

## PRODUCT DATASHEET

### OTi DALI 35/220...240/1A0 LT2

OPTOTRONIC Intelligent | Compact constant current LED drivers – Dimmable DALI LT2



#### AREAS OF APPLICATION

- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for use in luminaires with flexible current setting (DALI, CLO, LEDset)
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II
- Suitable for downlights, spotlights and LED panels
- Installation via Cable Clamp Kit possible (depending on version of product)

#### PRODUCT FAMILY BENEFITS

- Versatile DALI window driver due to flexible output characteristic
- Very high efficiency
- Protection of the system thanks to thermal management and Smart Control
- High-quality dimming of 1...100 % by amplitude dimming
- Soft switch off function (OTi DALI 15)

#### 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 FAMILY 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
- Prepared for DALI-2 certification (Part -101,-102 and -207)
- RI suppression according to EN 55015:2007+A1:2007/CDN
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 100,000 h (temperature at  $T_c = 65\text{ }^\circ\text{C}$ , max. 10 % failure rate)
- Type of protection: IP20
- Independent connection via through-looping (except OTi DALI 15)

## 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>	< 20 %
<b>Power factor <math>\lambda</math></b>	> 0.95
<b>ECG efficiency</b>	86 % <sup>2)</sup>
<b>Device power loss</b>	5.7 W
<b>Power loss in stand-by mode</b>	<0.1 W
<b>Inrush current</b>	< 20 A <sup>3)</sup>
<b>Max. ECG no. on circuit breaker 10 A (B)</b>	35
<b>Max. ECG no. on circuit breaker 16 A (B)</b>	55
<b>Max. ECG no. on circuit breaker 25 A (B)</b>	-
<b>Surge capability (L/N-Ground)</b>	2 kV
<b>Surge capability (L-N)</b>	1 kV
<b>Nominal output voltage</b>	15...54 V <sup>4)</sup>
<b>U-OUT (working voltage)</b>	60 V
<b>Nominal output current</b>	350...1050 mA <sup>5)</sup>
<b>Output current tolerance</b>	±3 %
<b>Output ripple current (100 Hz)</b>	< 2 %
<b>Nominal output power</b>	35 W <sup>6)</sup>
<b>Galvanic isolation</b>	SELV
<b>Galvanic isolation primary/secondary</b>	3.75 kV

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

<sup>2)</sup> Typical / At full load and 230 V

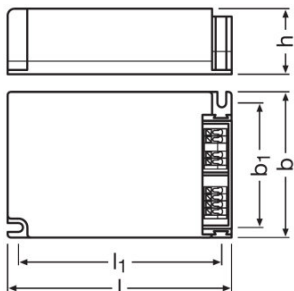
<sup>3)</sup>  $t_{\text{width}} = 50\ \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

<sup>4)</sup> Maximum 60 V

<sup>5)</sup> ±5%

<sup>6)</sup> Partial load 15...35 W

Dimensions & weight



<b>Length</b>	103.0 mm
<b>Width</b>	67.0 mm
<b>Height</b>	29.5 mm
<b>Mounting hole spacing, length</b>	94.0 mm
<b>Mounting hole spacing, width</b>	58.0 mm
<b>Product weight</b>	149.00 g
<b>Cable cross-section, input side</b>	0.2...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Cable cross-section, output side</b>	0.2...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Wire preparation length, input side</b>	8.0...9.0 mm
<b>Wire preparation length, output side</b>	8.0...9.0 mm

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

Colors & materials

<b>Casing material</b>	Plastic
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Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 °C
<b>Maximum temperature at tc test point</b>	75 °C <sup>1)</sup>
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Permitted rel. humidity during operation</b>	5...85 %

<sup>1)</sup> Maximum at the T<sub>c</sub>-point

Lifespan

<b>ECG lifetime</b>	50000 / 100000 h <sup>1)</sup>
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<sup>1)</sup> T<sub>c</sub> = 75°C, 0.2% / 1,000 h failure rate / T<sub>c</sub> = 65°C, 0.1% / 1,000 h failure rate

Additional product data

<b>Encapsulated</b>	No
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### Capabilities

<b>Dimmable</b>	Yes
<b>Dimming interface</b>	DALI / Touch DIM / Touch DIM Sensor
<b>Dimming range</b>	1...100 % <sup>1)</sup>
<b>Dimming method</b>	Amplitude Modulation
<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 / II
<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 / DALI-2
<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/Acc. to EN 62386/Acc. to IEC 62386-101:Ed2/Acc. to IEC 62386-102:Ed2/Acc. to IEC 62386-207:Ed1
<b>Protection class</b>	II
<b>Type of protection</b>	IP20

### Logistical data

<b>Temperature range at storage</b>	-25...85 °C
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### DOWNLOAD DATA

File	
	User instruction OPTOTRONIC LED Power Supply
	Certificates VDE ENEC Certificate 40038447
	Certificates VDE EMC Certificate 40038827
	Declarations of conformity EATON(CEAG)-Conformity declaration AB42876_OTi_DALI_35_220-240_1A0_LT2
	Declarations of conformity INOTEC- Conformity declaration AB42876_OTi_DALI_35_220-240_1A0_LT2
	Declarations of conformity EU Declaration of Conformity 3365628



CAD data 3-dim  
491388\_CAD OTi DALI 351A0 LT2 OTi DALI 25700 LT2



CAD data 3-dim  
491391\_IGS - CAD OTi DALI 351A0 LT2 OTi DALI 25700 LT2



CAD data PDF  
491387\_CAD OTi DALI 351A0 LT2 OTi DALI 25700 LT2

**LOGISTICAL DATA**

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899488168	OTi DALI 35/220...240/1A0 LT2	Shipping carton box 20	357 mm x 222 mm x 96 mm	7.61 dm <sup>3</sup>	3231.00 g

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.