

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

OPTOTRONIC Intelligent | – Dimmable DALI



### Areas of application

- Installation in emergency lighting systems according to IEC 61347-2-3, appendix J
- Suitable for use in luminaires with flexible current setting (DALI, CLO, LEDset)
- Suitable for indoor SELV and non-SELV installations
- Suitable for luminaires of protection class I

### Product benefits

- Versatile DALI window driver up to 90 W due to flexible output characteristic
- Very high efficiency and reliability
- Protection of the system thanks to thermal management and Smart Control

### 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

### Product features

- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Line voltage: 198...264 V
- Safety according to EN 61347-1, 61347-2-3, 61347-2-13, 62384
- RI suppression according to EN 55015:2007+A1:2007/CDN
- Line harmonics according to EN 61000-3-2

## Product datasheet

- Immunity according to EN 61547
- Lifetime: up to 100,000 h (temperature at  $T_c = 65\text{ °C}$ , max. 10 % failure rate)

## 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 <sup>1)</sup>   |
| <b>Input voltage DC</b>                         | 176...276 V                 |
| <b>Total harmonic distortion</b>                | < 18 %                      |
| <b>Power factor <math>\lambda</math></b>        | > 0,95 <sup>2)</sup>        |
| <b>ECG efficiency</b>                           | 89 % <sup>3)</sup>          |
| <b>Device power loss</b>                        | 6.5 W <sup>4)</sup>         |
| <b>Power loss in stand-by mode</b>              | <0.5 W                      |
| <b>Protective conductor current</b>             | <2.0 mA                     |
| <b>Inrush current</b>                           | 53 A                        |
| <b>Max. ECG no. on circuit breaker 10 A (B)</b> | 8                           |
| <b>Max. ECG no. on circuit breaker 16 A (B)</b> | 13                          |
| <b>Surge capability (L/N-Ground)</b>            | 2 kV                        |
| <b>Surge capability (L-N)</b>                   | 1 kV                        |
| <b>Nominal output voltage</b>                   | 20...54 V <sup>5)</sup>     |
| <b>U-OUT (working voltage)</b>                  | 60 V                        |
| <b>Nominal output current</b>                   | 600...1400 mA <sup>6)</sup> |
| <b>Output current tolerance</b>                 | ±5 %                        |
| <b>Nominal output power</b>                     | 54 W                        |
| <b>Galvanic isolation</b>                       | SELV equivalent             |
| <b>Galvanic isolation primary/secondary</b>     | 3.75 kV <sup>7)</sup>       |

<sup>1)</sup> Permitted voltage range

<sup>2)</sup> Full load at 230 V

<sup>3)</sup> At full load and 230 V

<sup>4)</sup> Maximum

<sup>5)</sup> Maximum 60 V

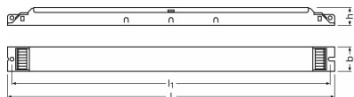
<sup>6)</sup> ±5%

<sup>7)</sup> SELV-equivalent

# Product datasheet

## Dimensions & weight

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|   |   |
|---|---|
| <b>Length</b>                               | 360.0 mm                                |
| <b>Width</b>                                | 30.0 mm                                 |
| <b>Height</b>                               | 21.0 mm                                 |
| <b>Product weight</b>                       | 285.00 g                                |
| <b>Cable cross-section, input side</b>      | 0.5...1.5 mm <sup>2</sup> <sup>1)</sup> |
| <b>Cable cross-section, output side</b>     | 0.5...1.5 mm <sup>2</sup> <sup>1)</sup> |
| <b>Wire preparation length, input side</b>  | 8.5...9.5 mm                            |
| <b>Wire preparation length, output side</b> | 8.5...9.5 mm                            |

<sup>1)</sup> Solid or flexible leads

## Colors & materials

|                        |       |
|------------------------|-------|
| <b>Casing material</b> | Metal |
|------------------------|-------|

## Temperatures

|   |              |
|---|--------------|
| <b>Ambient temperature range</b>                | -25...+50 °C |
| <b>Maximum temperature at tc test point</b>     | 75 °C        |
| <b>Max.housing temperature in case of fault</b> | 110 °C       |
| <b>Temperature range at storage</b>             | -25...75 °C  |

## Lifespan

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

<sup>1)</sup> At maximum T<sub>c</sub> / 10 % failure rate

## Additional product data

|                     |    |
|---------------------|----|
| <b>Encapsulated</b> | No |
|---------------------|----|

## Capabilities

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## Product datasheet

|   |                                     |
|---|-------------------------------------|
| <b>Dimmable</b>                               | Yes                                 |
| <b>Dimming interface</b>                      | DALI / Touch DIM / Touch DIM Sensor |
| <b>Dimming range</b>                          | 1...100 % <sup>1)</sup>             |
| <b>Constant lumen function</b>                | Programmable                        |
| <b>Overheating protection</b>                 | Automatic reversible                |
| <b>Overload protection</b>                    | Automatic reversible                |
| <b>Short-circuit protection</b>               | Automatic reversible                |
| <b>No-load proof</b>                          | Yes                                 |
| <b>Max. cable length to lamp/LED module</b>   | 2.0 m                               |
| <b>Suitable for fixtures with prot. class</b> | I                                   |
| <b>Suitable for emergency lighting</b>        | Yes                                 |
| <b>Type of connection, output side</b>        | Push terminal                       |

<sup>1)</sup> For maximum nominal output current

### Certificates & standards







|                                  |  |
|----------------------------------|--|
| <b>Approval marks – approval</b> | ENEC 10 / VDE / EMC / EL / CE  |
| <b>Standards</b>                 | 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 |
| <b>Type of protection</b>        | IP20   |

### Logistical data

|                                     |                        |
|-------------------------------------|------------------------|
| <b>Temperature range at storage</b> | -25...75 °C            |
| <b>Relative humidity</b>            | 5...85 % <sup>1)</sup> |

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

### Download Data

| File  |   |
|---|---|
|  | Product Datasheet<br>Datasheet_OTi DALI 50220-2401A4 LT2 L    |
|  | Brochures<br>OPTOTRONIC Linear LED drivers (GB)               |
|  | Certificates<br>CB Certificate OTi DALI LT2 L                 |
|  | Certificates<br>ENEC Certification OT FIT CS L OTi DALI LT2 L |
|  | Certificates<br>CE Declaration OTi DALI linear                |
|  | CAD data 3-dim<br>OTi-DALI XX LT2 L                           |

## Product datasheet

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### Logistical Data

| Product code  | Product description                | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|------------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899028098 | OTi DALI<br>50/220...240/1A4 LT2 L | Shipping carton box<br>20    | 385 mm x 160 mm x 100 mm             | 6.16 dm <sup>3</sup> | 5971.00 g    |

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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.

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### Disclaimer

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