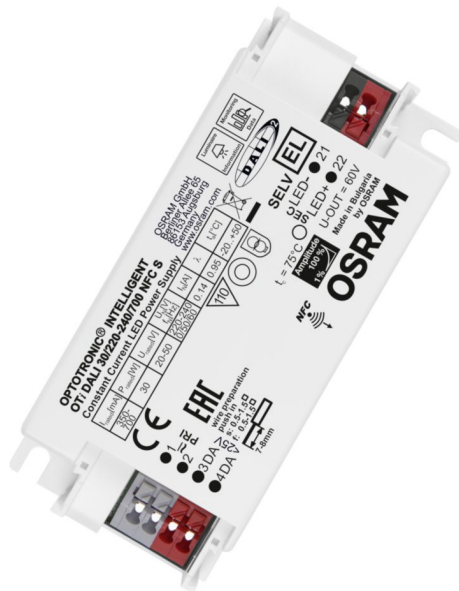# OTi DALI 30/220-240/700 NFC S

OPTOTRONIC Intelligent – DALI NFC S | Compact constant current LED driver – Dimmable

Product family features

- Supply voltage: 220…240 V
- Line frequency: 0 Hz, 50…60 Hz
- Line voltage: 198…264 V
- According to EN 61347-1, 61347-2-13, 62384
- RI suppression: to EN 55015/CISPR 15
- Immunity according to EN 61547
- Type of protection: IP20

Product family benefits

- Versatile DALI window driver due to flexible output characteristic
- Locking and unlocking of luminaire/driver data
- 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

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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

Nominal output voltage	20…50 V [1]
Input voltage DC	176…276 V
Nominal output current	350…700 mA [2]
Inrush current	< 20 A [3]
Max. ECG no. on circuit breaker 10 A (B)	20
Max. ECG no. on circuit breaker 16 A (B)	30
Nominal output power	30 W [4]
Input voltage AC	198…264 V [5]
Power factor λ	0.71C…0.97
U-OUT (working voltage)	60 V
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Mains frequency	0…60 Hz
Protective conductor current	not relevant
Nominal input voltage	220…240 V
Total harmonic distortion	< 10 % [6]
Output current tolerance	±5 %
Maximum output power	30 W
Output ripple current (100 Hz)	< 5 % [7]
Current set	DALI / NFC
Networked standby power	≤0.18 W [8]

1) Maximum 60 V
2) ±5%
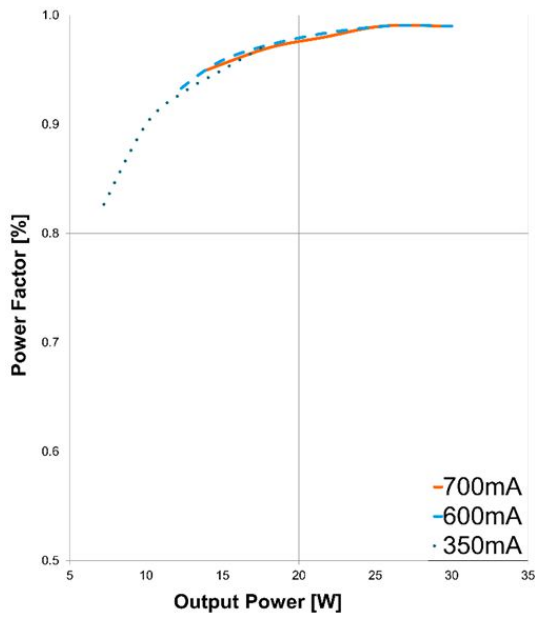3) t_{width} = 200 µs (measured at 50 % I_{peak})
4) Partial load 10…30 W
5) Permitted voltage range
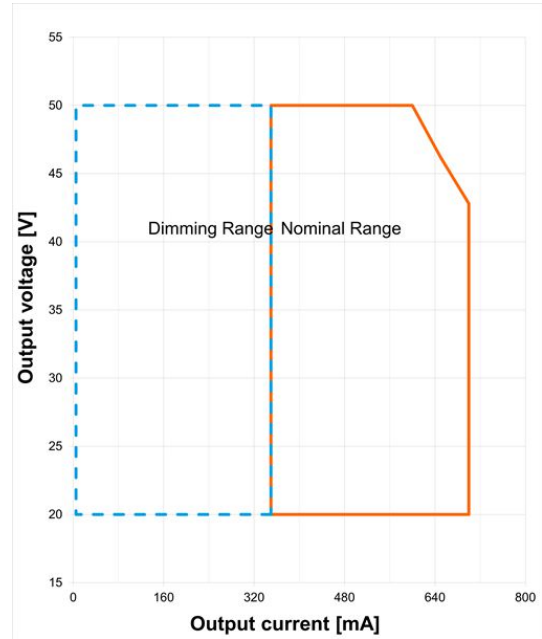6) At full load, 220…240 V, 50 Hz / see graphs
7) Ripple average at 100 Hz
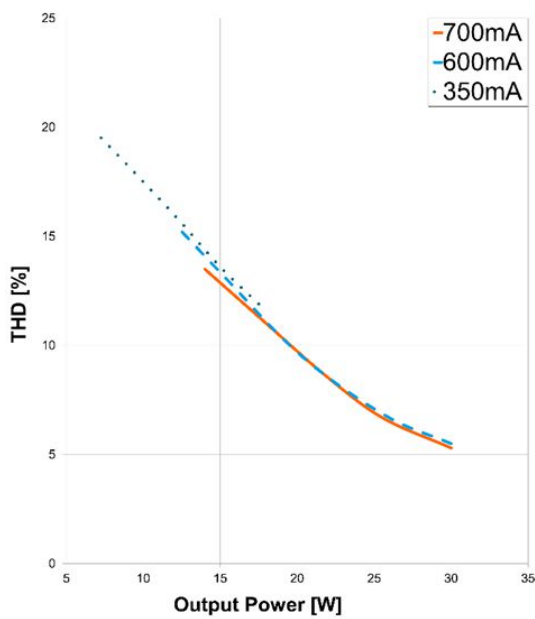8) at 230 V, 50 Hz

Typical Power Factor v Load

OTI QBM DALI 30 Typical Power Factor vs. Load

Operating Window
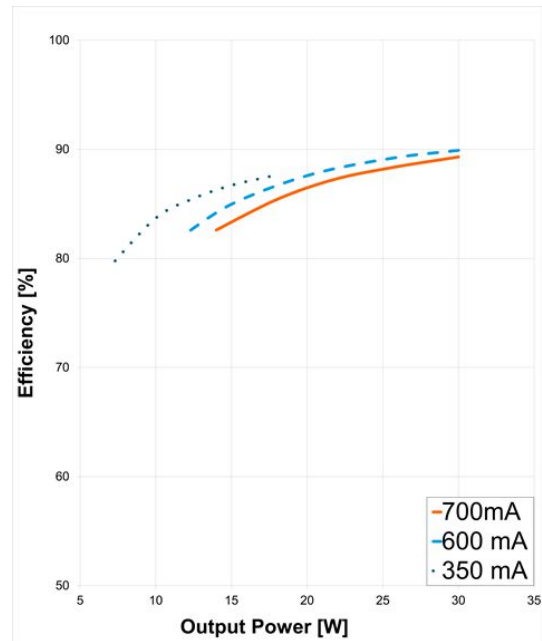
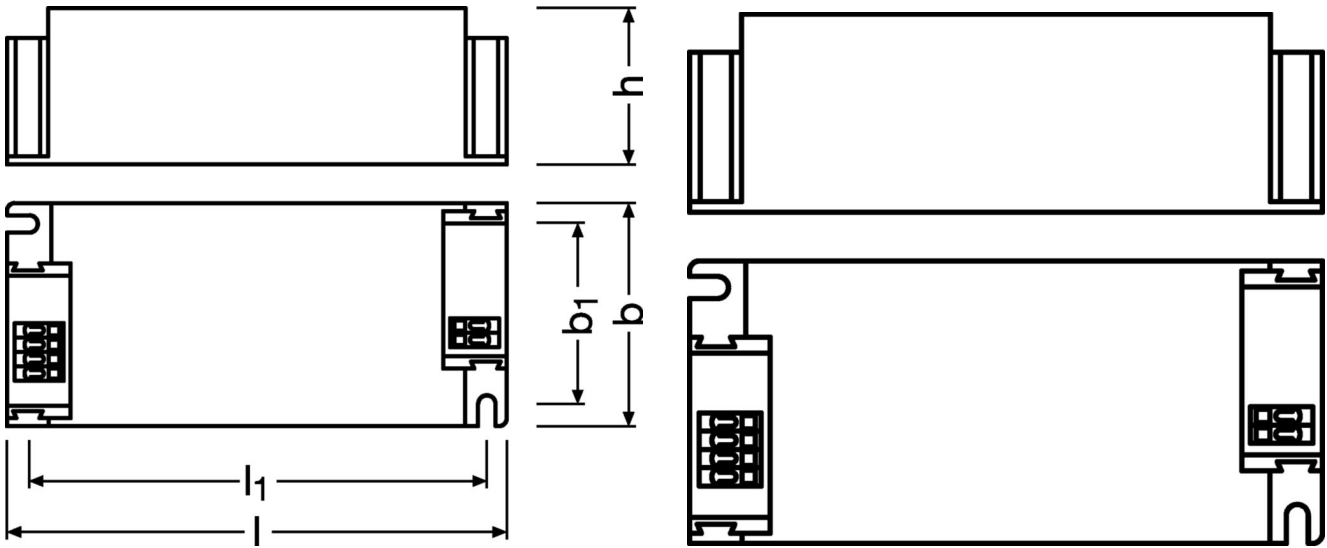

OTI QBM DALI 30 Operating Window

Typical THD v Load

OTI QBM DALI 30 Typical THD Vs Load

Typical Efficiency v Load 230 V 50 Hz

OTI QBM DALI 30 Typical Efficiency vs. Load

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Dimensions & weight

Product weight	110.00 g
Mounting hole spacing, width	34.0 mm
Mounting hole spacing, length	88.0 mm
Wire preparation length, output side	8.0…9.0 mm
Wire preparation length, input side	8.0…9.0 mm
Cable/wire length, output side	2000 mm
Cable cross-section, output side	0.2…1.5 mm² [1]
Cable cross-section, input side	0.2…1.5 mm² [1]
Length	97.0 mm
Height	29.5 mm

1) Solid or flexible leads

Colors & materials

Product color	White
Casing material	Plastic

Temperatures & operating conditions

Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	75 °C [1]
Ambient temperature range	-20…+50 °C
Temperature range at storage	-25…85 °C
Permitted rel. humidity during operation	5…85 % [2]

1) Maximum at the Tc-point
2) Maximum 56 days/year at 85 %

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

Capabilities

Max. cable length to lamp/LED module	2.0 m [1]
Dimming range	1…100 %
Dimming method	Amplitude Modulation
Dimming interface	DALI-2
Suitable for through-wiring	No
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 / II
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

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Programming

Box programming	Yes

Programmable features

Tuning Factor	Yes
Driver Guard	Yes
DALI Settings	Yes
Emergency Mode	Yes
DALI-2 Luminaire Data	Yes [1]
Configuration Lock	Yes
Soft Switch Off	Yes
Dim to Dark	Yes
TouchDIM + Sensor	No
Corridor Functionality	No

1) Acc. DALI part 251

Certificates & standards

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 / EL / DALI-2 / EAC
Type of protection	IP20

Logistical data

Commodity code	85044083900

Download Data

File			
Certificates	PDF	▶ OTI DALI 30 NFC S EATON AM31184 050320	
Certificates	PDF	▶ OTI DALI 30 NFC S INOTEC AM31184 050320	
Certificates	PDF	▶ OTI DALI NFC S RCM CS10925N 180821	
Certificates	PDF	▶ OT ENEC 40038447 270224	
CAD data 3-dim	Compressed	▶ OTI DALI NFC S CAD3PDF 140220	
CAD data 2-dim	Compressed	▶ OTI DALI NFC S CAD2PDF 140220	
CAD data	Compressed	▶ OTI DALI NFC S IGS 140220	
CAD data	Compressed	▶ OTI DALI NFC S STEP 140220	
Mandatory Publications	PDF	▶ OTI DALI NFC S I CE 4169161 110222	
Mandatory Publications	PDF	▶ OTI DALI NFC S I UK DoC 4281113 110222	
User instruction	PDF	▶ OPTOTRONIC LED Power Supply	

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
4062172110082	OTi DALI 30/220-240/700 NFC S	Shipping carton box 20 Pieces	208 x 158 x 107 mm	3.52 dm³	115.00 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 30/220-240/700 NFC S	PRH101 -USB	►6977078996938
OTi DALI 30/220-240/700 NFC S	CPR30 -USB	►6977078996945

Disclaimer

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