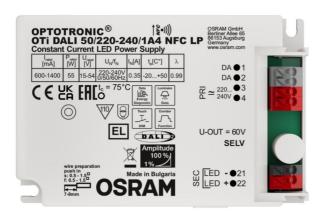
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OTi DALI 50/220-240/1A4 NFC LP

OPTOTRONIC Intelligent - DALI NFC LP | Compact constant current LED driver - Dimmable



Product family features

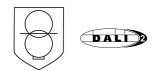
- Supply voltage: 220...240 V

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

Line voltage: 198...264 VLifetime: up to 100,000 hType of protection: IP20

Product family benefits

- Small housing for flexible luminaire designs
- Versatile DALI window driver due to flexible output characteristic
- Easy and fast output current setting via NFC
- Very high efficiency
- High-quality dimming of 1...100 % by amplitude dimming
- DALI-2 certified incl. Parts 251, 252, 253
- Easy to use in corridors and restrooms because of three-level Corridor function
- Touch DIM application: easy to control via pushbutton or sensor



Specifications are subject to changes without notice.

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Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for use in luminaires with flexible current setting
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II

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Technical data

Electrical data

Max. ECG no. on circuit breaker 10 A (B)	12
Max. ECG no. on circuit breaker 16 A (B)	20
Maximum output power	55 W ¹⁾
Nominal output current	6001400 mA ²⁾
Nominal output power	55 W ¹⁾
Nominal output voltage	1554 V ³⁾
Nominal input voltage	220240 V
Input voltage AC	198264 V ⁴⁾
Input voltage DC	176276 V
Efficiency in full-load	90 % 5)
Galvanic isolation DALI/mains	Basic
Galvanic isolation DALI/output	SELV
Galvanic isolation primary/secondary	SELV
Inrush current	20 A ⁶⁾
Networked standby power	≤0.19 W ⁵⁾
Power factor λ	0.64C0.98
Mains frequency	0,50,60 Hz
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
U-OUT (working voltage)	60 V
Current set	DALI / NFC
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 5 % ⁷⁾
Protective conductor current	not relevant
Total harmonic distortion	< 10 % ⁸⁾
Default output current	1050 mA

¹⁾ Partial load 9...55 W

^{2) ±3%}

³⁾ Maximum 60 V

⁴⁾ Permitted voltage range

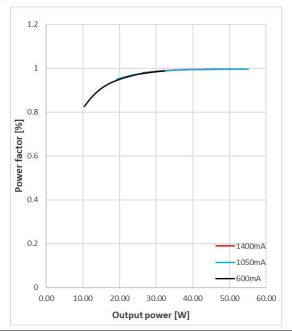
⁵⁾ at 230 V, 50 Hz

⁶⁾ t_{width} = 200 μs (measured at 50 % I_{peak}) 7) Ripple average at 100 Hz

⁸⁾ At full load, 220...240 V, 50 Hz / see graphs

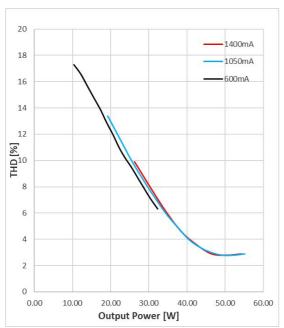
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Typical Power Factor v Load



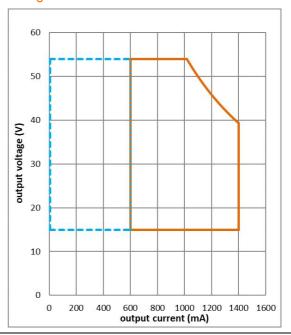
OTI DALI 50 NFC LP Typical Power Factor vs. Load

Typical THD v Load



OTI DALI 50 NFC LP Typical THD Vs Load

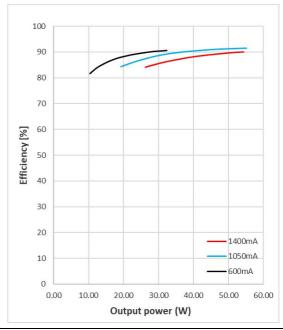
Operating Window



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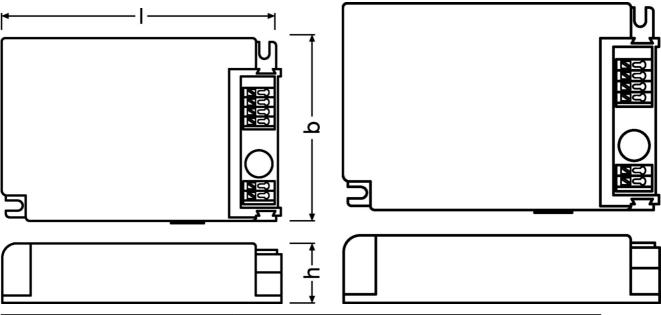
OTI DALI 50 NFC LP Operating window

Typical Efficiency v Load 230 V 50 Hz



OTI DALI 50 NFC LP Typical Efficiency vs. Load (230 V / 50 Hz)

Dimensions & weight



Book of Politic	475.00	
Product weight	175.00 g	
Length	103.0 mm	
Height	22.5 mm	
Width	67.0 mm	
Cable cross-section, input side	0.51.5 mm ² 1)	
Cable cross-section, output side	0.51.5 mm ² 1)	
Cable/wire length, output side	2000 mm	
Mounting hole spacing, length	94.0 mm	
Mounting hole spacing, width	58.0 mm	
Wire preparation length, input side	78 mm	
Wire preparation length, output side	78 mm	

¹⁾ Solid or flexible leads

Colors & materials

Casing material	Plastic
Product color	White

Temperatures & operating conditions

Ambient temperature range	-20+50 °C
Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	75 °C ¹⁾
Permitted rel. humidity during operation	585 % ²⁾
Temperature range at storage	-40+85 °C

¹⁾ Maximum at the Tc-point

²⁾ Maximum 56 days/year at 85 %

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Lifespan

ECG lifetime	50000 h / 100000 h ¹⁾

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

Capabilities

Max. cable length to lamp/LED module	2.0 m ¹⁾	
Number of channels	1	
Dimmable	Yes	
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor	
Dimming method	Amplitude Modulation	
Dimming range	1100 %	
Overload protection	Automatic reversible	
Overheating protection	Automatic reversible	
Short-circuit protection	Automatic reversible	
Suitable for through-wiring	No	
Suitable for emergency lighting	Yes	
Suitable for fixtures with prot. class	1/11	
Type of connection, input side	Push terminal	
Type of connection, output side	Push terminal	
Constant lumen function	Programmable	
No-load proof	Yes	
Programming interface	DALI, NFC	

¹⁾ Output wires must be routed as close as possible to each other

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Programming

Box programming	Vec
box programming	Yes

Programmable features

Dim to Dark	Yes
Configuration Lock	Yes
Corridor Functionality	Yes
DALI Settings	Yes
DALI-2 Luminaire Data	Yes 1)
Driver Guard	Yes
Emergency Mode	Yes
Soft Switch Off	Yes
Tuning Factor	Yes
TouchDIM + Sensor	Yes

¹⁾ Acc. DALI part 251

Certificates & standards

Type of protection	IP20	
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	
Approval marks – approval	CE / UKCA / EL / DALI-2 / EAC	

Logistical data

Commodity code	85044083900



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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.

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Download Data

File		
CAD data 3-dim	Compressed	►OTI DALI 50 NFC LP CAD3PDF 271021
CAD data 2-dim	Compressed	►OTI DALI 50 NFC LP CAD2PDF 271021
CAD data	Compressed	►OTI DALI 50 NFC LP IGS 271021
CAD data	Compressed	►OTI DALI 50 NFC LP STEP 271021
Mandatory Publications	PDF	►OTi DALI NFC LP CE 4378498 260422
Mandatory Publications	PDF	►OTi DALI NFC LP UK DoC 4378499 260422
User instruction	PDF	►OPTOTRONIC LED Power Supply



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Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172224024	OTi DALI 50/220-240/1A4 NFC LP	Shipping carton box 20 Pieces	218 x 124 x 155 mm	4.19 dm³	113.00 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

Data privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.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.

Accessories Optional

Product description	Accessory name	Accessory code
OTi DALI 50/220-240/1A4 NFC LP	PRH101 -USB	▶6977078996938
OTi DALI 50/220-240/1A4 NFC LP	CPR30 -USB	▶6977078996945

Disclaimer

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