

# 25W DALI-2 DT6 CC LED Driver

## PRODUCT DESCRIPTION

- 25W DALI-2 DT6 Constant current LED Driver
- Inbuilt Strain relive
- DALI Dimming – 0.01% to 100%
- O/P Voltage range 6 – 54Vdc, O/P Current 250 – 700mA
- Supports CLO & Corridor function
- Compact form factor L-120 x W-42 x H-28mm

## APPLICATIONS

- Suitable for Indoor use only
- Indoor Lighting (Downlights, Spotlights)
- Office Lighting (Workplace, Conference Hall)
- Mood / Decorative Lighting

## NFC FEATURES

- Set O/P Current In step of 0.1mA
- Set Device Address, Set Scenes, Set Group
- Set Power on level, System failure level
- Set Fade time, Fade rate
- Dimming curve selection (Linear / Logarithmic)
- Copy All setting from once driver to another



Item Number: **SRP-2305N-25CC250-700**

## Output

Output Voltage range	6Vdc – 54Vdc
Output current	250 – 700mA via NFC setting (with 0.1mA step)
Output Power	25W Max
No of Channels	1 Channel

## Input

Rated Voltage (V)	220-240Vac
Operating Voltage Range (V)	180-264Vac
Operating Frequency (Hz)	50 / 60
Input Current (Typical)	0.2A @ 230VAC
System Power Consumption (Typical)	30W
Power factor	> 0.95
A-TDH	< 10%
Stand by Power	< 0.5W
Inbuilt Surge Protection (kV)	2.0KV
Electrical Insulation Class	Suitable for Class II
Inrush Current (Typical)	Max. 5.64A at 230VAC; 72µs duration

## Control

Dimming Interface	DALI DT6 (DALI consumption < 2mA)
Dimming Range	0.01% - 100% @ Max current
Dimming curve	Linear/ Logarithmic optional

## Protections

Short Circuit	Yes
Open circuit	Yes
Output Overload	Yes
Over Temperature	Yes

## Environment

Ta	-25°C ~ +45°C
Tc	85°C (Ta="45°C")
Humidity	10% ~ 95% RH non-condensing
Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH

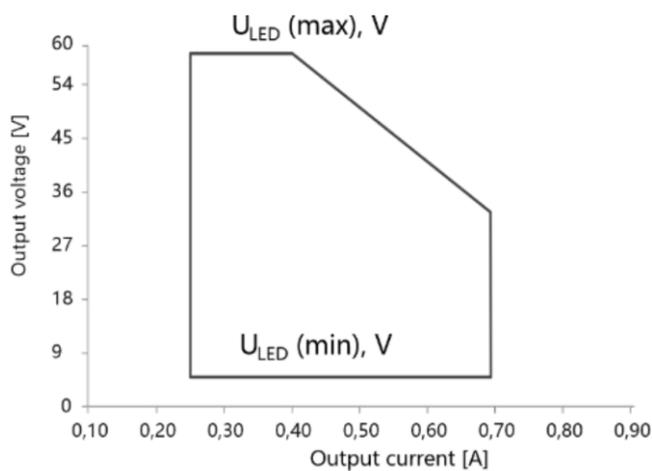
## Safety & EMC

Safety Standards	EN61347-1, EN61347-2-13
Withstand Voltage	I/P-O/P: 3.75KVAC
Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH
EMC Emission	EN55015, EN61000-3-2, EN61000-3-3
EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11
DALI Parts	101, 102, 207

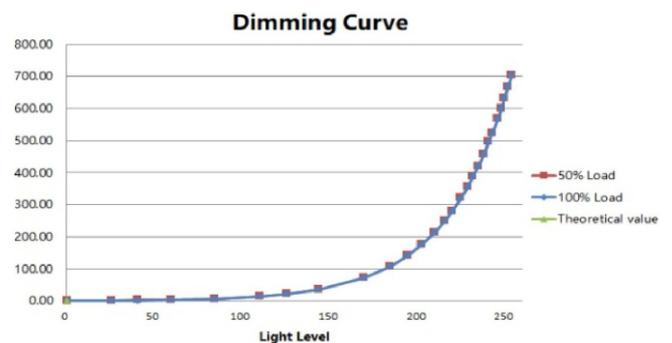
## Other

Life	50,000 Hours @ Tc 85°C
Weight	0.17 Kg
IP Rating	IP20

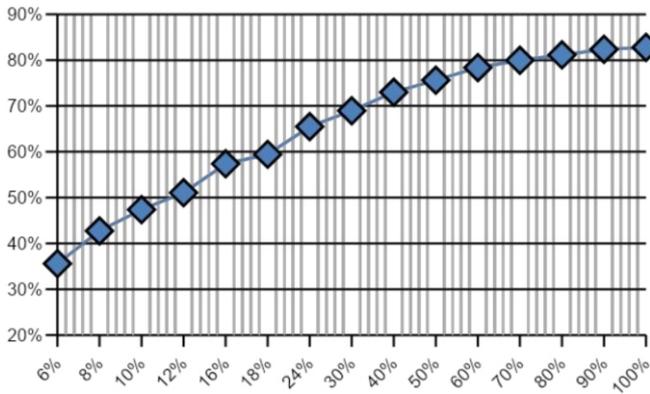
## Voltage and current operating window



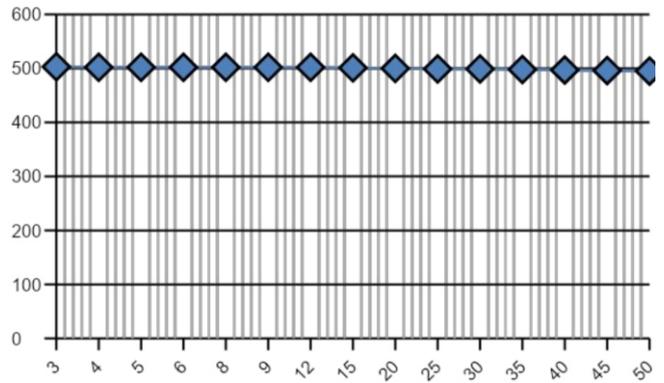
## Dimming Curve



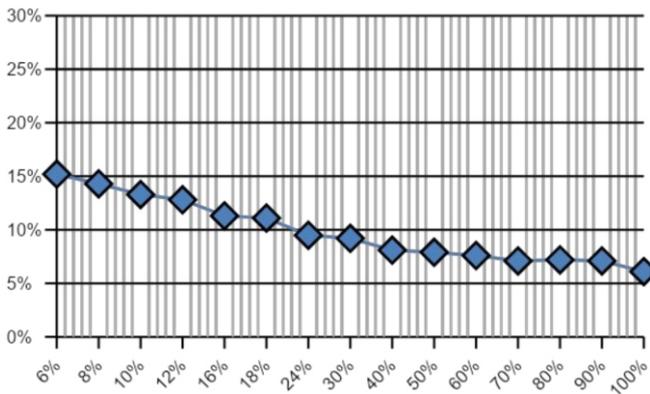
### Typical Efficiency Vs Load %



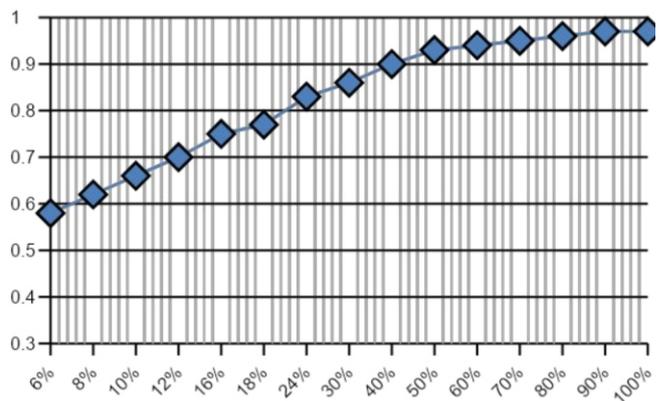
### Typical Load voltage V/S Current



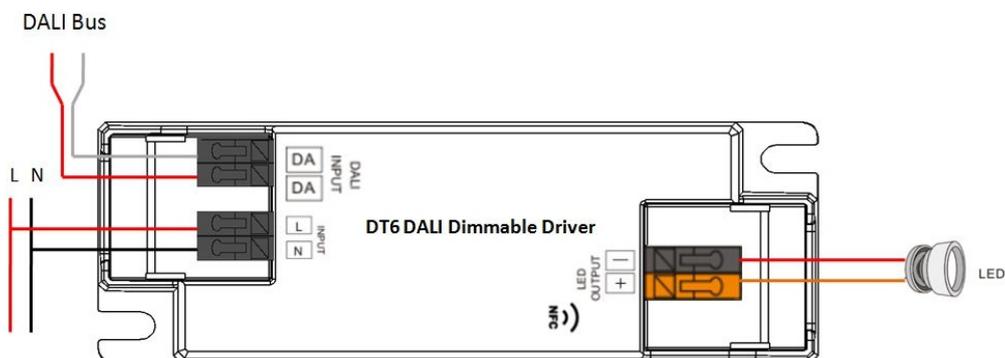
### A-THD Vs Load %



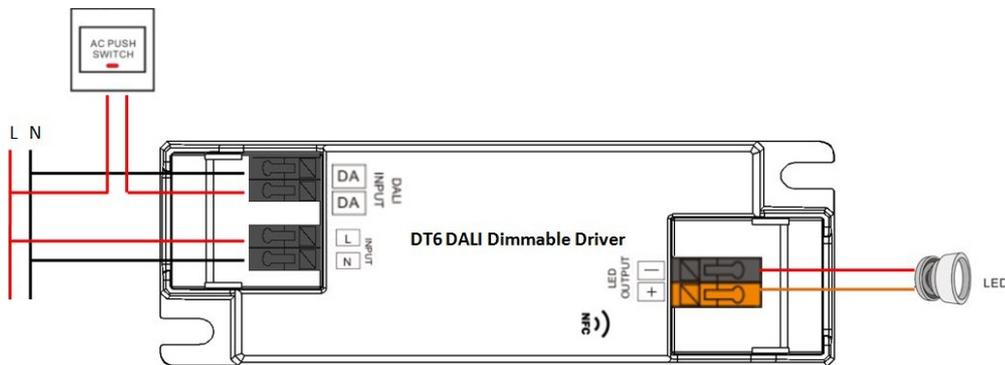
### Power factor vs Load



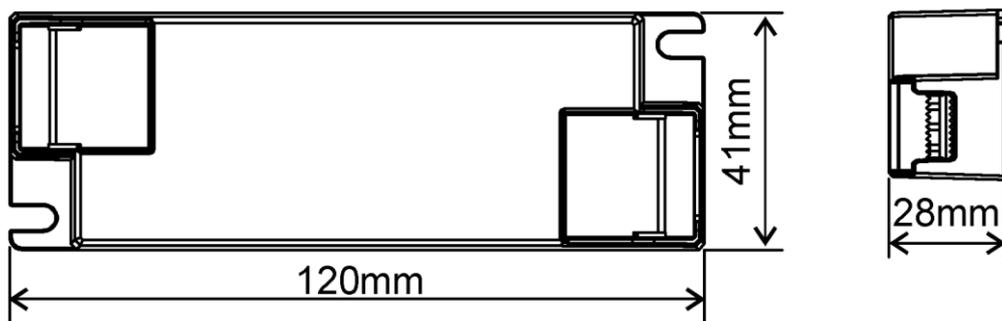
### DALI Wiring Diagram



## Wiring Diagram for Push Dim

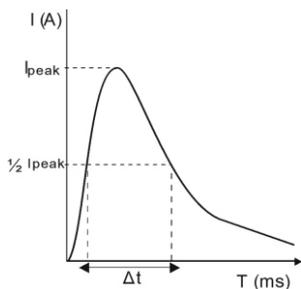


## Mechanical dimensions



## MCB Load Quantity

Module Number	I <sub>peak</sub>	T <sub>width</sub>	Max.quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-2305N-25CC250-700	5.64A	72μs	26	34	42	54	66	35	45	56	70	87	40	52	64	80	100
SRP-2309N-25CCT250-700	5.64A	72μs	26	34	42	53	66	35	45	56	70	87	40	52	64	80	100



### Note:

- Those MCB parameters are based on ABB S200 series circuit breakers.
- For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
- Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.
- When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.
- Type C MCB's are strongly recommended to use with LED lighting.