

## PRODUCT DATASHEET

### OTi DALI 50/220...240/1A4 LT2 L G2

OPTOTRONIC® Intelligent | – Dimmable DALI SELV LEDset (LT2)



#### Areas of application

- Linear lighting for office, education, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for luminaires of protection class I

#### Product benefits

- Fully programmable via software (DALI Interface)
- Flexible current setting (LEDset2)
- Lifetime: up to 100,000 h (temperature at  $T_c = 65^\circ\text{C}$ , max. 10 % failure rate)
- High-quality dimming of 1...100 % by amplitude dimming (except 80 W versions)
- High quality of light thanks to <1% output ripple current
- Very high efficiency
- Very low standby power consumption: < 0.15 W \*
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

#### Versatile scope of application due to OSRAM DALI Technology:

- Easy to use in corridors and restrooms because of three-level Corridor function
- Touch DIM application: easy to control via pushbutton or sensor
- Energy efficient Touch DIM operation due to automatic switch-off at sufficient residual light
- Suitable for emergency Installations (acc. to EN 60598-2-22 and IEC 61347-2-13, appendix J) thanks to DC detection (0 Hz, pulsating DC), on/off switchable
- Feedback of power consumption and operating hours (Fit for SMART GRID)
- Suitable for buildings according to EPBD/BREEAM/LEED due to automatic Constant Lumen Output setting
- Luminaire information for easy maintenance

#### Product features

- Line frequency: 0 Hz | 50 Hz | 60 Hz

- Versatile DALI window driver up to 80 W due to flexible output characteristic
- Supply voltage: 220...240 V
- Available with output current range: up to 2,100 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- DALI-2 certified (Part -101,-102 and -207)

TECHNICAL DATA

Electrical data

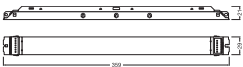
|                                          |                    |
|------------------------------------------|--------------------|
| Nominal wattage                          | 54.00 W            |
| Nominal output power                     | 12...50 W          |
| Nominal voltage                          | 220...240 V        |
| Nominal output voltage                   | 15...54 V          |
| Input voltage AC                         | 198...264 V        |
| Input voltage DC                         | 176...276 V        |
| U-OUT (working voltage)                  | < 60 V             |
| Nominal output current                   | 600...1400 mA      |
| Inrush current                           | 20 A               |
| Output current tolerance                 | ±3 % <sup>1)</sup> |
| Output ripple current (100 Hz)           | < 1 %              |
| Mains frequency                          | 0/50/60 Hz         |
| Total harmonic distortion                | < 15 %             |
| Power factor λ                           | > 0.95             |
| ECG efficiency                           | up to 91 %         |
| Device power loss                        | 6 W                |
| Max. ECG no. on circuit breaker 10 A (B) | 13                 |
| Max. ECG no. on circuit breaker 16 A (B) | 20                 |
| Max. ECG no. on circuit breaker 25 A (B) | -                  |
| Surge capability (L/N-Ground)            | 2 kV               |
| Surge capability (L-N)                   | 1 kV               |
| Galvanic isolation                       | SELV               |
| Power loss in stand-by mode              | < 0.15 W           |

1) When use DALI

Photometrical data

|                                 |      |
|---------------------------------|------|
| Flickering metric (Pst LM)      | ≤1   |
| Stroboscope effect metric (SVM) | ≤0.4 |

Dimensions & Weight



|        |           |
|--------|-----------|
| Length | 360.00 mm |
|--------|-----------|

|                                      |                           |
|--------------------------------------|---------------------------|
| Mounting hole spacing, length        | 350,0 mm                  |
| Width                                | 30.00 mm                  |
| Height                               | 21.00 mm                  |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup> |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2</sup> |
| Wire preparation length, input side  | 8.0...9.0 mm              |
| Wire preparation length, output side | 8.0...9.0 mm              |
| Product weight                       | 240.00 g                  |

### Colors & materials

|                 |       |
|-----------------|-------|
| Casing material | Metal |
| Body material   | Metal |

### Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -25...+50 °C           |
| Maximum temperature at tc test point     | 75 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

<sup>1)</sup> Maximum 56 days/year at 85 %

### Lifespan

|              |                                  |
|--------------|----------------------------------|
| ECG lifetime | 50000 h / 100000 h <sup>1)</sup> |
|--------------|----------------------------------|

<sup>1)</sup> At maximum T<sub>c</sub> = 75°C / 10% failure rate / At T<sub>c</sub> = 65°C / 10% failure rate

### Additional product data

|              |    |
|--------------|----|
| Encapsulated | No |
|--------------|----|

### Capabilities

|                                        |                                       |
|----------------------------------------|---------------------------------------|
| Dimmable                               | Yes                                   |
| Dimming interface                      | DALI-2 / Touch DIM / Touch DIM Sensor |
| Dimming range                          | 1...100 %                             |
| Overheating protection                 | Automatic reversible                  |
| Overload protection                    | Non-reversible                        |
| No-load proof                          | Yes                                   |
| Short-circuit protection               | Automatic reversible                  |
| Max. cable length to lamp/LED module   | 2,0 m                                 |
| Suitable for fixtures with prot. class | I                                     |
| Suitable for emergency lighting        | Yes                                   |
| Type of connection, output side        | Push terminal                         |

## Certificates & Standards

|                           |                                                                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / EL / ENEC 10 / VDE-EMC / CCC / RCM                                                                                                       |
| Standards                 | Acc. to EN 61347-1 / Acc. to EN 61347-2-13 / Acc. to EN 55015 / Acc. to EN 61547 / Acc. to EN 61000-3-2 / Acc. to EN 62384 / Acc. to EN 62386 |
| Protection class          | I                                                                                                                                             |
| Type of protection        | IP20                                                                                                                                          |

## LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -40...+85 °C |
|------------------------------|--------------|

## Energy labelling regulation data acc EU 2019/2015

|                                 |         |
|---------------------------------|---------|
| Networked standby power for CLS | ≤0.17 W |
|---------------------------------|---------|

## DOWNLOAD DATA

| Documents and certificates                                                         |                               |
|------------------------------------------------------------------------------------|-------------------------------|
|    | User instruction              |
|  | Declarations Of Conformity CE |
|  | Certificates                  |
| CAD/BIM files                                                                      |                               |
|  | CAD data 3D PDF               |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4052899551787 | Unpacked<br>1                |                                      |              |                      |
| 4052899551794 | Shipping box<br>20           | 385 mm x 160 mm x 100 mm             | 5071.00 g    | 6.16 dm <sup>3</sup> |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.