

10W DALI-2 DT8 Round CCT LED Driver

PRODUCT DESCRIPTION

- 10W DALI-2 DT8 Round Constant current LED Driver
- DALI Dimming – 0.01% to 100%
- O/P Voltage range 3 – 42Vdc
- O/P Current 100 – 500mA
- Supports CLO & Corridor function

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: **SRPY-2309N-10CCT100-500**

Output

Output Voltage range	3Vdc – 42Vdc
Output current	100 – 500mA via NFC setting (with 0.1mA step)
Output Power	10W Max
No of Channels	2 Channel

Input

Rated Voltage (V)	220-240Vac
Operating Voltage Range (V)	198-264Vac
Operating Frequency (Hz)	50 / 60
Input Current (Typical)	0.1A @ 230VAC
Power factor	> 0.95
A-TDH	< 8%
Stand by Power	< 0.5W
Inbuilt Surge Protection (kV)	2.0KV
Electrical Insulation Class	Suitable for Class II
Inrush Current (Typical)	Max. 3.16A at 230VAC; 72μs duration

Control

Dimming Interface	DALI DT8 (DALI consumption < 2mA)
Dimming Range	0.01% - 100% @ Max current
Dimming curve	Linear/ Logarithmic optional

Protections

Short Circuit	Yes, Auto recovery
Open circuit	Yes, Auto recovery
Output Overload	Yes, Auto recovery
Over Temperature	Yes, Auto recovery

Environment

Ta	-25°C ~ +60°C
Tc	85°C (Ta="45°C")
Humidity	10% ~ 95% RH non-condensing
Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH

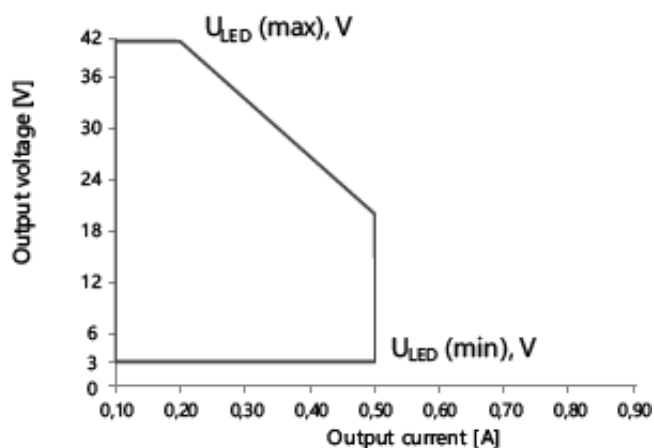
Safety & EMC

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

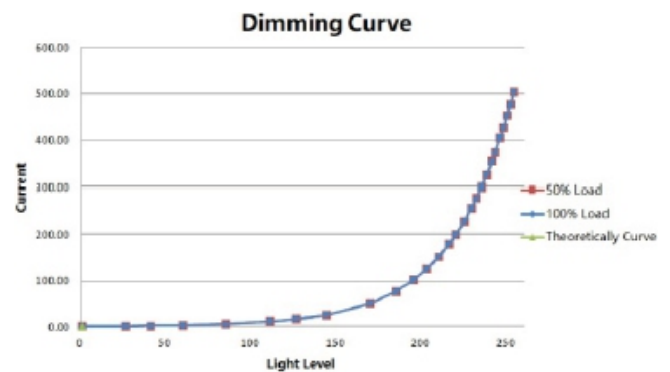
Other

Life	50,000 Hours @ Tc 85°C
Dimension	φ57x24mm (D*H)
IP Rating	IP20

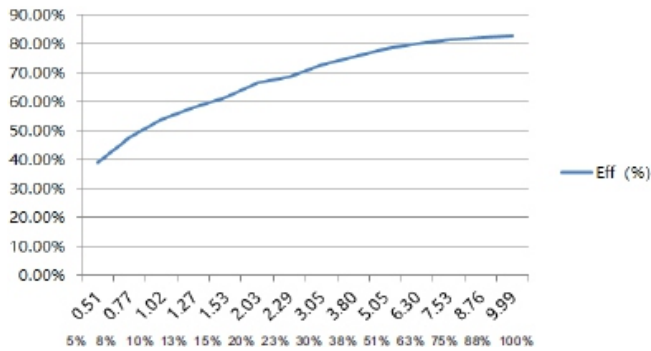
Voltage and current operating window



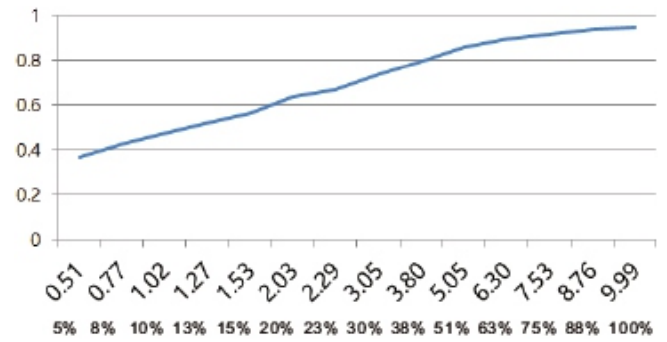
Dimming Curve



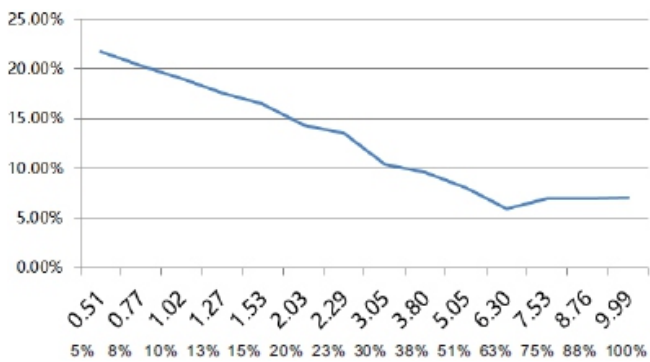
Typical Efficiency Vs Load %



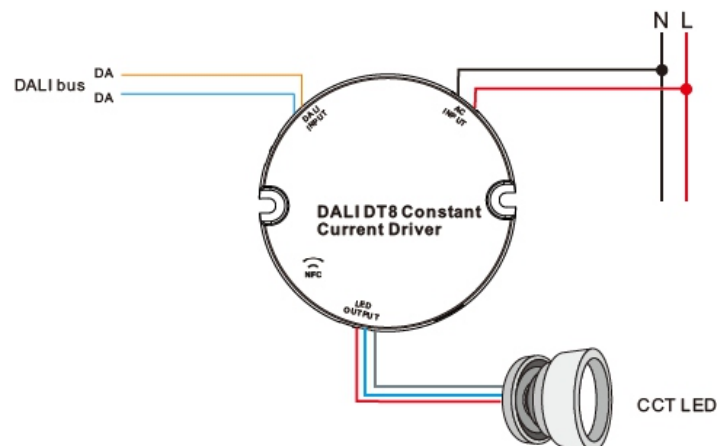
Power factor vs Load



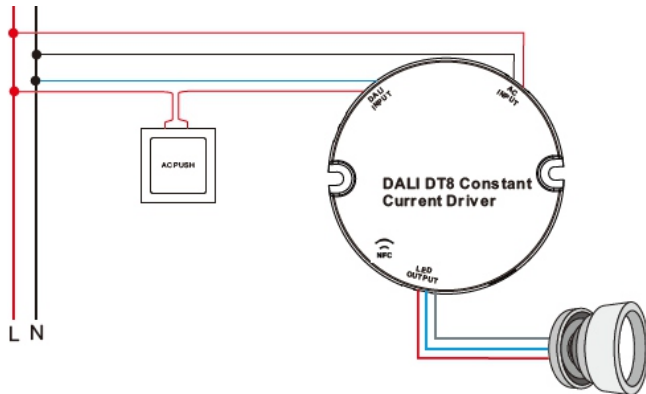
A-THD Vs Load %



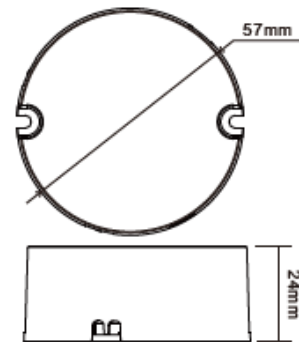
DALI Wiring Diagram



Wiring Diagram for Push Dim & Push CCT



Mechanical dimensions

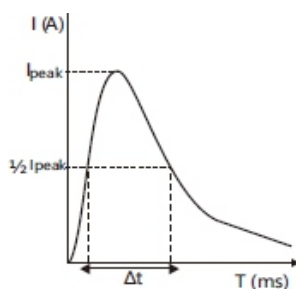


AC Push Function

- 1) Click the button to switch ON/OFF
- 2) Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.

MCB Load Quantity

Module Number	Ipeak	Twidth	Max.quantity of LED Driver per MCB														
			B 10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRPY-2305N-10CC100-500	3.16A	72μs	60	78	96	120	150	70	91	112	140	175	80	104	128	160	200
SRPY-2309N-10CCT100-500	3.16A	72μs	60	78	96	120	150	70	91	112	140	175	80	104	128	160	200



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.