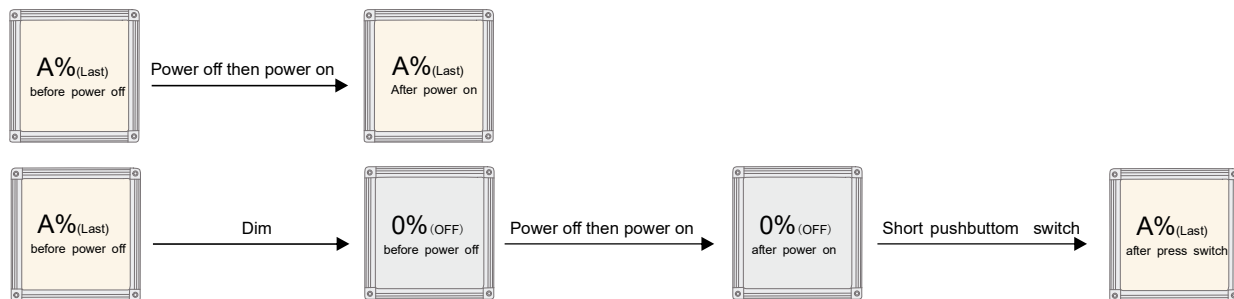
Turn on or turn off: short press pushbutton for 0.2-1s.

Dimming: long press pushbutton for 1-5s.

Power on status: after power on, the light state will be the same as the lighting on state.

If the light is on before power on, the light will be on after power on again, brightness will be the same as the last lighting on brightness.

If the light is off before power off, the light will be off after power on again, short press the pushbutton, then the light will be on, the brightness will be the same as the last brightness.



#### Multiple lights synchronize control operation

##### method 1:

Step 1: long press the pushbutton, confirm each light is on.

Step 2: short press the pushbutton, confirm each light is off.

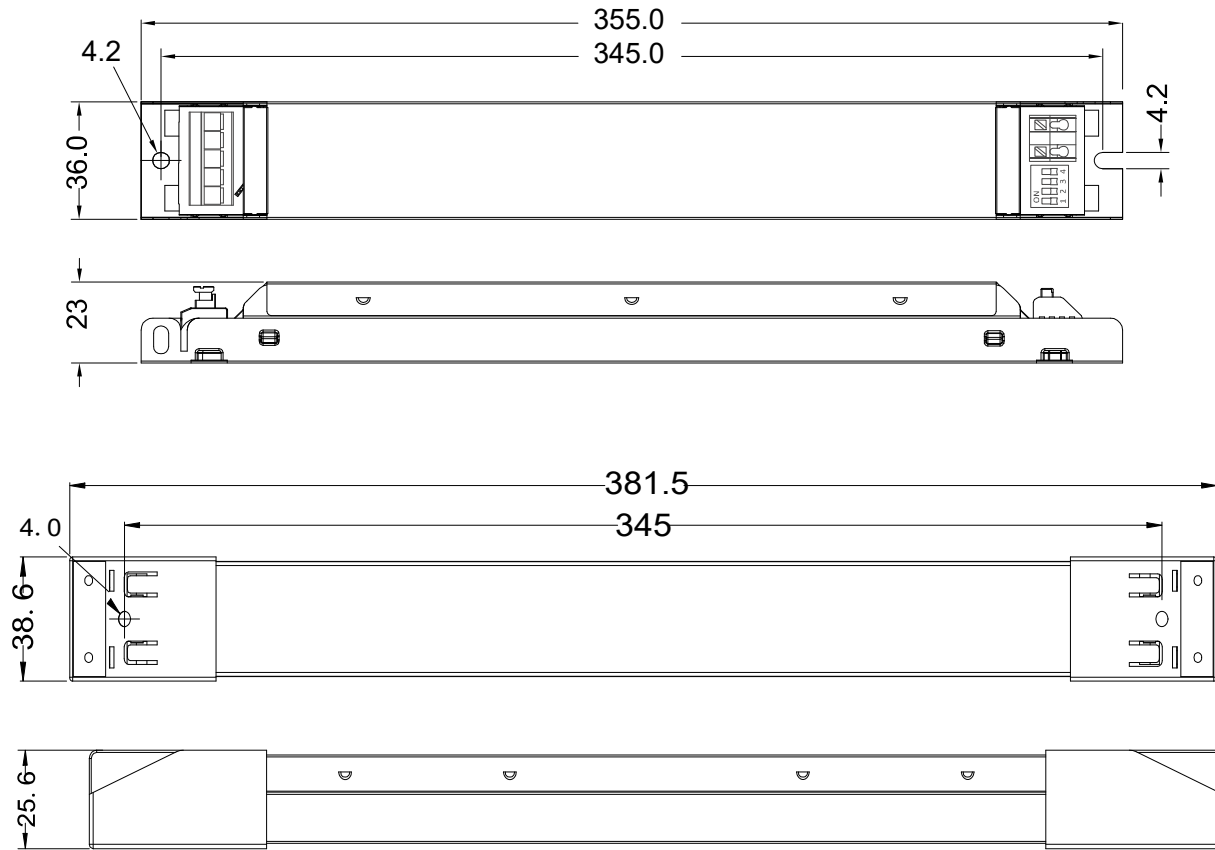
Step 3: long press the pushbutton, confirm each light is from darkest to brightest and all the lights are synchronous.

##### method 2:

– Long press the pushbutton 15s, all lights output to the brightest state.

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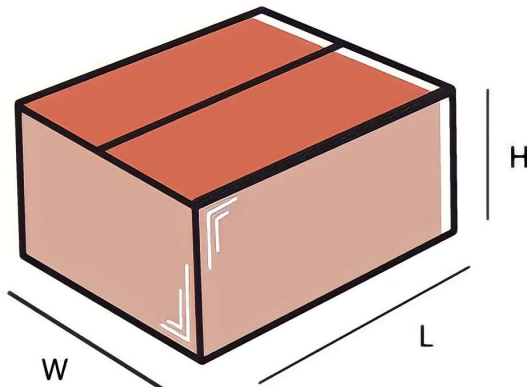
### Mechanical Specification



Note : All Dimensions are in mm.

Tolerance=±0.5mm

### Packaging



#### Master carton

OUTER DIMENSION		
L	W	H
445mm	375mm	150mm
Net Weight	Gross Weight	QUANTITY
10.3 kg	11.9 kg	28 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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