

OTi DALI 50/220...240/24 1...4 CH

CV Power supplies with DALI



Product family features

- Dimmable via Touch DIM (if supported)
- LED driver whose output power can be shared arbitrarily among the 2 or 4 channels
- Dimming range: 0.1...100 %
- Line frequency: 0 Hz | 50 Hz | 60 Hz

Product family benefits

- Intelligent power matching thanks to Smart power supply
- Slim form factor for mounting on the cove or in linear luminaires
- Reduced flicker thanks to high PWM frequency
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Available as single-channel or multi-channel with DT6 and DT8 in one device
- DALI message detection "LED Module failure"
- IP rating: IP20

Areas of application

- Cove lighting, wall washer, corridor, handrail, luminous ceilings
- Suitable for use in luminaires of protection class I and II

Product datasheet

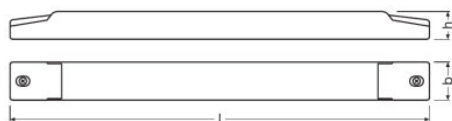
Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Total harmonic distortion	< 5 %
Power factor λ	> 0.95
Device power loss	5.0 W
Inrush current	43 A
Max. ECG no. on circuit breaker 10 A (B)	9
Max. ECG no. on circuit breaker 16 A (B)	15
Max. ECG no. on circuit breaker 25 A (B)	27
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	24 V ¹⁾
U-OUT (working voltage)	24.2 V
Nominal output power	50 W
Galvanic isolation	SELV
Galvanic isolation primary/secondary	3.75 kV
Input voltage DC	176...276 V

¹⁾ DC voltage

Dimensions & weight



Mounting hole spacing, length	300.6 mm
Product weight	191.00 g
Cable cross-section, input side	0.5...2.5 mm ²
Cable cross-section, output side	0.2...1.5 mm ²
Wire preparation length, input side	6.0 mm

Product datasheet

Wire preparation length, output side	5.0 mm
Length	346.0 mm
Width	32.0 mm
Height	22.0 mm

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	70 °C
Max.housing temperature in case of fault	115 °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 ¹⁾
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¹⁾ At $T_{case} = 70^{\circ}C$ at T_c point / 10% failure rate

Additional product data

Product remark	Emergency lighting: EL sign
Successor EAN	4062172177900

Capabilities

Dimmable	Yes
Dimming interface	DALI-2
Dimming range	0...100 %
Dimming method	Pulse Width Modulation
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Suitable for fixtures with prot. class	I / II
Type of connection, output side	Screw terminal
Number of channels	4

Certificates & standards

Approval marks – approval	CE / ENEC 10 / VDE / VDE-EMC / RCM / EAC / CCC / BIS / EL
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Product datasheet

Standards	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 62384/Acc. to EN 60598-2-22/Acc. to EN 62386/Acc. to EN 55015
Protection class	II
Type of protection	IP20

Logistical data

Commodity code	850440829000
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Environmental information

Date of Declaration	23-12-2021
Primary Article Identifier	4052899452916
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	7269bb1b-bb0c-4dc9-a4ae-d1b6a4b41b4b


Equipment / Accessories

- Suitable for 24 V LED modules

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet OTi DALI 80220-24024 1-4 CH OTi DALI 50220-24024 1-4 CH (EN)
	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)
	Brochures 730792_Light is universal - Easy installation of efficient complete systems (DE)
	Brochures 730791_Light is universal - Easy installation of efficient complete systems (EN)
	Certificates OT ENEC 40050684 060421
	Certificates OTi DALI 50 80 CB DE1 63488 280420
	Certificates 729875_OTi DALI 50220-24024 1-4 CH EATON Conformity
	Certificates 729877_OTi DALI 50220-24024 1-4 CH Inotec Conformity

Product datasheet

	Certificates VDE ENEC Certificate 40043863
	Certificates OT EMC 40038482 220421
	Certificates CB Certificate
	Certificates CCC certificate 2017011002969504
	Certificates Certificate of Approval NSW27729
	Certificates VDE ENEC Certificate 40043863 appendix
	Declarations of conformity 729793_EC OTI DALI 50,8024
	CAD data 3-dim CAD data OTI DALI 5080

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
4052899452916	OTi DALI 50/220...240/24 1...4 CH	Shipping carton box 20	370 mm x 170 mm x 113 mm	7.11 dm ³	3998.00 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.