### OTi DALI 90/220...240/700 D LT2 L

OPTOTRONIC Intelligent - 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 90 W due to flexible output characteristic
- Supply voltage: 220...240 V
- Available with output current range: up to 1,050 mA
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)
- DALI-2 certified (Part -101,-102 and -207)

#### Product family benefits

- Fully programmable via software (DALI Interface)
- Flexible current setting (LEDset2)
- Lifetime: up to 100,000 h (temperature at T = 65 °C, max. 10 % failure rate)
- High-quality dimming of 1...100 % by amplitude dimming (except 80 W versions)
- High quality of light thanks to <1% output ripple current
- Very high efficiency
- Very low standby power consumption: < 0.25 W
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Specifications are subject to changes without notice.

#### 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

#### 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

#### **Technical data**

#### Electrical data

Nominal input voltage	220240 V			
Mains frequency	0/50/60 Hz			
Input voltage AC	198264 V <sup>1)</sup>			
Input voltage DC	176276 V			
Current set	DALI / LEDset / Programmable			
Total harmonic distortion	< 10 %			
Power factor λ	0.64C0.99 <sup>2)</sup>			
Efficiency in full-load	93 % <sup>3)</sup>			
Device power loss	9.0 W <sup>4)</sup>			
Protective conductor current	<0.5 mA			
Inrush current	25 A			
Max. ECG no. on circuit breaker 10 A (B)	15			
Max. ECG no. on circuit breaker 16 A (B)	24			
Surge capability (L/N-Ground)	2 kV			
Surge capability (L-N)	1 kV			
Nominal output voltage	54240 V <sup>5)</sup>			
U-OUT (working voltage)	< 250 V			
Nominal output current	250700 mA			
Default output current	125 mA <sup>6)</sup>			
Output current tolerance	±3 % <sup>7)</sup>			
Output current LEDset open	125 mA			
Output current LEDset shorted	250 mA			
Output ripple current (100 Hz)	< 1 %			
Output PSTLM	≤1			
Output SVM	≤0.4			
Nominal output power	13.590 W			
Maximum output power	90 W			
Galvanic isolation	Non isolated			

1) Permitted voltage range

2) Full load at 230 V

3) at 230 V, 50 Hz

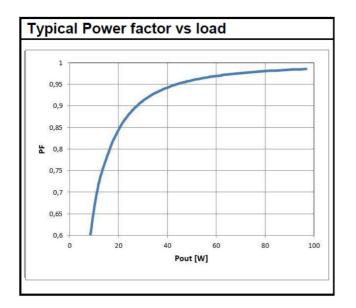
4) Maximum

5) Maximum 250 V

6) LEDset deactivated

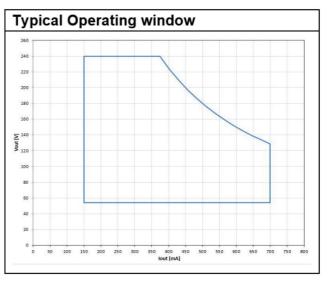
7) When use DALI

#### Typical Power Factor v Load



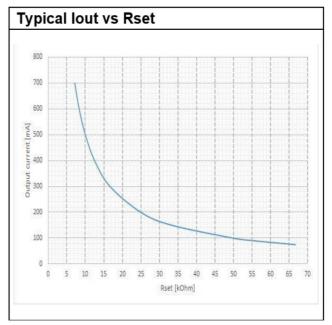
OTI DALI 90/220-240/700 D LT2 L Typical Power Factor vs. Load

#### **Operating Window**



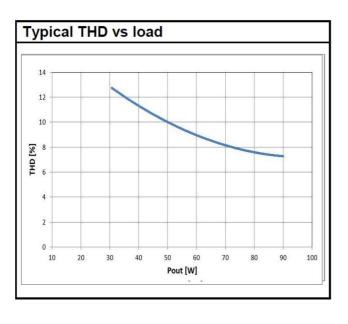
#### OTI DALI 90/220-240/700 D LT2 L Operating Window

#### Typical lout v Rset LEDset2 mode



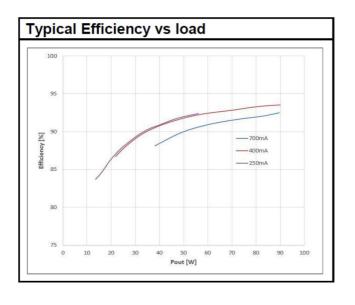
OTI DALI 90/220-240/700 D LT2 L Typical lout vs Rset (LEDset2 mode)

### Typical THD v Load



OTI DALI 90/220-240/700 D LT2 L Typical THD Vs Load

Typical Efficiency v Load 230 V 50 Hz

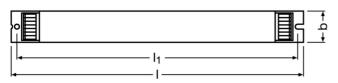


OTI DALI 90/220-240/700 D LT2 L Typical Efficiency vs. Load (230 V / 50 Hz)

Specifications are subject to changes without notice.

#### **Dimensions & weight**





Length	280.0 mm	
Width	30.0 mm	
Height	21.0 mm	
Mounting hole spacing, length	270.0 mm	
Cable cross-section, input side	0.51.5 mm <sup>2</sup>	
Cable cross-section, output side	0.51.5 mm <sup>2</sup>	
Wire preparation length, input side	8.59.5 mm	
Wire preparation length, output side	8.59.5 mm	
Product weight	205.00 g	

#### **Colors & materials**

Casing material	Metal
- Caonig material	motal

#### **Temperatures & operating conditions**

Ambient temperature range	-25+50 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-2585 °C
Permitted rel. humidity during operation	585 % <sup>1)</sup>

1) Maximum 56 days/year at 85 %

#### Lifespan

ECG lifetime

50000 h / 100000 h <sup>1)</sup>

1) At maximum T =  $75^{\circ}$ C / 10% failure rate / At T =  $65^{\circ}$ C / 10% failure rate

#### Capabilities

Programming interface	DALI, LEDset			
Control interface	DALI			
Dimmable	Yes			
Dimming interface	DALI-2 / Touch DIM / Touch DIM Sensor			
Dimming range	1100 % <sup>1)</sup>			
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 <sup>2)</sup>			
Suitable for fixtures with prot. class	1			
Type of connection, input side	Push terminal			
Type of connection, output side	Push terminal			
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) For maximum nominal output current

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

#### Programming

Programming device	DALI magic
Tuner4TRONIC Field App	Yes

#### Programmable features

Emergency Mode	Yes	
DALI Settings	Yes	
DALI-2 Luminaire Data	Yes	
TouchDIM + Sensor	Yes	
Corridor Functionality	Yes	
Emergency Mode	Yes	

#### **Certificates & standards**

Approval marks – approval	CE / EL / VDE-ENEC / VDE-EMC / EAC / CCC / BIS / RCM		
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		
Type of protection	IP20		
Protection class	1		

#### Logistical data

Commodity code 85044083900
----------------------------

#### **Environmental information**

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)			
Date of Declaration 22-03-2024			
Primary Article Identifier	4052899494244   4062172082242		
Declaration No. in SCIP database	In work		

#### **Download Data**

File				
Certificates	PDF	►OTI DALI OT FIT D LT2 L CB DE1 58970 040320		
Certificates	PDF	►OT ENEC 40038085 010322		
Certificates	PDF	►LED drivers EMC 40011668 300922		
CAD data 3-dim	Compressed	OTI DALI D LT2 L CAD3PDF 270220		
CAD data 2-dim	Compressed	OTI DALI D LT2 L CAD2PDF 270220		
CAD data	Compressed	►OTI DALI D LT2 L IGS 270220		
CAD data	Compressed	►OTI DALI D LT2 L STEP 270220		
Declarations of conformity	PDF	EATON(CEAG)-Conformity declaration AN00951 OTI DALI 90/220-240/700 D LT2 L		
Declarations of conformity	PDF	►INOTEC-Conformity declaration AN00951 OTI DALI 90/220- 240/700 D LT2 L		
Declarations of conformity	PDF	►727247_EC OTi		
Declarations of conformity	PDF	► OTi DALI D LT2 L UK DoC 4281086 180221		
Declarations of conformity	PDF	►OTI DALI D LT2 L CE 3667898 210921		
Declarations of conformity	PDF	EATON(CEAG)-Conformity declaration AM00140_OTiDALI90_220_240_700_D_LT2_L		
Declarations of conformity	PDF	INOTEC- Conformity declaration AM00140_OTiDALI90_220_240_700_D_LT2_L		
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
4052899494244	OTi DALI 90/220240/700 D LT2 L	Shipping carton box 20 Pieces	305 x 161 x 104 mm	5.11 dm³	4252.00 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.

#### Disclaimer

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