

CV Power supplies with DALI



Areas of application

- 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 2 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 output power	Maximum output power	Mains frequency	Efficiency in full-load
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	100 W	100 W ²⁾	50/60 Hz	93 % ³⁾
OTi DALI 210/220-240/24 1-4 CH	210 W ⁵⁾	210 W ²⁾	50/60 Hz	93% ³⁾

Product description	Galvanic isolation primary/secondary	Output ripple Voltage (100 Hz)	Output PWM frequency
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	3 kV	< 5 %	1k Hz
OTi DALI 210/220-240/24 1-4 CH	3 kV	< 5 %	1k Hz

Product description	Nominal output voltage	Input voltage DC	Input voltage AC	Surge capability (L/N – SD)
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	24 V ⁴⁾	176...276 V	198...264 V	
OTi DALI 210/220-240/24 1-4 CH	24.7 V ⁴⁾	176...276 V ⁶⁾	198...264 V	8 kV

¹⁾ See product remark

²⁾ at steady state

³⁾ at 230 V, 50 Hz

⁴⁾ DC voltage

⁵⁾ Lamp failure detection: minimum load per channel that doesn't trigger open circuit detection is 30 W

⁶⁾ with external fuse

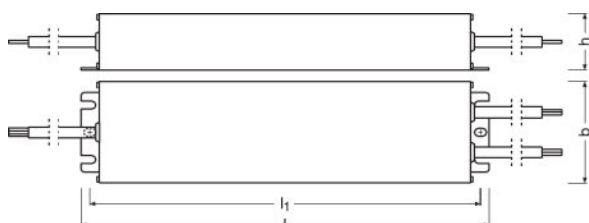
Dimensions & weight

Product description	Mounting hole spacing, length	Product weight	Width	Height	Length
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	227.0 mm	1150.00 g	69.0 mm	37.0 mm	237.0 mm
OTi DALI 210/220-240/24 1-4 CH	320.0 mm	1415.00 g	69.0 mm	37.0 mm	330.0 mm

¹⁾ See product remark

Product family datasheet

Product line drawing



OTi DALI 100/220-240/24 1-4 CH P, OTi DALI 210/220-240/24 1-4 CH

Temperatures & operating conditions

Product description	Permitted rel. humidity during operation
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	5...85 % ²⁾
OTi DALI 210/220-240/24 1-4 CH	5...85 % ²⁾

¹⁾ See product remark

²⁾ Maximum 56 days/year at 85 %

Capabilities

Product description	Suitable for fixtures with prot. class	Overheating protection	Overload protection	
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	I	Automatic reversible	Automatic reversible	
OTi DALI 210/220-240/24 1-4 CH	I	Automatic reversible	Automatic reversible	

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Dimming interface
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	Automatic reversible	Yes	No	DALI-2
OTi DALI 210/220-240/24 1-4 CH	Automatic reversible	Yes	No	DALI-2

Product family datasheet

Product description	Number of channels	Dimmable
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	4	Yes
OTi DALI 210/220-240/24 1-4 CH	4	Yes

¹⁾ See product remark

Certificates & standards

Product description	Type of protection	Standards	Approval marks – approval
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	IP66/IP67	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	CE / EAC / ENEC 10 / RCM / VDE / VDE-EMC
OTi DALI 210/220-240/24 1-4 CH	IP66/IP67	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	BIS / CCC / CE / EAC / ENEC 10 / RCM / VDE / VDE-EMC

¹⁾ See product remark

Logistical data

Product description	Commodity code
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	850440829000
OTi DALI 210/220-240/24 1-4 CH	850440829000

¹⁾ See product remark

Environmental information

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	23-12-2021	4062172119191	Lead
OTi DALI 210/220-240/24 1-4 CH	23-12-2021	4062172032087	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	34982fbe-faf9-47e8-abad-e4d129a2a129
OTi DALI 210/220-240/24 1-4 CH	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	bbfff661-3b2d-4f1a-9331-773c62c440db

Product family datasheet

1) See product remark

Product remark

Emergency lighting: EL sign













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

File	
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet OTi DALI 100 1-4CH Technical Datasheet (EN)
	Certificates OT ENEC 40050684 060421
	Certificates OTi DALI 100 1_4CH P NSW27729 080620
	Certificates OT EMC 40038482 220421
	Declarations of conformity OTi DALI 100 CE 4187171 290120
	CAD data 3-dim OTi DALI 100 220-240 24 1-4 CH P - 3D stp file
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet OTi DALI 210 1-4CH Technical Datasheet (EN)
	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)
	Certificates CB TEST CERTIFICATE DE1-62077
	Certificates OTi DALI 210 CB DE1 63487 280420

Product family datasheet

	Certificates OTI DALI 210 1 4 CH IEC DE1 63487 A1 220920
	Certificates VDE ENEC Certificate 40043863
	Declarations of conformity EU Declaration of Conformity 2019 9C1 3772470 EN 00
	CAD data 3-dim 3D STEP file
	CAD data 3-dim OTi DALI 210 220-240 24 1-4 CH - 3D stp file

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
4062172119191	OTi DALI 100/220-240/24 1-4 CH P	Shipping carton box 6	287 mm x 262 mm x 201 mm	15.11 dm ³	7478.00 g
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.