

45W DALI-2 DT8 CCT LED Driver

PRODUCT DESCRIPTION

- 45W DALI-2 DT8 Constant current LED Driver
- Inbuilt Strain relive
- DALI Dimming – 0.01% to 100%
- O/P Voltage range 6 – 58Vdc, O/P Current 500 – 1400mA
- Supports CLO & Corridor function
- Compact form factor L-145 x W-45 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-2309N-45CCT500-1400**



Output

| | |
|----------------------|--|
| Output Voltage range | 6Vdc – 58Vdc |
| Output current | 500 – 1400mA via NFC setting (with 0.1mA step) |
| Output Power | 45W Max |
| No of Channels | 2 Channel (Supports 3 / 4 wire system) |

Input

| | |
|------------------------------------|-------------------------------------|
| Rated Voltage (V) | 220-240Vac |
| Operating Voltage Range (V) | 180-264Vac |
| Operating Frequency (Hz) | 50 / 60 |
| Input Current (Typical) | 0.25A @ 230VAC |
| System Power Consumption (Typical) | 50W |
| 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. 8.56A at 230VAC; 88µs 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 |
| 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 |

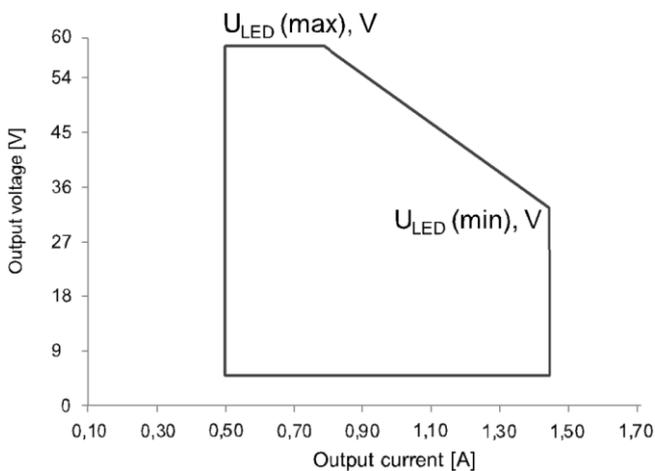
Safety & EMC

| | |
|----------------------|---|
| 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 |

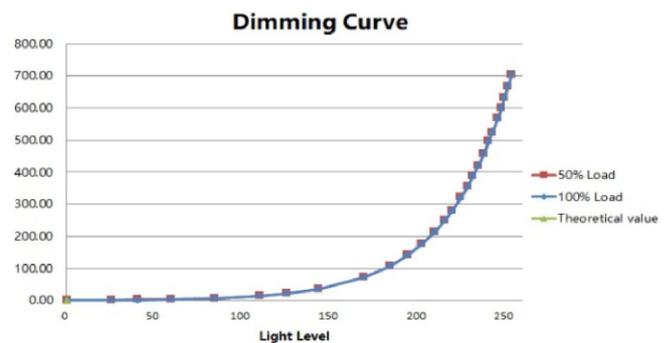
Other

| | |
|-----------|------------------------|
| Life | 50,000 Hours @ Tc 85°C |
| Weight | 0.27 Kg |
| IP Rating | IP20 |

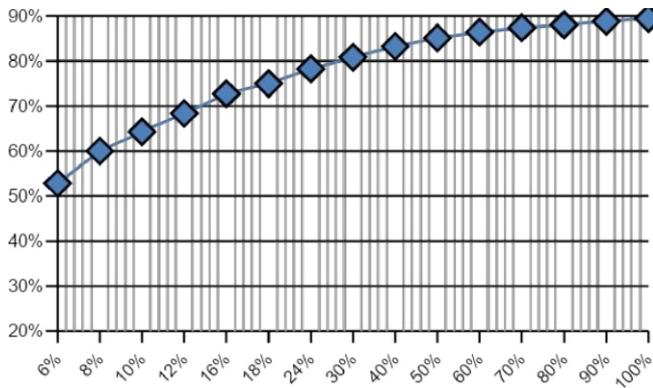
Voltage and current operating window



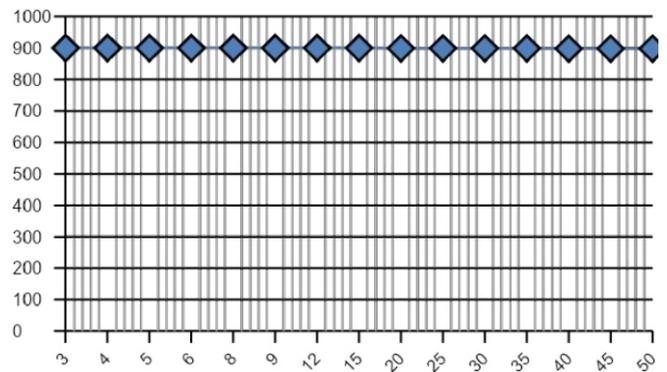
Dimming Curve



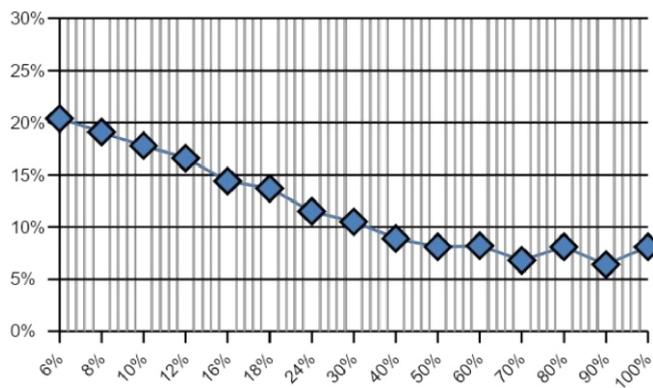
Typical Efficiency Vs Load %



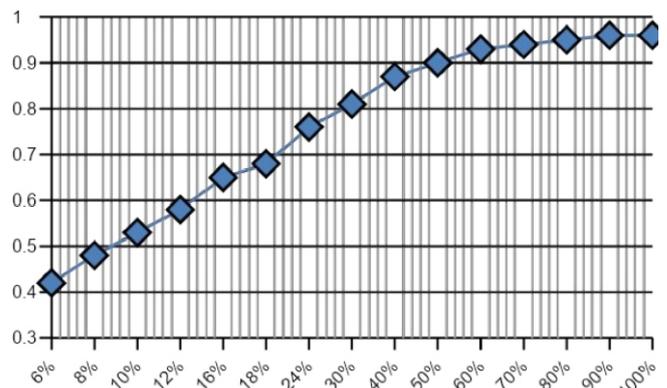
Typical Load voltage V/S Current



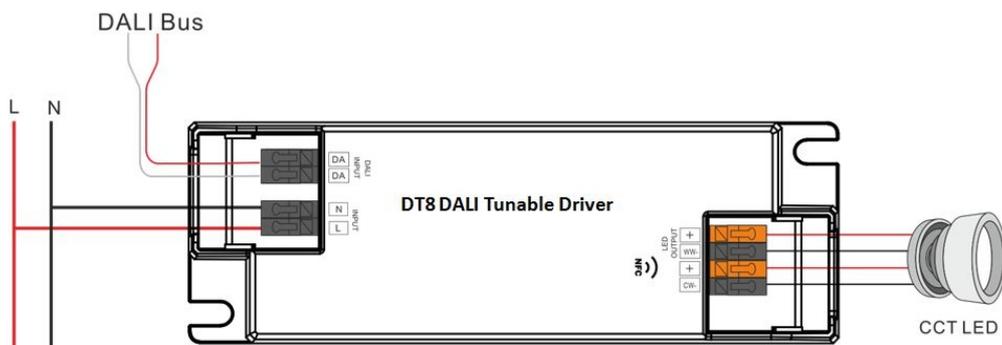
A-THD Vs Load %



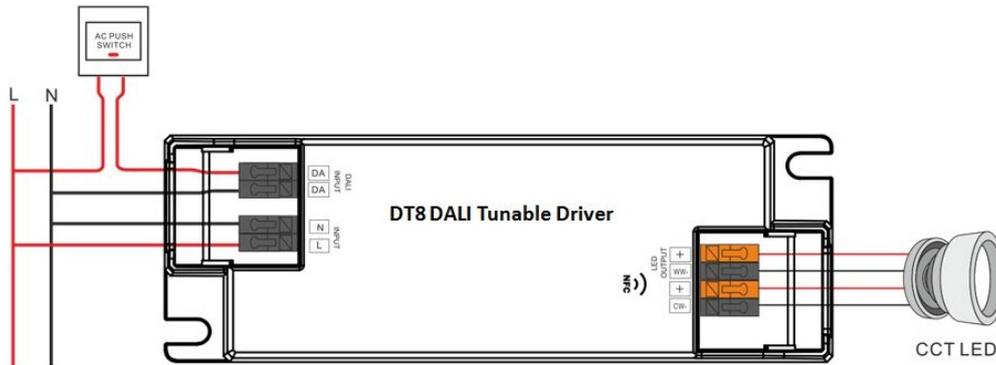
Power factor vs Load



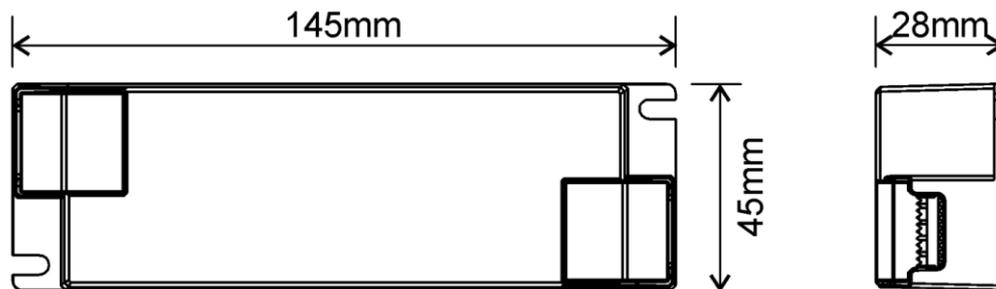
DALI Wiring Diagram



Wiring Diagram for Push Dim & Push CCT

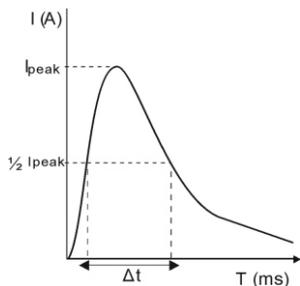


Mechanical dimensions



MCB Load Quantity

| Module Number | I _{peak} | Twidth | Max. quantity of LED Driver per MCB | | | | | | | | | | | | | | |
|-------------------------|-------------------|--------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | B10 | B13 | B16 | B20 | B25 | C10 | C13 | C16 | C20 | C25 | D10 | D13 | D16 | D20 | D25 |
| SRP-2305N-45CC500-1400 | 8.56A | 88μs | 17 | 22 | 28 | 35 | 43 | 28 | 36 | 44 | 56 | 70 | 32 | 41 | 51 | 64 | 80 |
| SRP-2309N-45CCT500-1400 | 8.56A | 88μs | 17 | 22 | 28 | 35 | 43 | 28 | 36 | 44 | 56 | 70 | 32 | 41 | 51 | 64 | 80 |



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.