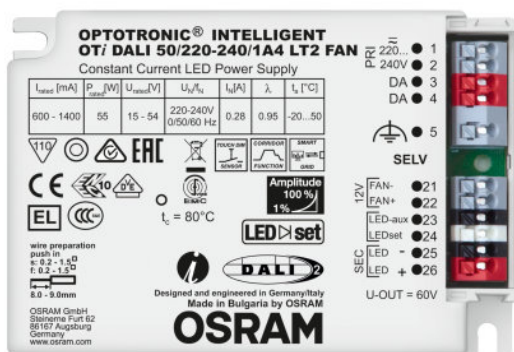


PRODUCT DATASHEET

OTi DALI 50/220...240/1A4 LT2 FAN

OPTOTRONIC Intelligent | Compact constant current LED drivers – Dimmable DALI



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 and reliability
- Protection of the system thanks to thermal management and Smart Control
- High-quality dimming of 1...100 % by amplitude dimming
- Soft switch off function (OTi DALI 15)

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
- Prepared for DALI-2 certification (Part -101,-102 and -207)
- 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 (temperature at $T_c = 65\text{ °C}$, max. 10 % failure rate)
- Type of protection: IP20
- Independent connection via through-looping (except OTi DALI 15)

TECHNICAL DATA

Electrical data

Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V ¹⁾
Input voltage DC	176...276 V
Total harmonic distortion	< 10 %
Power factor λ	> 0.95
ECG efficiency	91 % ²⁾
Device power loss	7.5 W
Power loss in stand-by mode	<0.15 W
Inrush current	30 A ³⁾
Max. ECG no. on circuit breaker 10 A (B)	12
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 ⁴⁾
Surge capability (L-N)	1 kV
Nominal output voltage	15...54 V ⁵⁾
U-OUT (working voltage)	60 V
Nominal output current	600...1400 mA ⁶⁾
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 2 %
Nominal output power	55 W ⁷⁾
Galvanic isolation	SELV
Galvanic isolation primary/secondary	3.75 kV

¹⁾ Permitted voltage range

²⁾ At full load and 230 V

³⁾ $t_{\text{width}} = 200\ \mu\text{s}$ (measured at 50 % I_{peak})

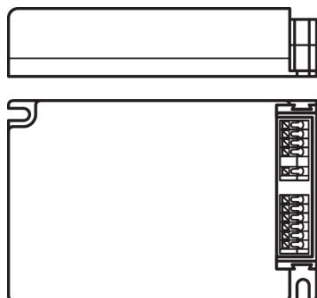
⁴⁾ Functional Earth

⁵⁾ Maximum 60 V

⁶⁾ ±5%

⁷⁾ Partial load 22...55 W

Dimensions & weight



Length	110.0 mm
Width	75.0 mm
Height	25.0 mm
Mounting hole spacing, length	99.0 mm
Mounting hole spacing, width	64.0 mm
Product weight	180.00 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	8.5...9.5 mm
Wire preparation length, output side	8.5...9.5 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	80 °C ¹⁾
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5...85 %

¹⁾ Maximum at the T_c-point

Lifespan

ECG lifetime	50000 / 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⁾
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
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	I
Type of protection	IP20

Logistical data

Temperature range at storage	-25...85 °C
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DOWNLOAD DATA

File	
	Product Datasheet Datasheet OTI DALI 50
	Certificates 730563_VDE Certificate
	Certificates 489247_ENEC Certification_OT FIT CS
	Declarations of conformity 711016_Declaration of Conformity_OTi DALI LT2 9C1
	CAD data 3-dim 491394_STEP-CAD - OTI DALI 50220-2401A4 LT2 FAN
	CAD data PDF 491393_CAD - OTI DALI 50220-2401A4 LT2 FAN



CAD data PDF
491395_IGS - CAD - OTI DALI 50220-2401A4 LT2 FAN

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899488182	OTi DALI 50/220...240/1A4 LT2 FAN	Shipping carton box 20	389 mm x 234 mm x 72 mm	6.55 dm ³	3912.00 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.

DISCLAIMER

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