

product_datasheet_title

OTi DALI 25/220...240/700 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	27.00 W
Nominal output power	27 W ¹⁾
Nominal voltage	220...240 V
Nominal output voltage	12...54 V ²⁾
Input voltage AC	198...264 V ³⁾
Input voltage DC	176...276 V
U-OUT (working voltage)	60 V
Nominal current	0.14 A
Nominal output current	180...700 mA ⁴⁾
Inrush current	20 A ⁵⁾
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 1 % ⁶⁾
Mains frequency	0/50/60 Hz
Total harmonic distortion	< 20 % ⁷⁾
Power factor λ	> 0.95
ECG efficiency	88 % ⁸⁾
Device power loss	4,5 W
Max. ECG no. on circuit breaker 10 A (B)	50
Max. ECG no. on circuit breaker 16 A (B)	80
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Power loss in stand-by mode	< 0.1 W

1) Partial load 7...27 W

2) Maximum 60 V

3) Permitted voltage range

4) ±3%

5) $t_{width} = 100 \mu s$ (measured at 50 % i_{peak})

6) Ripple average at 100 Hz %

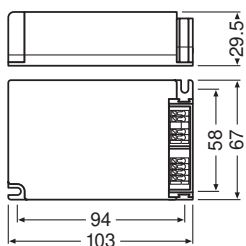
7) At full load, 220...240 V, 50 Hz / see graphs

8) Typical / At full load and 230 V

PHOTOMETRICAL DATA

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

DIMENSIONS & WEIGHT



Length	103.00 mm
Mounting hole spacing, length	94,0 mm
Width	67.00 mm
Height	29.50 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	149.00 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	75 °C 1)
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5...85 % 2)

1) Maximum at the T_c-point

2) Maximum 56 days/year at 85 %

LIFESPAN

ECG lifetime	50000 h / 100000 h 1)
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1) T_c = 75°C, 0.2% / 1,000 h failure rate / T_c = 65°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 / BIS
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





Temperature range at storage	-25...85 °C
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Energy labelling regulation data

Networked standby power for CLS	≤0.15 W
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download_data

	Documents and certificates	document_name
	User instruction	OPTOTRONIC LED Power Supply
	Addon Technical Information	729816_PPT OTi DALI Compact
	Declarations Of Conformity CE	EATON(CEAG)-Conformity declaration AB42877_OTi_DALI_25_220-240_700_LT2

Documents and certificates		document_name
	Declarations Of Conformity CE	EU Declaration of Conformity 3365628
	Declarations Of Conformity CE	INOTEC- Conformity declaration AB42877_OTi_DALI_25_220-240_700_LT2
	Certificates	VDE EMC Certificate 40038827
	Certificates	VDE ENEC Certificate 40038447

CAD/BIM files		document_name
	CAD data 3D PDF	491387_OTi DALI 25 35 LT2 CADPDF 61119

logistical_data

product_code	packaging_unit	dimensions	weight	volume
4052899488144	Unpacked 1		149.00 g	
4052899488151	Shipping box 20	357 mm x 222 mm x 96 mm	3231.00 g	7.61 dm ³

logistical_data_text

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