

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

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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

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PRODUCT FAMILY 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

Product description	Nominal voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ	ECG efficiency	Device power loss
OTi DALI 15/220...240/1A0 Box	220...240 V	0/50/60 Hz	198...264 V ¹⁾	< 10 % ²⁾	0.95	88 % ³⁾	2.4 W
OTi DALI 50/220...240/1A4 Box	220...240 V	0/50/60 Hz	198...264 V ¹⁾	< 10 % ²⁾	> 0.95	91 % ³⁾	7.5 W
OTi DALI 25/220...240/700 Box	220...240 V	0/50/60 Hz	198...264 V ¹⁾	< 20 % ²⁾	> 0.95	88 % ³⁾	4.5 W
OTi DALI 35/220...240/1A0 Box	220...240 V	0/50/60 Hz	198...264 V ¹⁾	< 20 %	> 0.95	89 % ³⁾	5.7 W

Product description	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)
OTi DALI 15/220...240/1A0 Box	5 A ⁴⁾	82	130	-	2 kV
OTi DALI 50/220...240/1A4 Box	30 A ⁸⁾	12	20	-	2 kV ⁹⁾
OTi DALI 25/220...240/700 Box	< 20 A ¹²⁾	50	80	-	2 kV
OTi DALI 35/220...240/1A0 Box	< 20 A ¹²⁾	35	55	-	2 kV

Product description	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	Nominal output current	Nominal output power
OTi DALI 15/220...240/1A0 Box	1 kV	7.5...54 V ⁵⁾	60 V	150...1050 mA ⁶⁾	18 W ⁷⁾
OTi DALI 50/220...240/1A4 Box	1 kV	15...54 V ⁵⁾	60 V	600...1400 mA ¹⁰⁾	55 W ¹¹⁾
OTi DALI 25/220...240/700 Box	1 kV	12...54 V ⁵⁾	60 V	180...700 mA ⁶⁾	27 W ¹³⁾
OTi DALI 35/220...240/1A0 Box	1 kV	15...54 V ⁵⁾	60 V	350...1050 mA ⁶⁾	35 W ¹⁴⁾

1) Permitted voltage range

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

3) Typical

4) $t_{width} = 220 \mu s$ (measured at 50 % I_{peak})

5) Maximum 60 V

6) $\pm 3\%$

7) Partial load 3...18 W

8) $t_{width} = 200 \mu s$ (measured at 50 % I_{peak})

9) Functional Earth

10) $\pm 5\%$

11) Partial load 22...55 W

12) $t_{width} = 50 \mu s$ (measured at 50 % I_{peak})

13) Partial load 7...27 W

14) Partial load 15...35 W

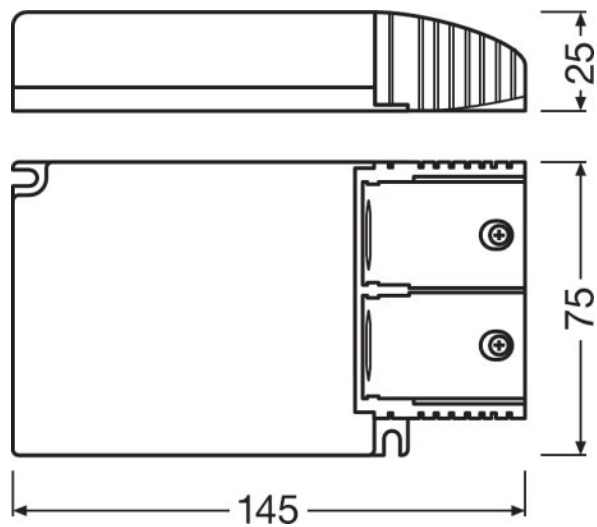
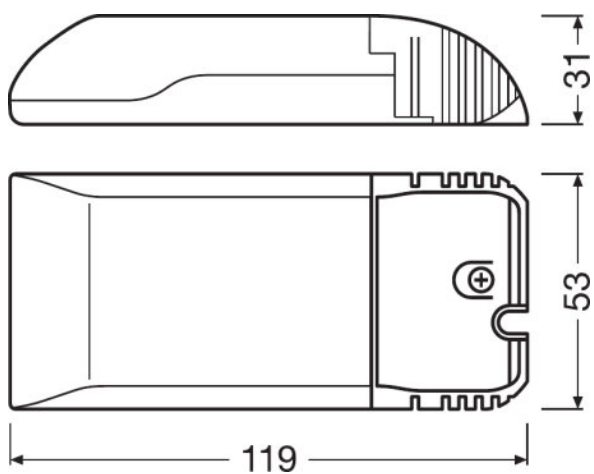
Dimensions & weight

Product description	Length	Width	Height	Mounting hole spacing, length	Mounting hole spacing, width	Cable cross-section, input side
OTi DALI 15/220...240/1A0 Box	119.0 mm	53.0 mm	31.0 mm	- mm	- mm	0.2...1.5 mm ² ¹⁾
OTi DALI 50/220...240/1A4 Box	145.0 mm	75.0 mm	25.0 mm	99.0 mm	64.0 mm	0.2...1.5 mm ² ¹⁾
OTi DALI 25/220...240/700 Box	138.0 mm	67.0 mm	29.5 mm	94.0 mm	58.0 mm	0.2...1.5 mm ² ¹⁾
OTi DALI 35/220...240/1A0 Box	138.0 mm	67.0 mm	29.5 mm	94.0 mm	58.0 mm	0.2...1.5 mm ² ¹⁾

Product description	Cable cross-section, output side	Wire preparation length, input side	Product weight	Wire preparation length, output side
OTi DALI 15/220...240/1A0 Box	0.2...1.5 mm ² ¹⁾	8.0...9.0 mm	116.00 g	8.0...9.0 mm
OTi DALI 50/220...240/1A4 Box	0.2...1.5 mm ² ¹⁾	8.0...9.0 mm	209.00 g	8.0...9.0 mm
OTi DALI 25/220...240/700 Box	0.2...1.5 mm ² ¹⁾	8.0...9.0 mm	175.00 g	8.0...9.0 mm
OTi DALI 35/220...240/1A0 Box	0.2...1.5 mm ² ¹⁾	8.0...9.0 mm	175.00 g	8.0...9.0 mm

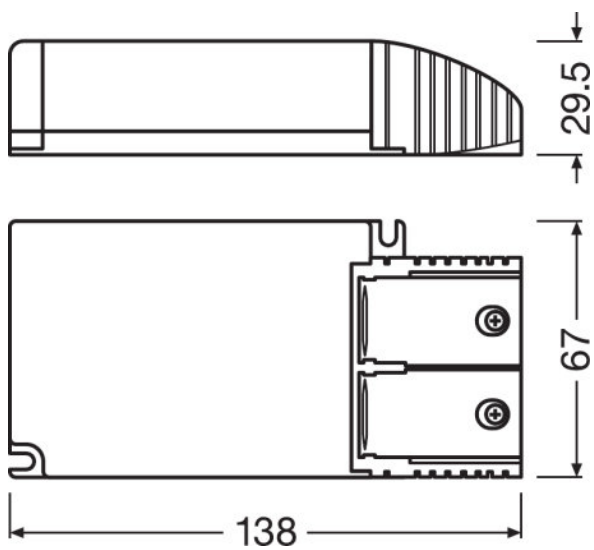
1) Solid or flexible leads

Product line drawing



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

OTi DALI 50/220...240/1A4 Box



OTi DALI 25/220...240/700 Box, OTi DALI 35/220...240/1A0 Box

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Permitted rel. humidity during operation
OTi DALI 15/220...240/1A0 Box	-20...+50 °C	80 °C ¹⁾	110 °C	5...85 % ²⁾
OTi DALI 50/220...240/1A4 Box	-20...+50 °C	80 °C ¹⁾	110 °C	5...85 % ²⁾
OTi DALI 25/220...240/700 Box	-20...+50 °C	75 °C ¹⁾	110 °C	5...85 % ²⁾
OTi DALI 35/220...240/1A0 Box	-20...+50 °C	75 °C ¹⁾	110 °C	5...85 % ²⁾

¹⁾ Maximum at the T_c-point

²⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OTi DALI 15/220...240/1A0 Box	50000 / 100000 h ¹⁾
OTi DALI 50/220...240/1A4 Box	50000 / 100000 h ¹⁾
OTi DALI 25/220...240/700 Box	50000 / 100000 h ²⁾
OTi DALI 35/220...240/1A0 Box	50000 / 100000 h ²⁾

¹⁾ T_c = 80°C, 0.2% / 1,000 h failure rate

²⁾ T_c = 75°C, 0.2% / 1,000 h failure rate

Additional product data

Product description	Encapsulated
OTi DALI 15/220...240/1A0 Box	No
OTi DALI 50/220...240/1A4 Box	No
OTi DALI 25/220...240/700 Box	No
OTi DALI 35/220...240/1A0 Box	No

Capabilities

Product description	Overheating protection	Overload protection	Type of connection, output side
OTi DALI 15/220...240/1A0 Box	Automatic reversible	Automatic reversible	Push terminal
OTi DALI 50/220...240/1A4 Box	Automatic reversible	Automatic reversible	Push terminal
OTi DALI 25/220...240/700 Box	Automatic reversible	Automatic reversible	Push terminal
OTi DALI 35/220...240/1A0 Box	Automatic reversible	Automatic reversible	Push terminal

Certificates & standards

Product description	Type of protection
OTi DALI 15/220...240/1A0 Box	IP20
OTi DALI 50/220...240/1A4 Box	IP20
OTi DALI 25/220...240/700 Box	IP20
OTi DALI 35/220...240/1A0 Box	IP20

Logistical data

Product description	Temperature range at storage
OTi DALI 15/220...240/1A0 Box	-40...+85 °C
OTi DALI 50/220...240/1A4 Box	-40...+85 °C
OTi DALI 25/220...240/700 Box	-40...+85 °C
OTi DALI 35/220...240/1A0 Box	-40...+85 °C









APPLICATION ADVICE












For more detailed application information and graphics please see product datasheet.

SALES AND TECHNICAL SUPPORT

Sales and Technical Support www.ledvance.com

DOWNLOAD DATA

File
 User instruction OPTOTRONIC LED Power Supply
 Product Datasheet 637617_Preliminary DS OT CABLE CLAMP F-STYLE (GB)
 Certificates VDE ENEC Certificate 40038447
 Certificates VDE EMC Certificate 40044675 (EN)
 Declarations of conformity EATON(CEAG)-Conformity declaration AM12411 DALI 15220-2401A0 LT2 NFC
 Declarations of conformity INOTEC-Conformity Declaration AM12411 OTi DALI 15220-2401A0 LT2 NFC
 Declarations of conformity EU Declaration of Conformity 3758701
 Declarations of conformity EU Declaration of Conformity 3365628

	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Cable clamp A style DS 101219 (EN)
	Certificates 730563_VDE Certificate
	Declarations of conformity INOTEC Conformity declaration AM12413_OTi_DALI_50_220-240_1A4_LT2_FAN_NFC
	Declarations of conformity EATON(CEAG) Conformity declaration AM12413_OTi_DALI_50_220-240_1A4_LT2_FAN_NFC
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet 350858_Datasheet OT CABLE CLAMP B-STYLE
	Declarations of conformity EATON(CEAG) Conformity declaration AM12229_OTi_DALI_25_220-240_700_LT2_NFC
	Declarations of conformity INOTEC Conformity declaration AM12229_OTi_DALI_25_220-240_700_LT2_NFC
	Declarations of conformity EATON(CEAG) Conformity declaration AM12412_OTi_DALI_35_220-240_1A0_LT2_NFC
	Declarations of conformity INOTEC Conformity declaration AM12412_OTi_DALI_35_220-240_1A0_LT2_NFC

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4062172058421	Shipping carton box 10	188 mm x 138 mm x 141 mm	1428.00 g	3.66 dm ³
4062172058483	Shipping carton box 10	188 mm x 163 mm x 181 mm	2450.00 g	5.55 dm ³
4062172058445	Shipping carton box 10	188 mm x 163 mm x 181 mm	1944.00 g	5.55 dm ³
4062172058469	Shipping carton box 10	188 mm x 163 mm x 181 mm	2157.00 g	5.55 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.