

CV PROTECTED Power supplies with DALI



Areas of application

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

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

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 datasheet

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ	ECG efficiency
OTi DALI 210/220-240/24 1-4 CH	230...240 V	50/60 Hz	198...264 V	< 5 %	> 0.95	93 %
Product description	Device power loss	Power loss in stand-by mode	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 16 A (B)
OTi DALI 210/220-240/24 1-4 CH	18.4 W	<0.5 W	3.7 A	7	7	11
Product description	Max. ECG no. on circuit breaker 16 A (C)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)		
OTi DALI 210/220-240/24 1-4 CH	11	17	8 kV	6 kV		
Product description	Nominal output voltage	U-OUT (working voltage)	Nominal output power	Galvanic isolation		
OTi DALI 210/220-240/24 1-4 CH	24.7 V ¹⁾	24.7 V	210 W ²⁾	SELV		
Product description	Galvanic isolation primary/secondary	Output ripple Voltage (100 Hz)	Input voltage DC			
OTi DALI 210/220-240/24 1-4 CH	3 kV	< 5 %	176...276 V ³⁾			
Product description	Output PWM frequency					
OTi DALI 210/220-240/24 1-4 CH	1k Hz					

¹⁾ DC voltage

²⁾ Lamp failure detection: minimum load per channel that doesn't trigger open circuit detection is 30 W

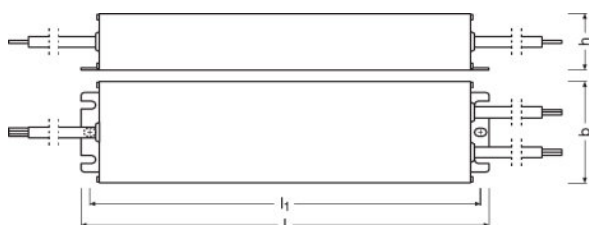
³⁾ with external fuse

Dimensions & weight

Product description	Mounting hole spacing, length	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
OTi DALI 210/220-240/24 1-4 CH	320.0 mm	1415.00 g	1.0 mm ²	1.5 mm ²	90 mm
Product description	Wire preparation length, output side	Mounting hole spacing, width	Length	Width	Height
OTi DALI 210/220-240/24 1-4 CH	90 mm	320.0 mm	330.0 mm	69.0 mm	37.0 mm

Product family datasheet

Product line drawing



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

Colors & materials

Product description	Casing material
OTi DALI 210/220-240/24 1-4 CH	Aluminium

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
OTi DALI 210/220-240/24 1-4 CH	-20...+60 °C	85 °C	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation
OTi DALI 210/220-240/24 1-4 CH	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OTi DALI 210/220-240/24 1-4 CH	50000 h

Product family datasheet

Additional product data

Product description	Encapsulated
OTi DALI 210/220-240/24 1-4 CH	-

Capabilities

Product description	Dimmable	Dimming interface	Dimming range	Dimming method
OTi DALI 210/220-240/24 1-4 CH	Yes	DALI	0...100 %	Pulse Width Modulation

Product description	Overheating protection	Overload protection	Short-circuit protection	No-load proof
OTi DALI 210/220-240/24 1-4 CH	Automatic reversible	Automatic reversible	Automatic reversible	Yes

Product description	Suitable for fixtures with prot. class	Type of connection, output side	Number of channels
OTi DALI 210/220-240/24 1-4 CH	I	Wires	4

Certificates & standards

Product description	Approval marks – approval
OTi DALI 210/220-240/24 1-4 CH	BIS / CCC / CE / EAC / ENEC 10 / RCM / VDE / VDE-EMC

Product description	Standards	Protection class	Type of protection
OTi DALI 210/220-240/24 1-4 CH	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	I	IP66/IP67

Logistical data

Product description	Commodity code
OTi DALI 210/220-240/24 1-4 CH	850440829000

Application advice









For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

Product family datasheet

File	
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Technical datasheet OTI DALI 210220-24024 1-4 CH (EN)
	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)
	Certificates CB TEST CERTIFICATE DE1-62077
	Certificates VDE ENEC Certificate 40043863
	Certificates VDE EMC Certificate 40038482
	Declarations of conformity EU Declaration of Conformity 2019 9C1 3772470 EN 00
	CAD data 3-dim 3D STEP file

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	380 mm x 262 mm x 201 mm	20.01 dm ³	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.