

OTi DALI 35/220...240/700 NFC TW L

OPTOTRONIC Intelligent Tunable White – DALI (SELV) | Linear constant current LED driver – Dimmable



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

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 $T_c = 65\text{ }^\circ\text{C}$, max. 10 % failure rate)
- High-quality dimming of 1...100 % (amplitude and/or PWM selectable by software)
- High quality of light thanks to <1% output ripple current
- Very high efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection



Product datasheet

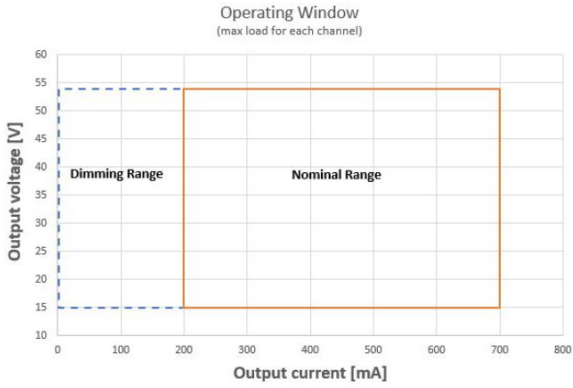
Product family features

- 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

Technical data

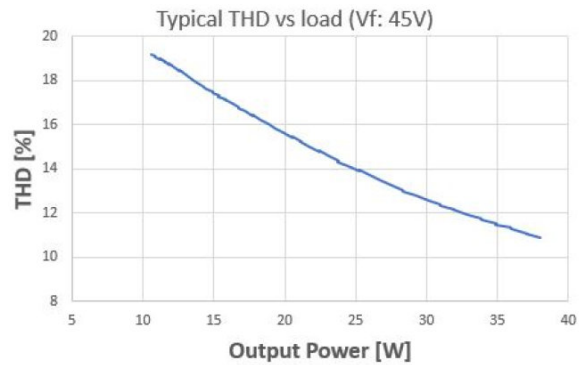
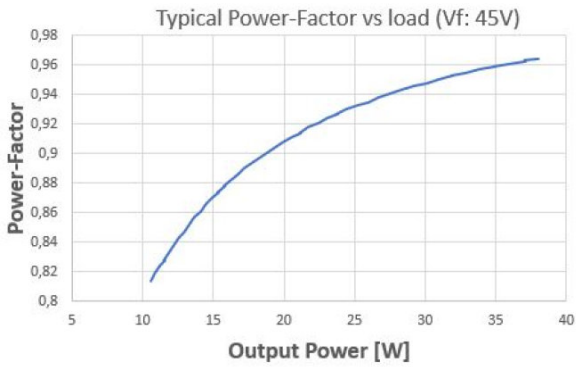
Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Current set	DALI / NFC / Programmable
Total harmonic distortion	< 15 %
Power factor λ	> 0.95
ECG efficiency	up to 88 %
Device power loss	3.0 W
Power loss in stand-by mode	<0.2 W
Inrush current	21 A
Max. ECG no. on circuit breaker 10 A (B)	19
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	30
Max. ECG no. on circuit breaker 16 A (C)	-
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	15...54 V
U-OUT (working voltage)	< 60 V
Nominal output current	200...700 mA
Default output current	200 mA
Output current tolerance	± 3 %
Output ripple current (100 Hz)	< 1 %
Output PSTLM	≤ 1
Output SVM	≤ 0.4
Nominal output power	4...38 W
Galvanic isolation	SELV



Operating Window

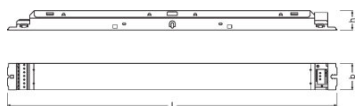
Typical Efficiency v Load 230 V 50 Hz



Typical Power Factor v Load

Typical THD v Load

Dimensions & weight



Mounting hole spacing, length	350.0 mm
Product weight	300.00 g
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	8.5...9.5 mm
Wire preparation length, output side	8.5...9.5 mm
Length	360.0 mm
Width	30.0 mm
Height	21.0 mm

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Ambient temperature range	-25...+60 °C
Maximum temperature at tc test point	78 °C
Max.housing temperature in case of fault	110 °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
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Additional product data

Encapsulated	No
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Capabilities

Programming interface	DALI, NFC
Dimmable	Yes
Dimming interface	DALI / Touch DIM / Touch DIM Sensor
Dimming range	1...100 %
Dimming method	DALI / TouchDIM / TouchDIM Sensor
Overheating protection	Yes
Overload protection	Yes
Short-circuit protection	Yes
No-load proof	Yes
Max. cable length to lamp/LED module	2.0 m
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	Yes
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Constant lumen function	Yes
Control interface	-
Detection angle (Light sensor)	-
Detection angle (PIR)	-
Number of channels	2

Programming

Tuner4TRONIC	Yes
Tuner4TRONIC Field App	Yes
Programming device	DALI magic / Feig-Reader / T4T-field-APP

Programmable features

Operating Current	Yes
Constant Lumen	Yes
Lamp Operating Time	Yes
Thermal Protection	Yes
Driver Guard	Yes
DALI Settings	Yes
Emergency Mode	Yes
DALI-2 Luminaire Data	No
Configuration Lock	Yes
Soft Switch Off	Yes
Dim to Dark	Yes

Product datasheet

TouchDIM + Sensor	Yes
Corridor Functionality	Yes
Tunable White CCT	Yes
Tunable White High precision	Yes












Certificates & standards

Approval marks – approval	CE / EL / VDE-ENEC / VDE-EMC / CCC / RCM / BIS
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
Type of protection	IP20

Logistical data

Commodity code	850440829000
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Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet OTI DALI NFC TW L DS 230920 (EN)
	Certificates OTI DALI 35 NFC TW L EATON AM3294 220620
	Certificates OTI DALI 35 NFC TW L INOTEC AM32494 220620
	Certificates OT ENEC 40038447 031120
	Certificates OT EMC 40044675 080920
	Declarations of conformity OTi DALI NFC TW L CE 4222044 200820
	CAD data OTI DALI NFC TW L IGS 020320
	CAD data OTI DALI NFC TW L STEP 020320
	CAD Data 2-dim OTI DALI NFC TW L CAD2PDF 020320
	CAD data 3-dim OTI DALI NFC TW L CAD3PDF 020320

Logistical Data

Product datasheet

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	385 mm x 160 mm x 100 mm	6.16 dm ³	6171.00 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.

Disclaimer

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