

OTi DALI 25/220-240/300 D NFC F L

OPTOTRONIC Intelligent Flat – DALI (non-isolated) | Linear constant current LED driver – Dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile DALI window driver up to 75 W due to flexible output characteristic
- Supply voltage: 220...240 V
- Available with output current range: up to 500 mA
- DALI-2 certified (Part -101,-102 and -207)
- Monitoring of luminaire operating parameters
- Constant Lumen Output (CLO)
- Non-isolated drivers

Product family benefits

- Flat housing (16 mm height) for innovative luminaire designs and applications
- Fully programmable via software (DALI Interface, NFC)
- Advanced luminaire/driver data (power, energy, operating hours...) for analytics
- Prepared for DiiA Specification Parts -251, -252 and -253
- Lifetime: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)
- High-quality dimming of 1...100 % (amplitude and/or PWM selectable by software)
- Higher quality of light thanks to < 1% output ripple current
- Very high efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Areas of application

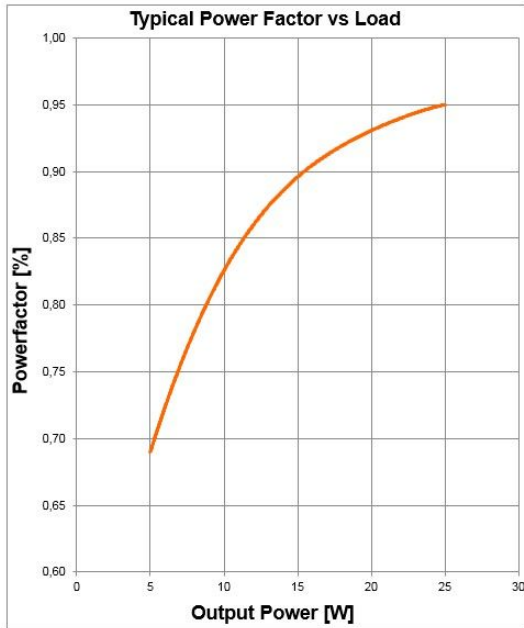
- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for luminaires of protection class I

Technical data

Electrical data

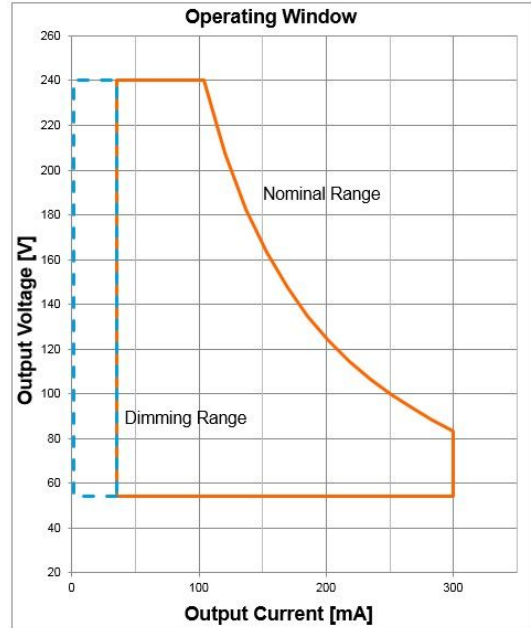
Device power loss	2.0 W
Nominal output voltage	54...240 V
Input voltage DC	176...276 V
Nominal output current	35...300 mA
Inrush current	21 A
Max. ECG no. on circuit breaker 10 A (B)	17
Max. ECG no. on circuit breaker 16 A (B)	28
Nominal output power	2.7...25 W
Input voltage AC	198...264 V
Power factor λ	0.30C...0.95
U-OUT (working voltage)	< 250 V
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Mains frequency	0/50/60 Hz
Protective conductor current	<0.5 mA
Nominal input voltage	220...240 V
Total harmonic distortion	9.50 %
Output current tolerance	± 3 %
Maximum output power	25 W
Galvanic isolation	Non isolated
Output ripple current (100 Hz)	< 1 %
Current set	DALI / NFC / Programmable

Typical Power Factor v Load



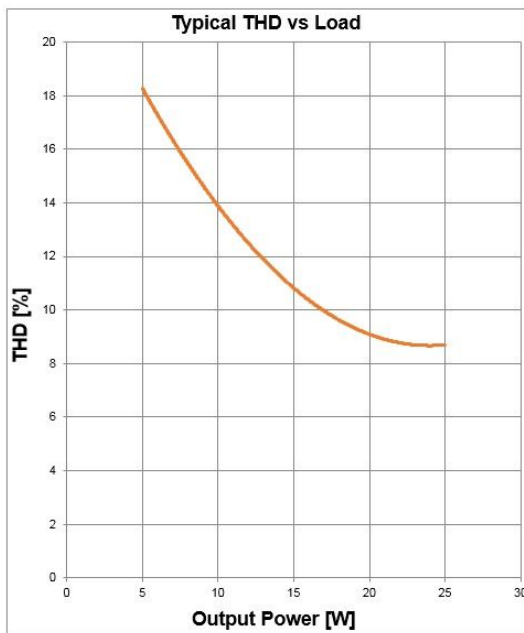
Typical Power factor vs. Load OTI DALI 25/220-240/300 D NFC FL

Operating Window



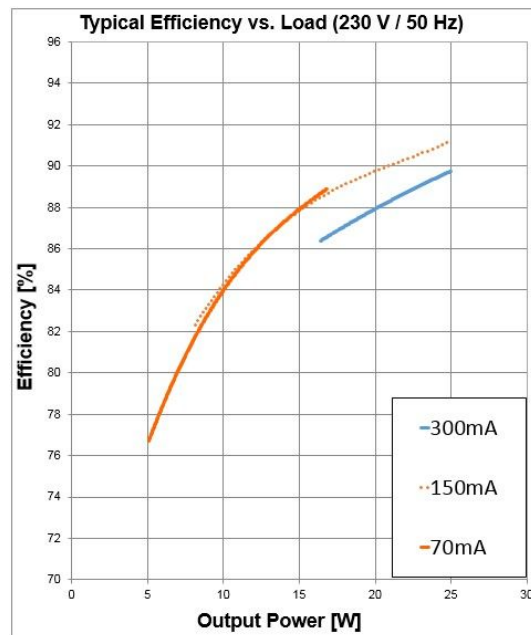
Operating Window OTI DALI 25/220-240/300 D NFC FL

Typical THD v Load



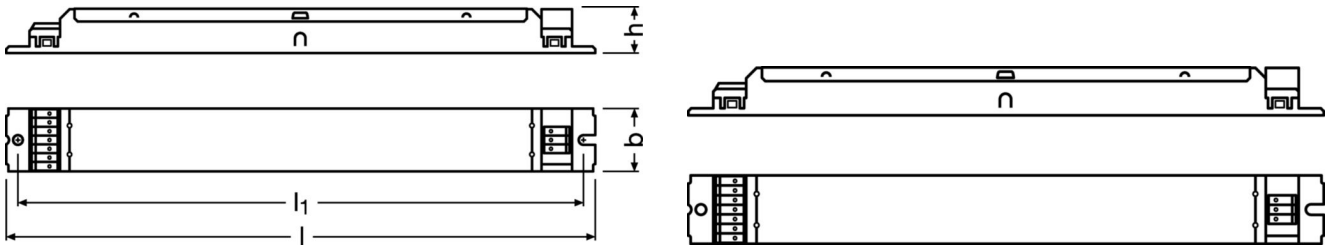
Typical THD vs Load OTI DALI 25/220-240/300 D NFC FL

Typical Efficiency v Load 230 V 50 Hz



Typical Efficiency vs. Load (230V/50Hz) OTI DALI 25/220-240/300 D NFC FL

Dimensions & weight



Product weight	205.00 g
Mounting hole spacing, length	270.0 mm
Wire preparation length, output side	8.0...9.0 mm
Wire preparation length, input side	8.0...9.0 mm
Cable cross-section, output side	0.5...1.5 mm ²
Cable cross-section, input side	0.5...1.5 mm ²
Length	280.0 mm
Height	16.0 mm

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	75 °C
Ambient temperature range	-25...+60 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

1) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h / 100000 h
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Capabilities

Max. cable length to lamp/LED module	2.0 m ¹⁾
Dimming range	0.1...100 %
Dimming method	Full analogue dimming / AM/PWM selectable
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor
Suitable for emergency lighting	Yes
Short-circuit protection	Automatic reversible
Overload protection	Automatic reversible
Overheating protection	Automatic reversible
Dimmable	Yes
Suitable for fixtures with prot. class	I
No-load proof	Yes
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Constant lumen function	Programmable
Programming interface	DALI, NFC

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

Programming

Box programming	Yes
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Programmable features

DALI-2 Luminaire Data	Yes
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Certificates & standards

Standards	Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to IEC 62386 / Acc. to IEC 61000-3-2 / Acc. to IEC 61000-3-3 / Acc. to IEC 61547
Approval marks – approval	CE / EL / VDE-ENEC / EAC / CCC / RCM / BIS
Type of protection	IP20

Logistical data

Commodity code	85044083900
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Download Data

File		
Certificates	PDF	▶ OTI DALI 25 D NFC FL EATON AM35714 070920
Certificates	PDF	▶ OTI DALI 25 D NFC FL INOTEC AM35714 070920
Certificates	PDF	▶ OT ENEC 40038085 111023
Certificates	PDF	▶ EATON(CEAG) Conformity declaration AM18335 OTi DALI 25 220-240 300 D NFC F L (EN)
CAD data 3-dim	Compressed	▶ OTI DALI D NFC FL CAD3PDF 090120
CAD data 2-dim	Compressed	▶ OTI DALI D NFC FL CAD2PDF 090120
CAD data	Compressed	▶ OTI DALI D NFC FL IGS 090120
CAD data	Compressed	▶ OTI DALI D NFC FL STEP 090120
Mandatory Publications	PDF	▶ OTI DALI D NFC FL CE 3747608 05 160523
Mandatory Publications	PDF	▶ OTI DALI D NFC FL UK DoC 4281098 210723
User instruction	PDF	▶ UI OTI DALI D NFC F L

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.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172020749	OTi DALI 25/220-240/300 D NFC F L	Shipping carton box 20 Pieces	300 x 128 x 106 mm	4.07 dm ³	123.00 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 the Tuner4TRONIC 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 25/220-240/300 D NFC F L	PRH101 -USB	▶ 6977078996938
OTi DALI 25/220-240/300 D NFC F L	CPR30 -USB	▶ 6977078996945

Disclaimer

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