

PRODUCT DATASHEET

OTi DALI 15/220...240/1A0 Box

OPTOTRONIC® Intelligent – DALI Box | Compact constant current LED driver Kits



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
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II
- Suitable for downlights, spotlights and LED panels

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
- Driver with cable clamps, including resistors for typical output current set
- Easy and fast output current setting via NFC

Versatile scope of application due to OSRAM DALI Technology:

- 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
- According to EN 61347-1, 61347-2-13, 62384
- 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
- Type of protection: IP20

TECHNICAL DATA

Electrical data

Nominal output power	18 W ¹⁾
Nominal voltage	220...240 V
Nominal output voltage	7,5...54 V ²⁾
Input voltage AC	198...264 V ³⁾
Input voltage DC	176...264 V
U-OUT (working voltage)	60 V
Nominal output current	150...1050 mA ⁴⁾
Inrush current	5 A
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 2 % ⁵⁾
Mains frequency	0/50/60 Hz
Total harmonic distortion	< 10 % ⁶⁾
Power factor λ	0.95
ECG efficiency	88 % ⁷⁾
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
Galvanic isolation	SELV
Operating frequency	0/50/60 Hz
Power loss in stand-by mode	< 0.27 W

1) Partial load 3...18 W

2) Maximum 60 V

3) Permitted voltage range

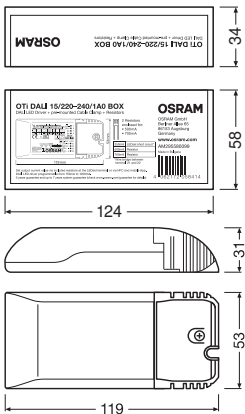
4) ±3%

5) Ripple average at 100 Hz %

6) At full load, 220...240 V, 50 Hz / see graphs

7) Typical / At full load and 230 V

Dimensions & Weight



Length	119.0 mm
Width	53.0 mm
Height	31.0 mm
Cable cross-section, input side	0.2...1.5 mm ² 1)
Cable cross-section, output side	0.2...1.5 mm ² 1)
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Product weight	116.00 g

1) 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	110 °C
Permitted rel. humidity during operation	5...85 % 2)

1) Maximum at the Tc-point

2) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h / 100000 h 1)
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1) T_C = 80°C, 0.2% / 1,000 h failure rate / T_C = 70°C, 0.1% / 1,000 h failure rate

Additional product data

Encapsulated	No
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Capabilities

Dimmable	Yes
Dimming interface	DALI / Touch DIM / Touch DIM Sensor
Dimming range	1...100 % ¹⁾
Overheating protection	Automatic reversible
Overload protection	Automatic 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 / II
Suitable for emergency lighting	Yes
Type of connection, output side	Push terminal

¹⁾ For maximum nominal output current






Certificates & Standards



Approval marks – approval	ENEC 10 / VDE / EMC / EL / CE / DALI-2
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 / Acc. to IEC 62386-101:Ed2 / Acc. to IEC 62386- 102:Ed2 / Acc. to IEC 62386-207:Ed1
Protection class	II

LOGISTICAL DATA

Temperature range at storage	-40...+85 °C
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DOWNLOAD DATA

Documents and certificates	Document name
 User instruction / safety instructions	OPTOTRONIC LED Power Supply
 Declarations of conformity	EU Declaration of Conformity 3365628
 Declarations of conformity	INOTEC-Conformity Declaration AM12411 OTi DALI 15/220-240/1A0 LT2 NFC
 Declarations of conformity	EATON(CEAG)-Conformity declaration AM12411 DALI 15/220-240/1A0 LT2 NFC
 Declarations of conformity	EU Declaration of Conformity 3758701

Documents and certificates		Document name
	Certificates	VDE ENEC Certificate 40038447
	Certificates	VDE EMC Certificate 40044675 (EN)

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4062172058414	Folding box 1		386.00 g	
4062172058421	Shipping box 10	188 mm x 138 mm x 141 mm	1428.00 g	3.66 dm ³

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.