

product_datasheet_title

OTi DALI 50/220...240/1A4 LT2 L G2

OPTOTRONIC® Intelligent | – Dimmable DALI SELV LEDset (LT2)



areas_of_application

- Linear lighting for office, education, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for luminaires of protection class I

product_benefits

- Fully programmable via software (DALI Interface)
- Flexible current setting (LEDset2)
- Lifetime: up to 100,000 h (temperature at $T_c = 65\text{ °C}$, max. 10 % failure rate)
- High-quality dimming of 1...100 % by amplitude dimming (except 80 W versions)
- High quality of light thanks to <1% output ripple current
- Very high efficiency
- Very low standby power consumption: < 0.15 W *
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

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
- Luminaire information for easy maintenance

product_features

- Line frequency: 0 Hz | 50 Hz | 60 Hz

- Versatile DALI window driver up to 80 W due to flexible output characteristic
- Supply voltage: 220...240 V
- Available with output current range: up to 2,100 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- DALI-2 certified (Part -101,-102 and -207)

technical_data

ELECTRICAL DATA

Nominal wattage	54.00 W
Nominal output power	12...50 W
Nominal voltage	220...240 V
Nominal output voltage	15...54 V
Input voltage AC	198...264 V
Input voltage DC	176...276 V
U-OUT (working voltage)	< 60 V
Nominal output current	600...1400 mA
Inrush current	20 A
Output current tolerance	±3 % ¹⁾
Output ripple current (100 Hz)	< 1 %
Mains frequency	0/50/60 Hz
Total harmonic distortion	< 15 %
Power factor λ	> 0.95
ECG efficiency	up to 91 %
Device power loss	6 W
Max. ECG no. on circuit breaker 10 A (B)	13
Max. ECG no. on circuit breaker 16 A (B)	20
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
Power loss in stand-by mode	< 0.15 W

¹⁾ When use DALI

PHOTOMETRICAL DATA

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

DIMENSIONS & WEIGHT



Length	360.00 mm
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Mounting hole spacing, length	350,0 mm
Width	30.00 mm
Height	21.00 mm
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Product weight	240.00 g

COLORS & MATERIALS

Casing material	Metal
Body material	Metal

TEMPERATURES & OPERATING CONDITIONS

Ambient temperature range	-25...+50 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

LIFESPAN

ECG lifetime	50000 h / 100000 h ¹⁾
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¹⁾ At maximum T_c = 75°C / 10% failure rate / At T_c = 65°C / 10% failure rate

ADDITIONAL PRODUCT DATA

Encapsulated	No
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CAPABILITIES

Dimmable	yes
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor
Dimming range	1...100 %
Overheating protection	Automatic reversible
Overload protection	Non-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
Suitable for emergency lighting	Yes
Type of connection, output side	Push terminal

CERTIFICATES & STANDARDS

Approval marks – approval	CE / EL / ENEC 10 / VDE-EMC / CCC / RCM
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
Protection class	I
Type of protection	IP20












LOGISTICAL DATA

Temperature range at storage	-40...+85 °C
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Energy labelling regulation data

Networked standby power for CLS	≤0.17 W
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download_data

	Documents and certificates	document_name
	User instruction	OPTOTRONIC LED Power Supply
	Declarations Of Conformity CE	INOTEC-Conformity declaration AN00954 OTI DALI 50/220-240/1A4 LT2 L G2
	Declarations Of Conformity CE	EU Declaration of Conformity 3634324 (EN)
	Declarations Of Conformity CE	INOTEC- Conformity declaration AM06314_OTIDALI50_220-240_1A4_LT2_L_G2
	Declarations Of Conformity CE	EATON(CEAG)-Conformity declaration AN00954 OTI DALI 50/220-240/1A4 LT2 L G2
	Declarations Of Conformity CE	EATON(CEAG)-Conformity declaration AM06314_OTIDALI50_220-240_1A4_LT2_L_G2
	Certificates	OTI DALI LT2 L G2 CB DE1 60134 040320
	Certificates	VDE EMC Certificate 40038827
	Certificates	VDE ENEC Certificate 40038447
	CAD/BIM files	document_name
	CAD_STEP_3D	OTI DALI L G2
	CAD data 3D PDF	CAD data PDF OTI DALI 35,50/LT2 L G2

logistical_data

product_code	packaging_unit	dimensions	weight	volume
4052899551787	Unpacked 1			
4052899551794	Shipping box 20	385 mm x 160 mm x 100 mm	5071.00 g	6.16 dm ³

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