

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

Technical data

Electrical data

Product description	Nominal output power	Maximum output power	Mains frequency	Efficiency in full-load
OTi DALI 210/220-240/244CHDT6/8 P	0...210 W ²⁾	210 W ³⁾	50/60 Hz	93% ⁴⁾
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	100 W	100 W ³⁾	50/60 Hz	93 % ⁴⁾
OTi DALI 210/220-240/24 1-4 CH	210 W ²⁾	210 W ³⁾	50/60 Hz	93% ⁴⁾

Product description	Galvanic isolation primary/secondary	Surge capability (L/N – SD)	Input voltage AC
OTi DALI 210/220-240/244CHDT6/8 P	3 kV	8 kV	198...264 V
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	3 kV		198...264 V
OTi DALI 210/220-240/24 1-4 CH	3 kV	8 kV	198...264 V

Product description	Output PWM frequency	Input voltage DC	Nominal output voltage	Output ripple Voltage (100 Hz)
OTi DALI 210/220-240/244CHDT6/8 P	1.4 Hz	176...276 V ⁵⁾	24.7 V ⁶⁾	< 5 %
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	1k Hz	176...276 V	24 V ⁶⁾	< 5 %
OTi DALI 210/220-240/24 1-4 CH	1k Hz	176...276 V ⁵⁾	24.7 V ⁶⁾	< 5 %

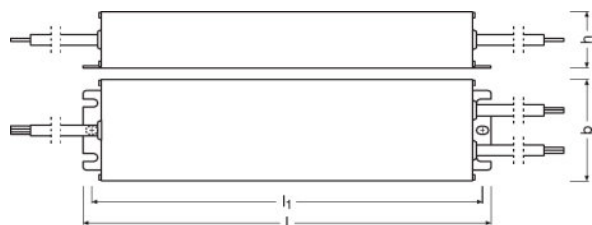
— 1) See product remark
2) Lamp failure detection: minimum load per channel that doesn't trigger open circuit detection is 30 W
3) at steady state
4) at 230 V, 50 Hz
5) with external fuse
6) DC voltage

Dimensions & weight

Product description	Mounting hole spacing, length	Height	Width	Length	Product weight
OTi DALI 210/220-240/244CHDT6/8 P	326.0 mm	37.0 mm	69.0 mm	330.0 mm	1350.00 g
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	227.0 mm	37.0 mm	69.0 mm	237.0 mm	1150.00 g
OTi DALI 210/220-240/24 1-4 CH	326.0 mm	37.0 mm	69.0 mm	330.0 mm	1415.00 g

1) See product remark

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 210/220-240/244CHDT6/8 P	5...85 % ²⁾
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 210/220-240/244CHDT6/8 P	I	Automatic reversible	Automatic reversible
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 family datasheet

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Number of channels
OTi DALI 210/220-240/244CHDT6/8 P	Automatic reversible	Yes	No	4
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	Automatic reversible	Yes	No	4
OTi DALI 210/220-240/24 1-4 CH	Automatic reversible	Yes	No	4

Product description	Dimmable	Dimming interface
OTi DALI 210/220-240/244CHDT6/8 P	Yes	DALI-2
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	Yes	DALI-2
OTi DALI 210/220-240/24 1-4 CH	Yes	DALI-2

¹⁾ See product remark

Certificates & standards

Product description	Type of protection	Standards	Approval marks – approval
OTi DALI 210/220-240/244CHDT6/8 P	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	ENEC 10 / RCM / VDE / UKCA / EL / MM
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 210/220-240/244CHDT6/8 P	85044083900
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	85044083900
OTi DALI 210/220-240/24 1-4 CH	85044083900

¹⁾ See product remark

Product family datasheet

Environmental information
Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OTi DALI 210/220-240/244CHDT6/8 P	22-09-2023	4062172364263	Lead
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	09-06-2023	4062172119191	Lead
OTi DALI 210/220-240/24 1-4 CH	30-08-2023	4062172032087	Lead

Product description	CAS No. of substance 1	Declaration No. in SCIP database	Safe Use Instruction
OTi DALI 210/220-240/244CHDT6/8 P	7439-92-1	b97f1b67-1e43-4e8b-846e-e411b7568a4a	
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	7439-92-1	43d82ae1-10f9-433e-a119-bcdabdcfdc2c	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OTi DALI 210/220-240/24 1-4 CH	7439-92-1	2aa25e91-6f84-40c5-8e57-f9de80b14741	The identification of the Candidate List substance is sufficient to allow safe use of the article.

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 Specification sheet

Product family datasheet

	CAD data OTi DALI 210 24 4CH DT6 8 P IGS 4489886 072023
	CAD data OTi DALI 210 24 4CH DT6 8 STEP 4489886 072023
	CAD Data 2-dim OTi DALI 210 24 4CH DT6 8 P 2PDF 4489886 072023
	CAD data 3-dim OTi DALI 210 24 4CH DT6 8 P 3PDF 4489886 072023
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet OTi DALI 100 1-4CH Technical Datasheet (EN)
	Certificates OT VDE ENEC 40050684 290923
	Certificates OTi DALI 100 1_4CH P NSW27729 080620
	Certificates OT EMC 40038482 290922
	Declarations of conformity OTi DALI 100 1 4 CH P CE 4187171 03 280723
	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
	Certificates OTi DALI 210 1 4 CH IEC DE1 63487 A1 220920
	Certificates VDE ENEC Certificate 40043863
	Declarations of conformity OTi DALI 210 24 CE 3772470 03 280723
	CAD data 3-dim 3D STEP file
	CAD data 3-dim OTi DALI 210 220-240 24 1-4 CH - 3D stp file

Product family datasheet

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
4062172364263	OTi DALI 210/220-240/244CHDT6/8 P	Shipping carton box 6	380 mm x 262 mm x 201 mm	20.01 dm ³	8805.00 g
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.