

## OTi DALI 210/220-240/24 1-4 CH

CV PROTECTED Power supplies with DALI



### Product family features

- 1 to 4 DALI addressable channels
- LED driver whose output power can be shared arbitrarily among the 1 or 4 channels
- AstroDim functionality
- Dimming range: 0/0, 1...100 %
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- High level surge protection: up to 6 kV (L-N), 8 kV (L/N-PE)
- Inrush current limiter circuit

### Product family benefits

- Long lasting and high reliability
- From 1 to 4 channels to arbitrarily distribute the power
- Suitable for installation under sunlight
- IP66/IP67 Salt mist resistant and DC functionality
- AstroDim functionality for automatic dimming and turn on/off

## Areas of application

- Public squares and architecture lighting
- In building facades, luminous signage
- Suitable for indoor and outdoor SELV installations
- Suitable for use in luminaires of protection class I

## Technical data

### Electrical data

Nominal input voltage	230...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V <sup>1)</sup>
Total harmonic distortion	< 5 %
Power factor $\lambda$	> 0.95
Efficiency in full-load	93% <sup>2)</sup>
Device power loss	18.4 W
Inrush current	3.7 A
Max. ECG no. on circuit breaker 10 A (B)	7
Max. ECG no. on circuit breaker 16 A (B)	11
Surge capability (L/N-Ground)	8 kV
Surge capability (L-N)	6 kV
Nominal output voltage	24.7 V <sup>3)</sup>
U-OUT (working voltage)	24.7 V
Nominal output power	210 W <sup>4)</sup>
Maximum output power	210 W <sup>5)</sup>
Galvanic isolation	SELV

1) with external fuse

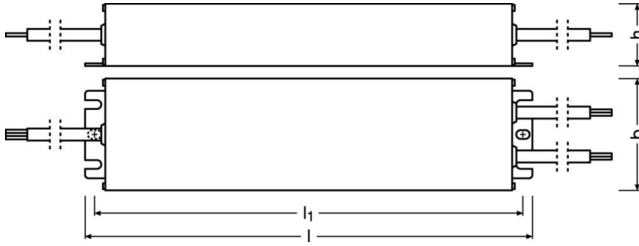
2) at 230 V, 50 Hz

3) DC voltage

4) Lamp failure detection: minimum load per channel that doesn't trigger open circuit detection is 30 W

5) at steady state

## Dimensions & weight



<b>Length</b>	330.0 mm
<b>Width</b>	69.0 mm
<b>Height</b>	37.0 mm
<b>Mounting hole spacing, length</b>	326.0 mm
<b>Mounting hole spacing, width</b>	320.0 mm
<b>Cable cross-section, input side</b>	1.0 mm <sup>2</sup>
<b>Cable cross-section, output side</b>	1.5 mm <sup>2</sup>
<b>Wire preparation length, input side</b>	90 mm
<b>Wire preparation length, output side</b>	90 mm
<b>Product weight</b>	1415.00 g

## Colors & materials

<b>Casing material</b>	Aluminium
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## Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+60 °C
<b>Maximum temperature at tc test point</b>	85 °C
<b>Max.housing temperature in case of fault</b>	110 °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
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## Capabilities

Dimmable	Yes
Dimming interface	DALI-2
Dimming range	0.1...100 %
Dimming method	Pulse Width Modulation
Suitable for fixtures with prot. class	I
Type of connection, input side	Wires
Type of connection, output side	Wires
Number of channels	4
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
Intended for no-load operation	No
No-load proof	Yes

## Certificates & standards

<b>Approval marks – approval</b>	BIS / CCC / CE / EAC / ENEC 10 / RCM / VDE / VDE-EMC
<b>Standards</b>	Acc. to EN 61347-2-13 / Acc. to EN 61547 / Acc. to EN 55015 / Acc. to EN 61000-3-2 / Acc. to EN 61000-3-3 / Acc. to EN 61347-1 / Acc. to EN 62493
<b>Type of protection</b>	IP66/IP67
<b>Protection class</b>	1

## Logistical data

<b>Commodity code</b>	85044083900
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## Environmental information

<b>Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)</b>	
<b>Date of Declaration</b>	13-05-2024
<b>Primary Article Identifier</b>	4062172032087
<b>Declaration No. in SCIP database</b>	In work

## Download Data

File		
Brochures	PDF	▶ OPTOTRONIC constant-voltage LED power supplies and controls (EN)
Product Datasheet	PDF	▶ OTi DALI 210 1-4CH Technical Datasheet (EN)
Certificates	PDF	▶ CB TEST CERTIFICATE DE1-62077
Certificates	PDF	▶ OT VDE ENEC 40050684 290923
Certificates	PDF	▶ OTi DALI 210 CB DE1 63487 280420
Certificates	PDF	▶ OTi DALI 210 1 4 CH IEC DE1 63487 A1 220920
Certificates	PDF	▶ VDE ENEC Certificate 40043863
Certificates	PDF	▶ OT EMC 40038482 290922
CAD data 3-dim	Compressed	▶ 3D STEP file
CAD data 3-dim	Compressed	▶ OTi DALI 210 220-240 24 1-4 CH - 3D stp file
Declarations of conformity	PDF	▶ OTi DALI 210 24 CE 3772470 03 280723
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
4062172032087	OTi DALI 210/220-240/24 1-4 CH	Shipping carton box 6 Pieces	380 x 262 x 201 mm	20.01 dm <sup>3</sup>	9195.00 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.



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