

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

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



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
- 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)

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

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 datasheet

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)

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V ¹⁾
Input voltage DC	176...276 V
Total harmonic distortion	< 20 %
Power factor λ	0.72 C095
Efficiency in full-load	89 % ²⁾
Device power loss	5.7 W
Inrush current	< 20 A ³⁾
Max. ECG no. on circuit breaker 10 A (B)	35
Max. ECG no. on circuit breaker 16 A (B)	55
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	15...54 V ⁴⁾
U-OUT (working voltage)	60 V
Nominal output current	350...1050 mA ⁵⁾
Output current LEDset open	175 mA
Output current LEDset shorted	700 mA
Default output current	700 mA ⁶⁾
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 2 % ⁷⁾
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	35 W ⁸⁾
Maximum output power	35 W
Power loss in stand-by mode	<0.1 W
Galvanic isolation primary/secondary	SELV
Current set	DALI / LEDset2
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV
Networked standby power	≤0.10 W ²⁾

¹⁾ Permitted voltage range

²⁾ at 230 V, 50 Hz

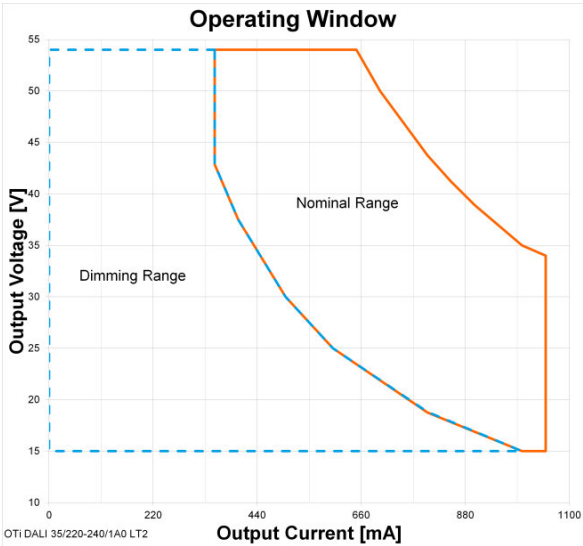
³⁾ $t_{\text{width}} = 50 \mu\text{s}$ (measured at 50 % I_{peak})

⁴⁾ Maximum 60 V

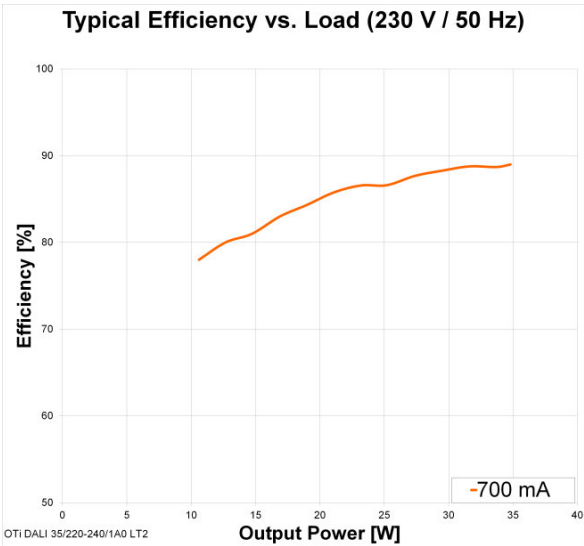
⁵⁾ ±3%

Product datasheet

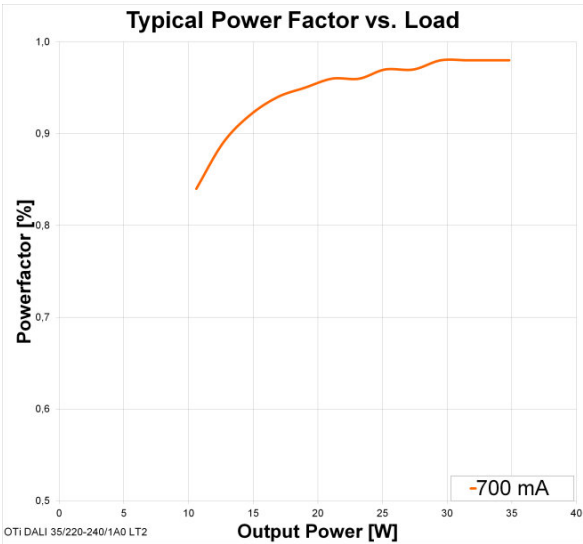
- 6) LEDset deactivated
- 7) Ripple average at 100 Hz
- 8) Partial load 15...35 W



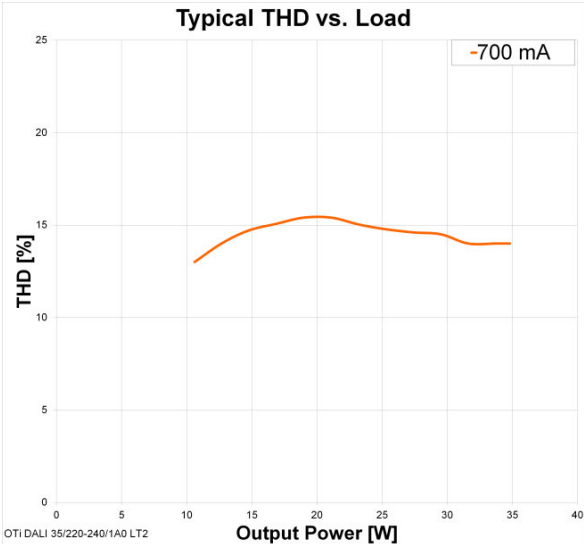
OTi DALI 35 Operating Window



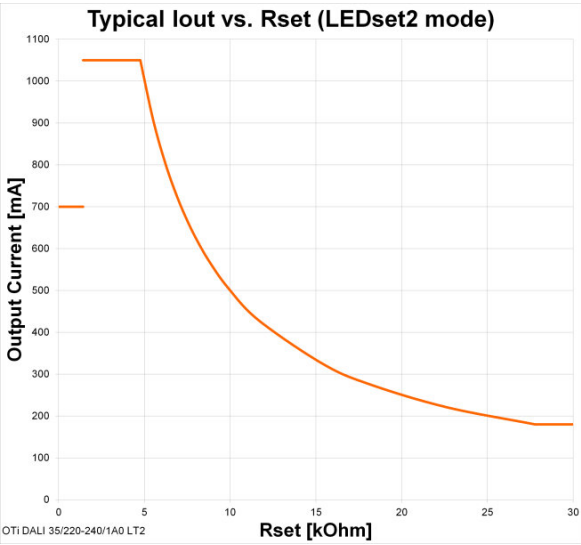
OTi DALI 35 Typical Efficiency vs. Load



OTi DALI 35 Typical Power Factor vs. Load

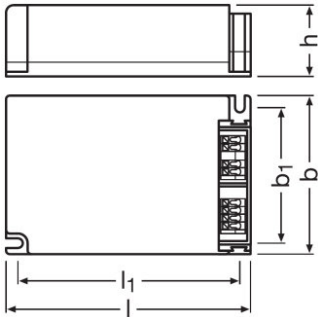


OTi DALI 35 Typical THD vs. Load



OTi DALI 35 Typical I_{out} vs. R_{set}

Dimensions & weight



Mounting hole spacing, length	94.0 mm
Mounting hole spacing, width	58.0 mm
Product weight	14900 g
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
Length	1030 mm
Width	670 mm
Height	295 mm

1) Solid or flexible leads

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	75 °C 1)
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-25...85 °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 / 100000 h 1)
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1) $T_c = 75^{\circ}\text{C}$, 0.2% / 1,000 h failure rate / $T_c = 65^{\circ}\text{C}$, 0.1% / 1,000 h failure rate

Capabilities

Dimmable	Yes
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor
Dimming range	1...100 % 1)
Dimming method	Amplitude Modulation
Constant lumen function	Programmable
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Intended for no-load operation	No
Max. cable length to lamp/LED module	2.0 m 2)
Suitable for fixtures with prot. class	I / II
Suitable for emergency lighting	Yes
Type of connection, output side	Push terminal
Suitable for through-wiring	Yes with optional cable clamp
Programming interface	DALI, LEDset
Number of channels	1
DALI-2 Energy Data	Yes 3)
DALI-2 Diagnostic Data	Yes 4)

1) For maximum nominal output current

2) Output wires must be routed as close as possible to each other

3) Acc. DALI part 252

4) Acc. DALI part 253

Programming

Tuner4TRONIC Field App	No
Programming device	DALI / LEDset

Programmable features

Operating Current	Yes
Lamp Operating Time	Yes
Driver Guard	No
DALI Settings	Yes
Emergency Mode	Yes
DALI-2 Luminaire Data	Yes ¹⁾
Configuration Lock	No
Soft Switch Off	Yes
Dim to Dark	No
TouchDIM + Sensor	Yes
Corridor Functionality	Yes
OEM Key	Yes

1) Acc. DALI part 251

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
Type of protection	IP20

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	12-05-2023
Primary Article Identifier	4052899488168
Candidate List Substance 1	Lead

Product datasheet

CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	ef386587-888a-4ecb-97c0-d615a42f9032

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Certificates OT ENEC 40038447 260623
	Certificates OT EMC 40038827 300922
	Declarations of conformity OTi DALI LT2 UK DoC 4281294 180221
	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 OTi DALI LT2 CE 3365628 200821
	CAD data 3-dim 491388_OTi DALI 25 35 LT2 STEP 61119
	CAD data 3-dim 491391_OTi DALI 25 35 LT2 IGS 61119
	CAD data PDF 491387_OTi DALI 25 35 LT2 CADPDF 61119

Ecodesign regulation information:

Intended for use with LED modules.
The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Product datasheet

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	345 mm x 216 mm x 86 mm	6.41 dm ³	3211.00 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.

Accessories Optional

Product description	Accessory name	Accessory code
OTi DALI 35/220...240/1A0 LT2	OT CABLE CLAMP B-STYLE	▶ 4052899077881
OTi DALI 35/220...240/1A0 LT2	OT CABLE CLAMP B-STYLE TL	▶ 4052899948051

Data privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.mynosram.com and downloading theTuner4TRONIC software from the Internet. The Tuner4TRONIC software enables users to access and view the operational data of a luminaire or driver via the corresponding programming interfaces. A password key (Config Lock) must be set up in the driver via the Tuner4TRONIC software in order to control which users can access and view operational data. Follow the instructions for password setup. To grant an external person or company rights to access or view operational data, you can assign password keys. In this case, however, you are responsible for ensuring that the third party concerned takes notice of the information described here. However, OSRAM can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, OSRAM will also use its access rights in order to optimize or improve driver hardware and driver functions. In accordance with data privacy principles, any user of operating data (luminaire manufacturers, third parties with access rights) must ensure that personal data (e.g. name, address, location IDs) are only merged with the prior written consent of the person (end user) concerned. The respective user of the operating data is responsible for providing evidence of consent.

Disclaimer

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