The trusted value of OSRAM Digital Systems continues with Inventronics Global – where experience meets innovation.

OTi DALI 150/220-240/1A0 D NFC HV L *(NEW)*

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

Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application thanks to an output power range of up to 300 W
- Supply voltage: 220…240 V
- Available with output current range: up to 1,000 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- Non-isolated drivers
- DALI-2 certified (Part -101,-102, -207, -251, -252, -253)

Product family benefits

- Fully programmable via T4T software (NFC, DALI Interface)
- Lifetime: up to 100,000 h (temperature at T_c = 75 °C, max. 10 % failure rate)
- High light quality: 1…100% amplitude dimming and <1% output ripple current
- Wide operating temperature range: -25…+55 °C
- High surge protection: up to 4 kV (L-N) / 4 kV (L/N-PE)
- Integrated inrush current limiter
- Very high efficiency (up to 96%)
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection
- Very low standby power consumption: < 0.25 W

Areas of application

- Linear lighting solutions for industry, storage areas and retail applications
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Suitable for luminaires of protection class I

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
- Advanced luminaire/driver data (power, energy, operating hours…) for analytics

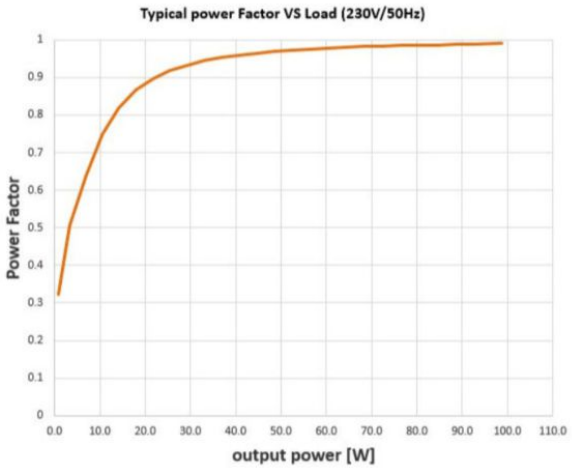
Technical data

Electrical data

Nominal input voltage	198…264 V
Mains frequency	0/50/60 Hz
Input voltage AC	198…264 V
Input voltage DC	176…276 V
Nominal input current at 230 V	0.75 A
Total harmonic distortion	< 7 % [1)]
Power factor λ	0.53C...0.99
Efficiency in full-load	96 % [2)]
Device power loss	6.5 W [3)]
Networked standby power	<0.25 W [2)]
Inrush current	44.6 A [4)]
Max. ECG no. on circuit breaker 10 A (B)	8
Max. ECG no. on circuit breaker 16 A (B)	13
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV [5)]
Protective conductor current	0.31 mA
Nominal output voltage	64…300 V
U-OUT (working voltage)	310 V
Nominal output current	250…1000 mA
Minimum output current	250 mA
Default output current	250 mA
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 1 %
Output PSTLM	≤1
Output SVM	<0.4
Nominal output power	43…150 W
Maximum output power	150 W
Galvanic isolation primary/secondary	Non isolated

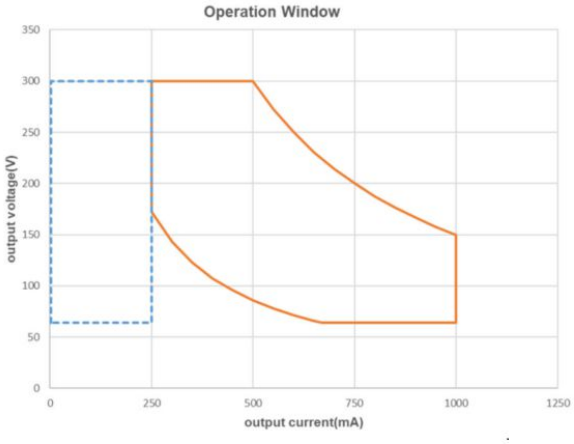
1) At full load
2) at 230 V, 50 Hz
3) maximum, full load
4) th = 214 µs
5) L/N – PE acc to EN 61547 Cluase 5.7

Typical Power Factor v Load



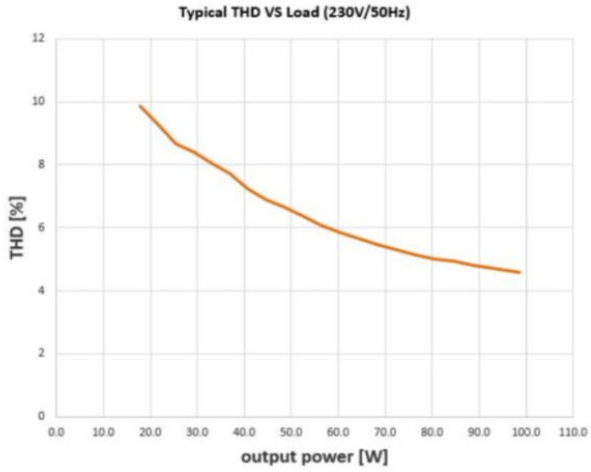
Typical Power Factor vs. Load-OTI DALI 150 D NFC HV L

Operating Window



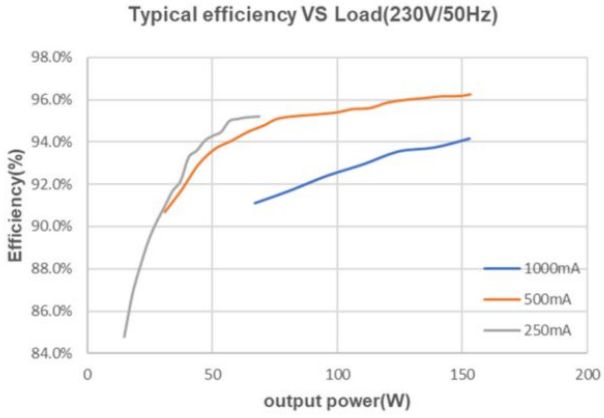
Operation Window-OTI DALI 150 D NFC HV L

Typical THD v Load



Typical THD vs Load-OTI DALI 150 D NFC HV L

Typical Efficiency v Load 230 V 50 Hz



Typical Efficiency Vs. Load-OTI DALI 150 D NFC HV L

Dimensions & weight

Product weight	280.00 g
Length	360.0 mm
Width	30.0 mm
Height	21.0 mm
Mounting hole spacing, length	350.0 mm
Cable cross-section, input side	0.5…1.5 mm²
Cable cross-section, output side	0.5…1.5 mm²
Wire preparation length, input side	8.0…9.0 mm
Wire preparation length, output side	8.0…9.0 mm

Colors & materials

Casing material	Metal
Product color	White

Temperatures & operating conditions

Ambient temperature range	-25…+55 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-25…85 °C
Permitted rel. humidity during operation	5…85 % [1)]

1) Non-condensing

Lifespan

ECG lifetime	50000 h / 100000 h [1)]

1) T_c = 85°C, 0.2% / 1,000 h failure rate / T_c = 75°C, 0.1% / 1,000 h failure rate / 24H ON

Additional product data

Encapsulated	No

Capabilities

Programming interface	DALI, NFC
Control interface	DALI
Dimmable	Yes
Dimming interface	DALI-2 / Corridor / Touch DIM / Touch DIM Sensor
Dimming range	1…100 %
Dimming method	Full analogue dimming
DALI-2 Diagnostic Data	Yes
DALI-2 Energy Data	Yes
Constant lumen function	Programmable
Max. cable length to lamp/LED module	2.0 m [1)]
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	Yes
EL EOFi – default value	0.15
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Suitable for through-wiring	No
Number of channels	1
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
Intended for no-load operation	No
No-load proof	Yes

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

Programming

Programming device	DALI magic / NFC Scanner
Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes
Box programming	Yes

Programmable features

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

Certificates & standards

Approval marks – approval	CE / ENEC / CCC / EAC / BIS / RCM
Standards	IEC 61347-1 / IEC 61374-2-13 / IEC 62384 / IEC 62386 / IEC 61000-3-2 / IEC 61000-3-3 / IEC 61547
Type of protection	IP20

Logistical data

Commodity code	85044095900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	20-03-2025
Primary Article Identifier	4055462433589
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

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.

Download Data

File		
Certificates	PDF	►VDE ENEC 40058248 110325
Certificates	PDF	►OTI DALI 150 D NFC HV L CB-DE1-68292-B2 180124
Certificates	PDF	►OTI DALI 150 D NFC HV L CCC 2024171002005216
Certificates	PDF	►OTI DALI 150 D NFC HV L CS10234N 280224
CAD data 3-dim	Compressed	►OTI DALI 150 D NFC HV L CAD3PDF 200325
Product Datasheet	PDF	►OTI DALI 150 D NFC HV L DS 0124
CAD data	Compressed	►OTI DALI 150 D NFC HV L STEP 200325
Mandatory Publications	PDF	►OTI DALI 150 D NFC HV L CE 4528889 00 220125
User instruction	PDF	►UI OTI DALI 150 D NFC HV L

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4055462433589	OTi DALI 150/220-240/1A0 D NFC HV L	Shipping carton box 20 Pieces	385 x 160 x 100 mm	6.16 dm³	288.70 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 Inventronics driver can be configured using the Tuner4TRONIC software. This requires registering on www.inventronicsglobal.com/ds 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, Inventronics can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, Inventronics 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.

Disclaimer

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