

Constant current DALI-2 DT6 LED Driver (PUS-DIM + PUSH CCT + CLO + NFC)



### **FEATURES**

- Supports DALI-2 + PUSH DIM + PUSH CCT Control + NFC
- Inbuilt CLO Function
- Compliance to DALI-2 PART 101, 102, 207, 209, 250, 251, 252, 253
- DALI Function setting through NFC
  - a. O/P Current setting in step of 1mA.
  - b. Set Min-Max level.
  - c. Set system failure level.
  - d. Set power on level.
  - e. Set address manually 0 to 63.
  - f. Create Groups manually 1 to 16.
  - g. Set Fade time.
  - h. Set fade rate.
  - i. change dimming curve manually Linear OR Logarithmic.
  - j. Set Scenes manually.
- SELV CLASS II Design.
- Dimming range 0.1% to 100%.
- High PF, Low THD, High Efficiency.
- CE, Flicker free.
- Life 50,000hrs.
- Suitable for indoor use only.

### INTERFACE

- DALI-2 DT8
- PUSH-DIM
- PUSH-CCT

### **FUNCTIONS**

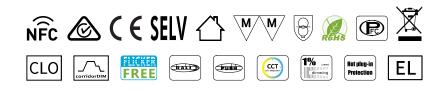
- Memory function
- Suitable for emergency lighting (EL)
- Protection features (short circuit, open circuit, over load, no load, hot plug-in)

### SUITABLE FOR LIGHTS

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

### TYPICAL APPLICATIONS

- LED Indoor lighting.
- LED Office lighting.
- LED Commercial lighting.





**SPECIFICATIONS** 



- **Dimmable Constant Current 2-Channel LED Driver with DALI DT8**
- **Inbuilt CLO Function** Output Wattage : 30W Max •

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240\/AC +10% 50/60Hz

- Support DALI dimming and tunable white function
- Dimming range 0.1 to 100%
- **NFC Programable**

- Output voltage range of 10-54Vdc Output Current: 500 - 1050mA
- Flicker-free at any brightness, meeting the standard of flicker-free(IEEE 1789-2015)
- Application

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- LED indoor lighting
- LED office lighting
- LED architectural lighting
- LED panel lamp lighting

DALI PART 101, 102, 207, 209, 251, 252 & 253

### **General Specifications** Rated Input Voltage

Rated Input Voltage	240VAC +10%, 50/60Hz			
Operating Input Voltage Range	196-264VAC, 50/60Hz			
Input Current Max.	0.30 @ 230Vac			
Input Power	47W			
Power Factor	>0.95 @ 230Vac Full Load			
THD	<10% @ 230Vac Full Load			
Efficiency (Typical)	86%			
Driver Type	Constant Current DALI-2			
Output Current	500mA to 1050mA ±3% (Current setting through NFC, with step of 0.1mA)			
	*Refer Voltage vs O/P current graph			
Output Voltage Range	10-54Vdc			
Dimming Controller Type	DALI-2 (Amplitude/CCR dimming)			
Output Power	40W			
Number of Output Channels	2 Channel			
Output Type	Class II			
Ambient Operating Temperature Range	-20°C to 60°C			
Max. Case Temperature	90°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)			
Standards	EN55015, EN61000-3-2, EN61000-3-3			
	EN61547, EN61000-4-2,3,4,5,6,8,11			
	EN61347-1, EN61347-2-13			
	IEEE1789			
Withstand Voltage	I/P-O/P:3750Vac, I/P-FG:1750Vac, O/P-FG:500Vac, I/P-DALI:500Vac			
Leakage Current	<0.5mA @ 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 at Tc 80°C			
Weight	0.280 Kg			
Note : Suitable for indeer application only				
Note : Suitable for indoor application only	ן ן ן			

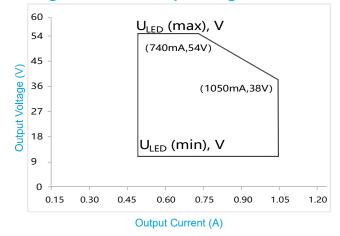
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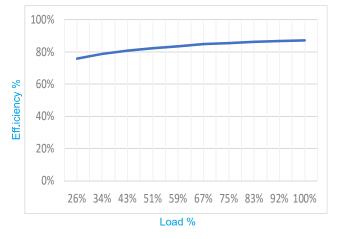
SPECIFICATIONS



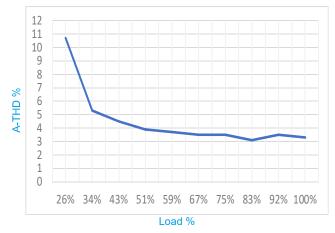
### Voltage and current operating window



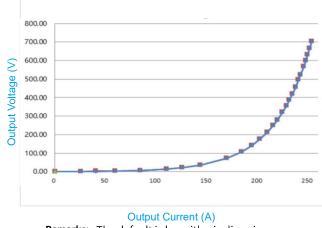
### Typical Efficiency Vs Load %



### A-THD Vs Load %

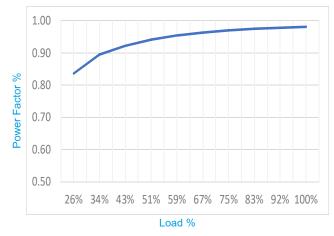


**Dimming Curve** 

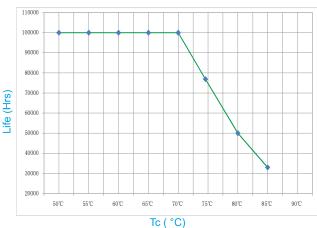


**Remarks:** The default is logarithmic dimming curve.

### **Power factor vs Load**







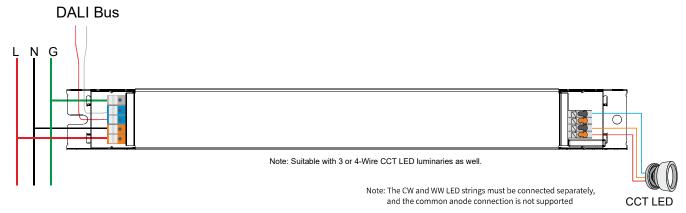
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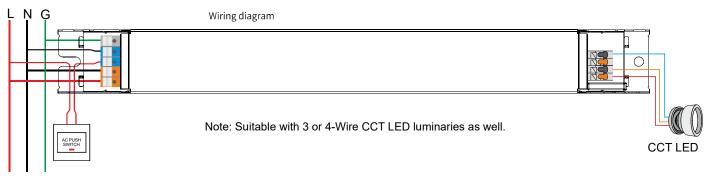
**DALI dimming application** 



### 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.

### **PUSH dimm**



### Using PUSH DIM & PUSH CCT controls:

After installation according to the wiring diagram of PUSH-DIM control application,

- 1. Press PUSH switch it will increase the Brightness, release the witch and again press PUSH switch it will Reduce the Brightness.
- 2. Short press PUSH switch two times to switch to PUSH CCT mode.
- 3. Press PUSH switch it will increase the CCT, release the witch and again press PUSH switch it will Reduce the CCT.
- 4 To go back to PUSH-DIM Short press PUSH switch two times.

### Multiple lights synchronize control operation

- method 1: Step 1:long press the PUSH-DIM switch, confirm each light is on.
  - Step 2:short press the PUSH-DIM switch, confirm each light is off.
  - Step 3:long press the PUSH-DIM switch, confirm each light is from darkest to brightest and all the lights are synchronous.
- method 2: Long press the PUSH-DIM dimming switch for more than 15s, all drivers will output 100% brightness and the color temperature is natural white (middle of color temperature range).

#### **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  $2 \times 1.5$  mm<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		

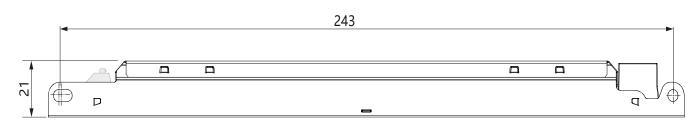
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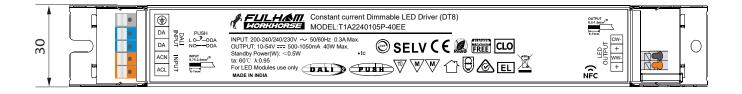


SPECIFICATIONS



Mechanical Data :



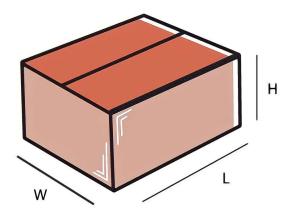


Note : All Dimensions are in mm.

Tolerance=±0.5mm

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#### Packaging



Master carton

OUTER DIMENSION					
L	W		Н		
450mm	350m	nn	180mm		
Net Weight	Gross Weight	QUANTITY			
7.2 kg			32 po.		

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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