

# PRODUCT DATASHEET OTi DALI 15/220...240/1A0 LT2

OPTOTRONIC® Intelligent - DALI LT2 | Compact constant current LED drivers



#### 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 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

#### 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: to EN 55015/CISPR 15
- Line harmonics according to EN 61000-3-2

- Immunity according to EN 61547
- Lifetime: up to 100,000 h
- Type of protection: IP20
- Independent connection via through-looping (except OTi DALI 15)

# **TECHNICAL DATA**

# **Electrical data**

Nominal wattage	18.00 W
Nominal output power	18 W <sup>1)</sup>
Nominal voltage	220240 V
Nominal output voltage	7,554 V <sup>2)</sup>
Input voltage AC	198264 V <sup>3)</sup>
Input voltage DC	176276 V
U-OUT (working voltage)	60 V
Nominal current	0.12 A
Nominal output current	1501050 mA <sup>4)</sup>
Inrush current	5 A <sup>5)</sup>
Output current tolerance	+/- 3 %
Output ripple current (100 Hz)	< 2 % <sup>6)</sup>
Mains frequency	0/60 Hz
Total harmonic distortion	< 10 % <sup>7)</sup>
Power factor $\lambda$	0.95
Device power loss	2,4 W
Max. ECG no. on circuit breaker 10 A (B)	82
Max. ECG no. on circuit breaker 16 A (B)	130
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV

<sup>1)</sup> Partial load 3...18 W

# Photometrical data

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

# **Dimensions & Weight**

<sup>2) &</sup>lt;sub>Maximum 60 V</sub>

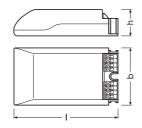
<sup>3)</sup> Permitted voltage range

<sup>4) +/- 5 %</sup> 

<sup>5)</sup>  $t_{width}$  = 220 µs (measured at 50 %  $t_{peak}$ )

<sup>6)</sup> Ripple average at 100 Hz

<sup>7)</sup> At full load, 220...240 V, 50 Hz / see graphs



Length	95.00 mm
Width	53.00 mm
Height	30.00 mm
Cable cross-section, input side	0,21,5 mm <sup>2</sup> 1)
Cable cross-section, output side	0,21,5 mm <sup>2</sup> 1)
Wire preparation length, input side	8.09.0 mm
Wire preparation length, output side	8.09.0 mm
Product weight	100.00 g

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

# Colors & materials

Product color	White
Casing material	Plastic
Body material	Plastic

# Temperatures & operating conditions

Ambient temperature range	-20+50 °C
Maximum temperature at tc test point	80 °C ¹)
Max.housing temperature in case of fault	100 °C
Permitted rel. humidity during operation	585 % <sup>2)</sup>

<sup>1)</sup> Maximum at the Tc-point

# **Capabilities**

Dimmable	Yes	
Dimming interface	DALI / Touch DIM / Touch DIM Sensor	
Dimming range	1100 % 1)	
Overheating protection	Automatic reversible	
Overload protection	Automatic reversible	
No-load proof	Yes	

<sup>2)</sup> Maximum 56 days/year at 85 %

Short-circuit protection	Automatic reversible
Max. cable length to lamp/LED module	2,0 m
Suitable for fixtures with prot. class	1/11
Type of connection, output side	Push terminal

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

#### Certificates & Standards

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

#### **LOGISTICAL DATA**

Temperature range at storage	-2585 °C

# Energy labelling regulation data acc EU 2019/2015

Networked standby power for CLS ≤0.30 W
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#### **DOWNLOAD DATA**

	Documents and certificates
PDF	User instruction
PDF	Declarations Of Conformity CE
PDF	Declarations Of Conformity UKCA

#### **LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4062172143912	Unpacked 1		167.00 g	
4062172143929	Shipping box 20	284 mm x 207 mm x 96 mm	2270.00 g	5.64 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.