

Constant current Independent dimmable DALI-2



#### **Features**

- Support DALI-2 dimming mode
- -10-level current output can be realized by DIP-switch
- $\hbox{-}\, \mathsf{Soft}\, \mathsf{dimming}\, \mathsf{and}\, \mathsf{flicker}\hbox{-}\mathsf{free}\,\, \mathsf{at}\, \mathsf{any}\, \mathsf{brightness}$
- Dimming range 1~100%
- Standby power input<0.5W, meets the requirements of ErP certification
- High PF, high efficiency, low THD
- $\hbox{-} Independent input and output strain relief, stronger wiring \\$
- 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)
- $\hbox{-} \ {\bf Support\, self-contained\, emergency\, application}$
- 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

## **Typical applications**

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





# SELV & PREE

## **SPECIFICATIONS**

- DALI-2 Constant Current LED Driver
- Multiple current selection through dip switch.
- Output Current: 1050 1500mA
- Flicker Free: O/P Ripple current < 10%
- Output Wattage: 70W Max
- Output voltage range of 3-54Vdc
- Linear CRCA Cabinet
- Suitable For Dry Locations
- Application:
  - Suitable for indoor SELV application
  - Suitable for Linear fixture for Office, Education, Storage area and Retail

# **General Specifications**

Rated Input Voltage	200-240Vac,50/60Hz			
Operating Input Voltage Range	180-264Vac,50/60Hz			
Input Current	<0.5 @ 230Vac			
Input Power	76W			
Power Factor	>0.95 @ 230Vac/Full Load, >90 @ 230Vac/>50% Load			
THD	<15% @ 230Vac/Full Load, THD <20% @ 230Vac/>50% Load			
Efficiency (Typical)	89%			
Driver Type	Constant Current DALI-2			
Output Current	1500mA ±5%, 1450mA ±5%, 1400mA ±5%, 1350mA ±5%, 1300mA ±5%, 1250mA ±5%, 1200mA ±5%, 1150mA ±5%, 1100mA ±5%, 1050mA ±5% *Refer DIP switch Table for O/P current selection			
Output Voltage Range	3-54Vdc (3-52Vdc @ 1350mA, 3-50Vdc @1400mA, 3-48Vdc @1450mA, 3-46Vdc @1500mA)			
Output Power	70.2W			
Number of Output Channels	1 Channel			
Output Type	Class I			
Dimming Controller Type	DALI-2			
Ambient Operating Temperature Range	-20°C to 60°C			
Max. Case Temperature	90°C			
Input Surge Protection	2.5KV / 2.5KV			
Protections	Input Over Current : Non Resettable (Fuse)			
	Output Short Circuit : Auto Recovery (HICCUP Mode)			
	Output Open Circuit : Auto Recovery (HICCUP Mode)			
	Output Overload : Auto Recovery (HICCUP Mode)			
	Over Temperature : Auto Recovery (HICCUP Mode)			
Safety Standards	EN61347-1/2-13, GB19510.1/14, EN62384, IEEE1789			
Dali Standards	IEC62386-101, 102, 207			
Withstand Voltage	I/P-O/P:3750Vac, I/P-FG:1750Vac, O/P-FG:500Vac			
Leakage Current	<0.75mA @ 240Vac			
Isolation resistance	I/P-O/P:100MΩ / 500Vdc / 25°C / 70% RH			
	50,000 Hours @ 85°C			
Lite				
Life 				
Approvals / Class	SELV Equivalent			

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**SPECIFICATIONS** 



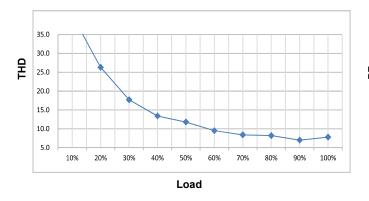
# **DIP Switch Chart:**

Switching selection sheet								
Pin(W)	Output			Switch				
typ. ´	Prated(w)	Irated(mA)	Voltage(Vdc)	1	2	3	4	
63.0	56.7	1050	3-54	-	ON	ON	ON	
66.0	59.4	1100	3-54	ON	-	ON	ON	
68.5	62.1	1150	3-54	-	-	ON	ON	
71.5	64.8	1200 🗀	3-54	-	ON	_	ON	
74.5	67.5	1250	3-54	-	_	_	ON	
78.0	70.2	1300 🔲	3-54	ON	ON	ON	_	
78.0	70.2	1350 🔲	3-52	-	_	ON	_	
77.5	70.0	1400 🔲	3-50	_	ON	-	_	
77.0	69.6	1450	3-48	ON	_	_	_	
76.0	69.0	1500	3-46	-	_	_	-	
Before use, always check dipswitch settings!								

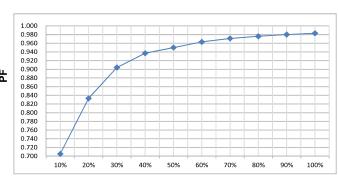
Remark: this current is factory default.

- this Switch is off.

#### **THD vs Load**

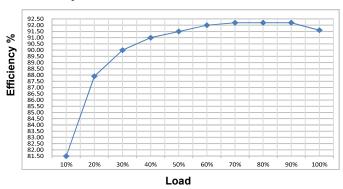


#### **Power Factor vs Load**

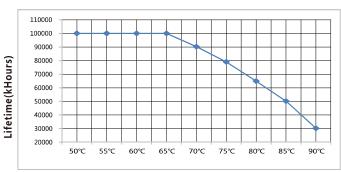


Load

Efficiency vs Load characteristic curve



Life Time Vs Case Temperature



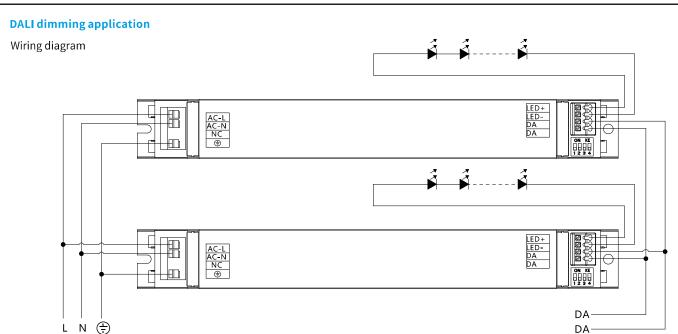
Case temperature

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**SPECIFICATIONS** 





#### **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.

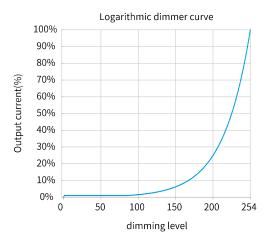
## Remarks:

- 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  $2\times1.5\text{mm}^2.$
- DALI bus can be wired together with any mains voltage cables, but separate wiring is recommended.

#### Wiring distance vs cable size

Cable size	Distance
2×0.50mm²	max.100m
2×0.75mm²	max.150m
2×1.00mm²	max.200m
≥2×1.50mm²	max.300m

## Dimming curve



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

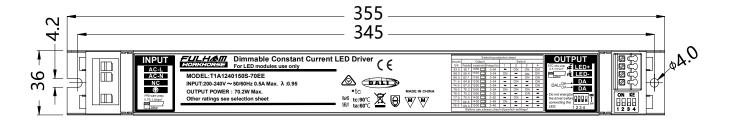
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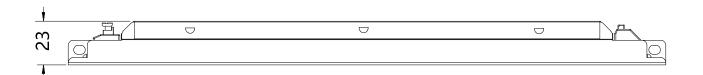


**SPECIFICATIONS** 



#### **Mechanical Data:**

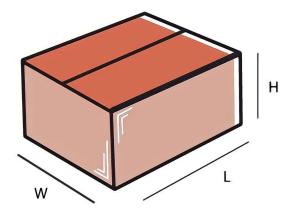




Note: All Dimensions are in mm.

Tolerance=±0.5mm

## **Packaging**



#### Master carton

OUTER DIMENSION							
L		W		Н			
395mm		355mm		160mm			
Net Weight	,	Gross Weight	Q	UANTITY			
9.14 kg	1	0.15 kg		24 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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