

## OTi DALI 35/220-240/700 NFC TW L

OPTOTRONIC Intelligent Tunable White – DALI (SELV) | 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
- Usable as DT6 (2-channel) or DT8 (Tunable White) driver
- Available with output current range: up to 1,400 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- SELV driver

### Product family benefits

- Control of standard white or Tunable White light acc. DALI device type 8 (DT8)
- TouchDIM® Tunable White integrated for use without additional LMS
- Fully programmable via T4T software (NFC, DALI Interface)
- Lifetime: up to 100,000 h (temperature at  $T_c = 65\text{ °C}$ , max. 10 % failure rate)
- High-quality dimming of 1...100 %
- High 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

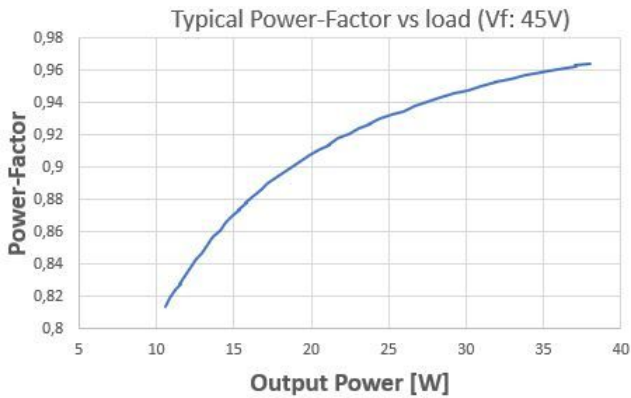
- For Tunable White as well as for 2-channel use (e.g. direct/indirect lighting)
- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Suitable for luminaires of protection class I
- Perfect system match with PrevaLED Linear Tunable White

## Technical data

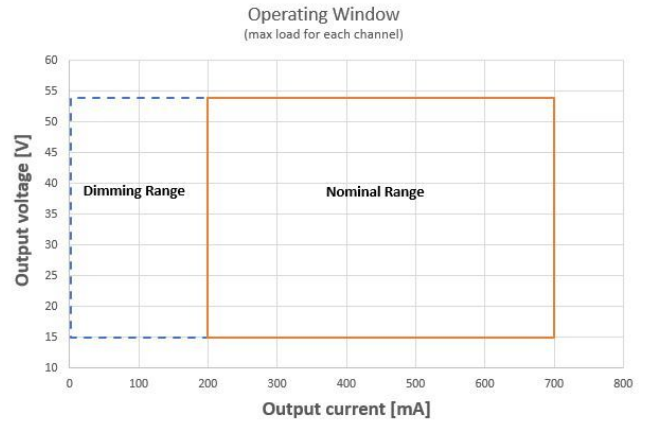
### Electrical data

Device power loss	3.0 W
Nominal output voltage	15...54 V
Input voltage DC	176...276 V
Nominal output current	200...700 mA
Inrush current	21 A
Max. ECG no. on circuit breaker 10 A (B)	19
Max. ECG no. on circuit breaker 16 A (B)	30
Nominal output power	4...38 W
Input voltage AC	198...264 V
Power factor $\lambda$	0.73C...0.98
U-OUT (working voltage)	< 60 V
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Mains frequency	0/50/60 Hz
Nominal input voltage	220...240 V
Total harmonic distortion	< 15 %
Output current tolerance	$\pm 3$ %
Maximum output power	38 W
Galvanic isolation	SELV
Output ripple current (100 Hz)	< 1 %
Current set	DALI / NFC / Programmable

## Typical Power Factor v Load



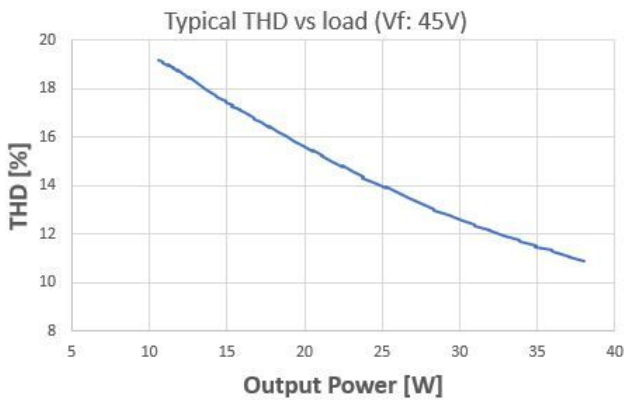
## Operating Window



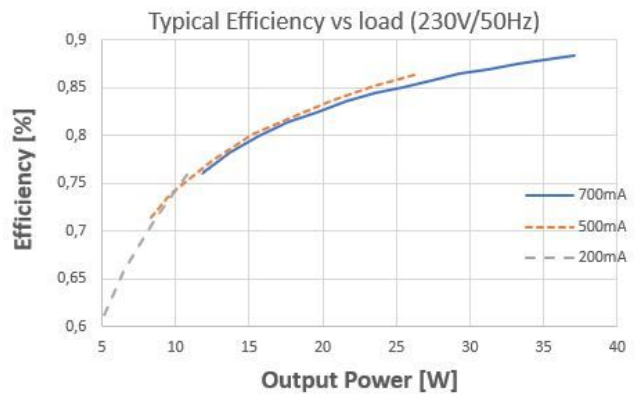
OTI DALI 35 NFC TW L Typical Power Factor vs. Load

OTI DALI 35 NFC TW L Operating window

## Typical THD v Load



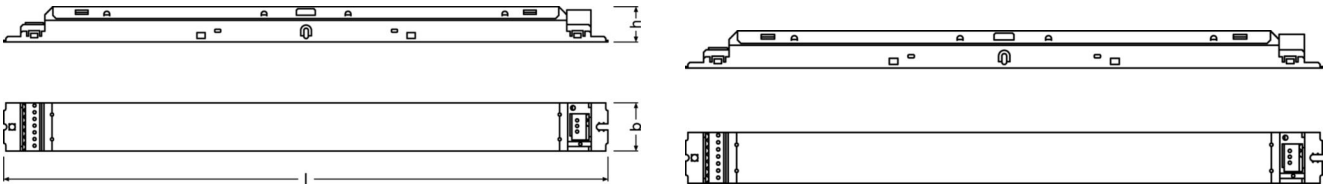
## Typical Efficiency v Load 230 V 50 Hz



OTI DALI 35 NFC TW L Typical THD Vs Load

OTI DALI 35 NFC TW L Typical Efficiency vs. Load (230 V / 50 Hz)

## Dimensions & weight



<b>Product weight</b>	300.00 g
<b>Mounting hole spacing, length</b>	350.0 mm
<b>Wire preparation length, output side</b>	8.5...9.5 mm
<b>Wire preparation length, input side</b>	8.5...9.5 mm
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup>
<b>Cable cross-section, input side</b>	0.5...1.5 mm <sup>2</sup>
<b>Length</b>	360.0 mm
<b>Height</b>	21.0 mm

## Colors & materials

<b>Casing material</b>	Metal
------------------------	-------

## Temperatures & operating conditions

<b>Max.housing temperature in case of fault</b>	110 °C
<b>Maximum temperature at tc test point</b>	78 °C
<b>Ambient temperature range</b>	-25...+60 °C
<b>Temperature range at storage</b>	-40...+85 °C
<b>Permitted rel. humidity during operation</b>	5...85 % <sup>1)</sup>

1) Maximum 56 days/year at 85 %

## Lifespan

ECG lifetime	50000 h / 100000 h
--------------	--------------------

## Additional product data

Encapsulated	No
--------------	----

## Capabilities

Max. cable length to lamp/LED module	2.0 m <sup>1)</sup>
Dimming range	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
-----------------	-----

## Programmable features

Tuning Factor	Yes
Driver Guard	Yes
DALI Settings	Yes
Emergency Mode	Yes
DALI-2 Luminaire Data	No
Soft Switch Off	Yes
Dim to Dark	Yes
TouchDIM + Sensor	Yes
Corridor Functionality	Yes
Tunable White CCT	Yes

## Certificates & standards

Standards	Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / 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
----------------	-------------

### Additional product information

- Electrical connections between the two output channels are not allowed.



## Download Data

File		
Certificates	PDF	▶ OTI DALI 35 NFC TW L EATON AM3294 220620
Certificates	PDF	▶ OTI DALI 35 NFC TW L INOTEC AM32494 220620
Certificates	PDF	▶ OT ENEC 40038447 270224
CAD data 3-dim	Compressed	▶ OTI DALI NFC TW L CAD3PDF 020320
CAD data 2-dim	Compressed	▶ OTI DALI NFC TW L CAD2PDF 020320
CAD data	Compressed	▶ OTI DALI NFC TW L IGS 020320
CAD data	Compressed	▶ OTI DALI NFC TW L STEP 020320
Mandatory Publications	PDF	▶ OTi DALI NFC TW L CE 4222044 161023
Mandatory Publications	PDF	▶ OTI DALI NFC TW L UK DoC 4281073 040923
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
4062172092968	OTi DALI 35/220-240/700 NFC TW L	Shipping carton box 20 Pieces	385 x 160 x 100 mm	6.16 dm <sup>3</sup>	174.00 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

## Accessories Optional

Product description	Accessory name	Accessory code
OTi DALI 35/220-240/700 NFC TW L	PRH101 -USB	▶ 6977078996938
OTi DALI 35/220-240/700 NFC TW L	CPR30 -USB	▶ 6977078996945

## Disclaimer

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