

## PRODUCT DATASHEET

### OTi DALI 35/220...240/700 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 FAMILY BENEFITS

- Fully programmable via software (DALI Interface)
- Flexible current setting (LEDset2)
- Lifetime: up to 100,000 h (temperature at  $T_c = 65\text{ °C}$ , 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

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**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

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**PRODUCT FAMILY 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)

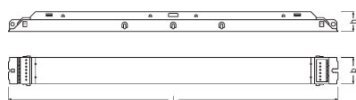
**TECHNICAL DATA**

## Electrical data

|  |             |
|--|-------------|
| <b>Nominal voltage</b>                   | 220...240 V |
| <b>Mains frequency</b>                   | 50...60 Hz  |
| <b>Input voltage AC</b>                  | 198...264 V |
| <b>Input voltage DC</b>                  | 176...276 V |
| <b>Total harmonic distortion</b>         | < 15 %      |
| <b>Power factor <math>\lambda</math></b> | > 0.95      |
| <b>ECG efficiency</b>                    | up to 90 %  |
| <b>Device power loss</b>                 | 4.0 W       |
| <b>Power loss in stand-by mode</b>       | <0.15 W     |
| <b>Protective conductor current</b>      | <0.5 mA     |

|  |              |
|--|--------------|
| Inrush current                           | 20 A         |
| Max. ECG no. on circuit breaker 10 A (B) | 15           |
| Max. ECG no. on circuit breaker 16 A (B) | 24           |
| Max. ECG no. on circuit breaker 25 A (B) | -            |
| Surge capability (L/N-Ground)            | 2 kV         |
| Surge capability (L-N)                   | 1 kV         |
| Nominal output voltage                   | 15...54 V    |
| U-OUT (working voltage)                  | < 60 V       |
| Nominal output current                   | 200...700 mA |
| Output current tolerance                 | ±3 %         |
| Output ripple current (100 Hz)           | < 1 %        |
| Nominal output power                     | 4...37 W     |
| Galvanic isolation                       | SELV         |

### Dimensions & weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Length                               | 360.0 mm                  |
| Width                                | 30.0 mm                   |
| Height                               | 21.0 mm                   |
| Mounting hole spacing, length        | 350.0 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> |
| Product weight                       | 240.00 g                  |
| Wire preparation length, input side  | 8.0...9.0 mm              |
| Wire preparation length, output side | 8.0...9.0 mm              |

### Colors & materials

|                 |       |
|-----------------|-------|
| Casing 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 / 100000 h <sup>1)</sup> |
|--------------|--------------------------------|

<sup>1)</sup> At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate / At  $T_c = 65^\circ\text{C}$  / 10% failure rate

### Additional product data

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

### Capabilities

|  |                      |
|--|----------------------|
| Dimmable                               | Yes                  |
| Dimming interface                      | DALI / Touch DIM     |
| Dimming range                          | 1...100 %            |
| Dimming method                         | Amplitude Modulation |
| Constant lumen function                | Yes                  |
| Overheating protection                 | Automatic reversible |
| Overload protection                    | Non-reversible       |
| Short-circuit protection               | Yes                  |
| No-load proof                          | Yes                  |
| 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 |
| Type of protection        | IP20  |

### Logistical data

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

### DOWNLOAD DATA

| File  |
|---|
|  User instruction<br>OPTOTRONIC LED Power Supply |

|   |   |
|---|---|
|    | Product Datasheet<br>Product datasheet OTI DALI 35 G2   |
|    | Certificates<br>VDE ENEC Certificate 40038447   |
|    | Certificates<br>VDE EMC Certificate 40038827  |
|    | Certificates<br>OTI DALI LT2 L G2 CB DE1 60134 040320   |
|    | Declarations of conformity<br>EU Declaration of Conformity 3634324 (EN)                                 |
|    | Declarations of conformity<br>EATON(CEAG)-Conformity declaration AM06315_OTiDALI35_220-240_700_LT2_L_G2 |
|    | Declarations of conformity<br>INOTEC- Conformity declaration AM06315_OTiDALI35_220-240_700_LT2_L_G2     |
|    | Declarations of conformity<br>EATON(CEAG)-Conformity declaration AN00953 OTI DALI 35220-240700 LT2 L G2 |
|    | Declarations of conformity<br>INOTEC-Conformity declaration AN00953 OTI DALI 35220-240700 LT2 L G2      |
|    | CAD data<br>CAD data STEP OTI DALI 35,50LT2 L G2  |
|   | CAD data<br>OTI DALI LT2L G2 IGS 060220   |
|  | CAD data<br>OTI DALI LT2L G2 STEP 060220  |
|  | CAD Data 2-dim<br>OTI DALI LT2L G2 CAD2PDF 060220   |
|  | CAD data 3-dim<br>OTI DALI LT2L G2 CAD3PDF 060220   |
|  | CAD data PDF<br>CAD data PDF OTI DALI 35,50LT2 L G2   |

**LOGISTICAL DATA**

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4052899551763 | Unpacked<br>1                | - x - x -                            |              |                      |
| 4052899551770 | Shipping carton 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.