

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



- **DALI-2 Constant Current LED Driver**
- **Multiple current selection through dip switch.**
- **Output Current: 300 - 450mA**
- **Flicker Free: O/P Ripple current < 10%**
- **Output Wattage : 18W 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	<0.15 @ 230Vac
Input Power	21.2W
Power Factor	>0.95 @ 230Vac/Full Load, >90 @ 230Vac/>50% Load
THD	<15% @ 230Vac/Full Load, THD <20% @ 230Vac/>50% Load
Efficiency (Typical)	84%
Driver Type	Constant Current DALI-2
Output Current	450mA ±5%, 400A ±5%, 350mA ±5%, 300mA ±5% *Refer DIP switch Table for O/P current selection
Output Voltage Range	3-42Vdc (3-40Vdc at 450mA)
Output Power	18W
Number of Output Channels	1 Channel
Output Type	Class II
Dimming Controller Type	DALI-2
Ambient Operating Temperature Range	-20°C to 45°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 @ Tc 75°C
Approvals / Class	SELV Equivalent
Warranty	3 Years
Weight	0.110 Kg

Note : Suitable for indoor application only

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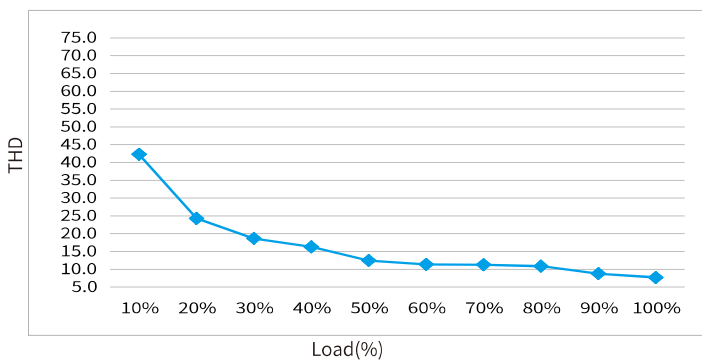
DIP Switch Chart :

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

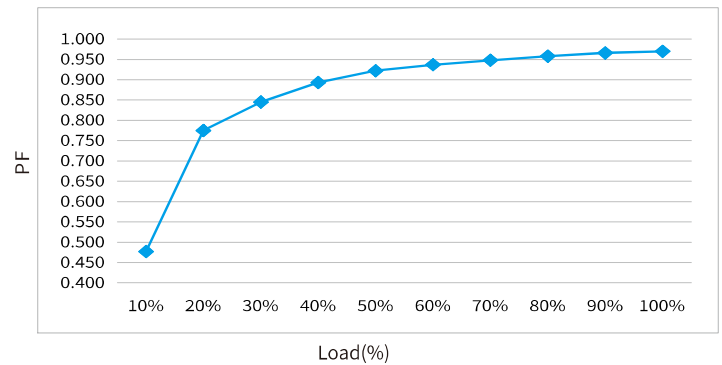
Switching selection sheet					
PINtyp.	Irated	Output Voltage	Prated	1	2
15.0W	300mA	3-42VDC	12.6W	ON	ON
17.4W	350mA	3-42VDC	14.7W	─	ON
19.8W	400mA	3-42VDC	16.8W	ON	─
21.2W	450mA★	3-40VDC	18.0W	─	─

Before use, always check dipswitch settings!

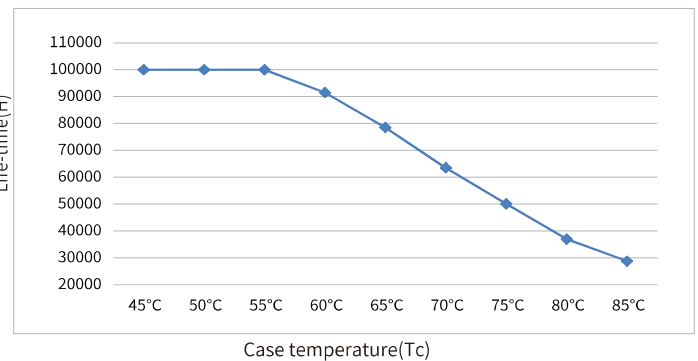
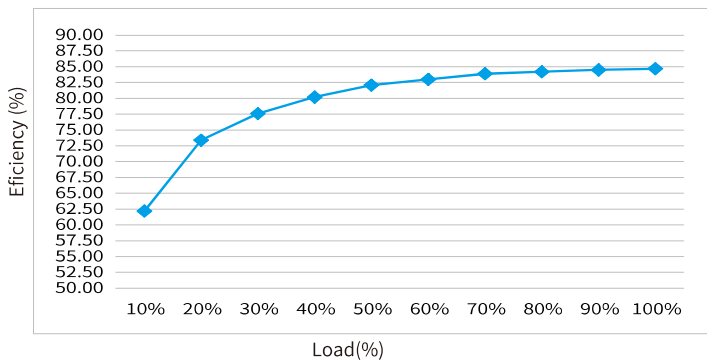
■ Total Harmonic Distortion vs LOAD Characteristic curve



■ Power Factor vs LOAD Characteristic curve



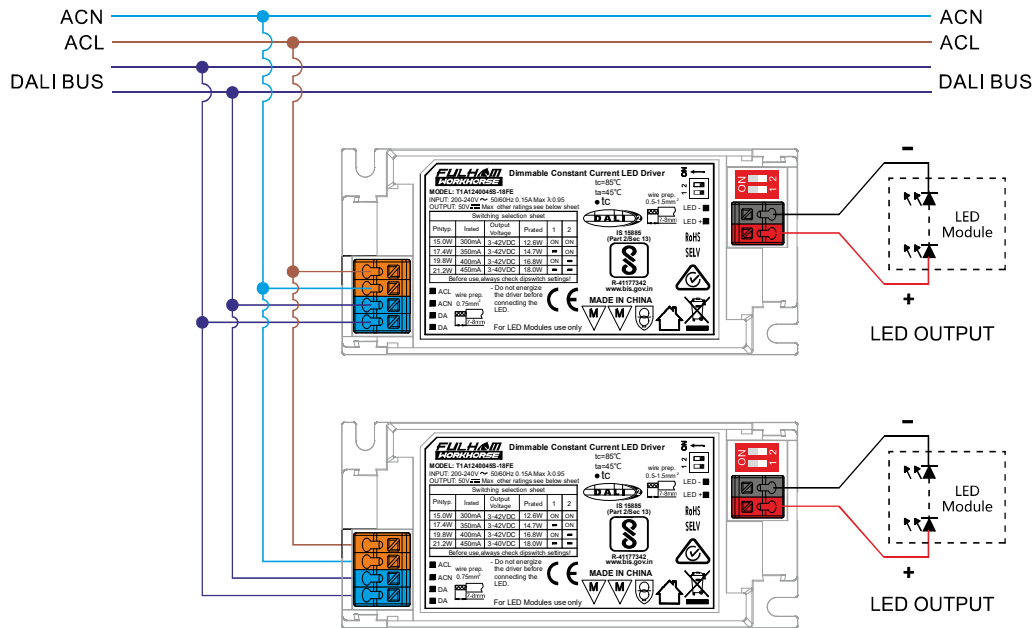
■ EFFICIENCY vs LOAD Characteristic curve



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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.

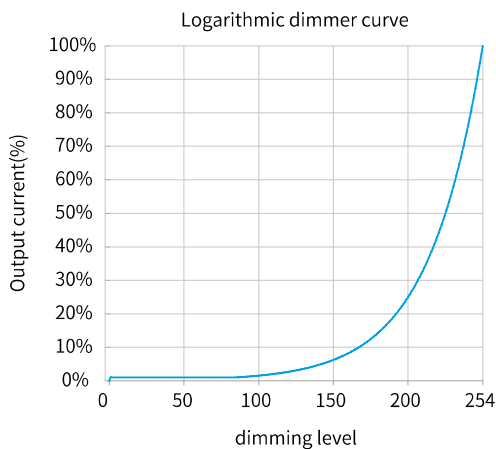
Remarks:

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

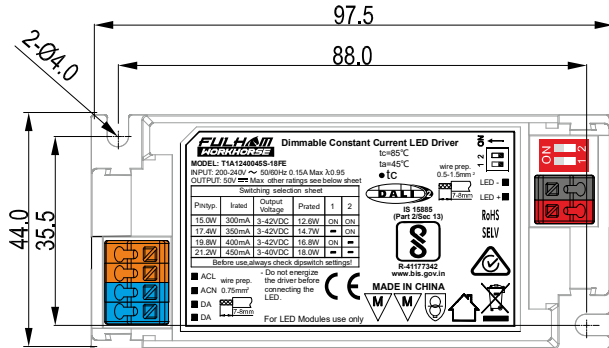


Remarks: The dimming curve can be selected by DALI configuration. The default is logarithmic dimming curve.

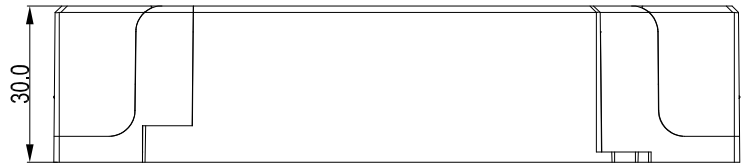
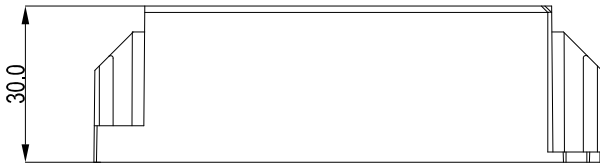
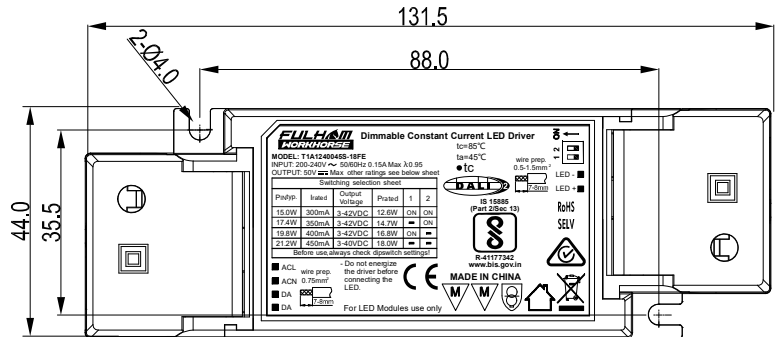
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Mechanical Data :

Without Cable clamp



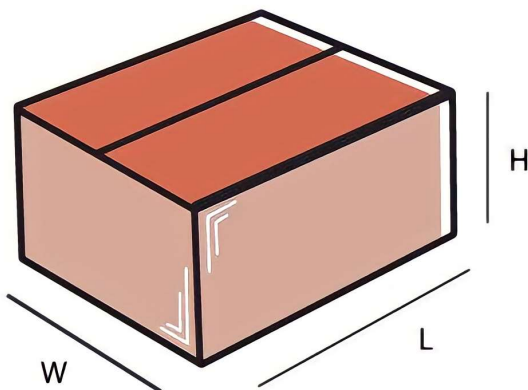
With Cable clamp



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	8.63 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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