

CV PROTECTED Power supplies with DALI



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

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

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ
OTi DALI 210/220-240/244CHDT6/8 P	220...240 V	50/60 Hz	198...264 V	6 %	0.95...0.99
OTi DALI 210/220-240/24 1-4 CH	230...240 V	50/60 Hz	198...264 V	< 5 %	> 0.95
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	220...240 V	50/60 Hz	198...264 V	< 5 %	> 0.95

Product description	Efficiency in full-load	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 10 A (B)
OTi DALI 210/220-240/244CHDT6/8 P	93% ²⁾	18.4 W	3.7 A	7	7
OTi DALI 210/220-240/24 1-4 CH	93% ²⁾	18.4 W	3.7 A	7	7
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	93 % ²⁾	7 W	55 A	18	11

Product description	Max. ECG no. on circuit breaker 16 A (C)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)
OTi DALI 210/220-240/244CHDT6/8 P	11	11	17	8 kV	6 kV
OTi DALI 210/220-240/24 1-4 CH	11	11	17	8 kV	6 kV
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	29	17	27	8 kV	6 kV

Product description	Nominal output voltage	U-OUT (working voltage)	Nominal output power	Maximum output power
OTi DALI 210/220-240/244CHDT6/8 P	24.7 V ³⁾	24.7 V	0...210 W ⁴⁾	210 W ⁵⁾
OTi DALI 210/220-240/24 1-4 CH	24.7 V ³⁾	24.7 V	210 W ⁴⁾	210 W ⁵⁾
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	24 V ³⁾	24.7 V	100 W	100 W ⁵⁾

Product description	Galvanic isolation	Galvanic isolation primary/secondary	Output ripple Voltage (100 Hz)
OTi DALI 210/220-240/244CHDT6/8 P	SELV	3 kV	< 5 %
OTi DALI 210/220-240/24 1-4 CH	SELV	3 kV	< 5 %
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	SELV	3 kV	< 5 %

Product description	Output PWM frequency	Input voltage DC
OTi DALI 210/220-240/244CHDT6/8 P	1.4 Hz	176...276 V ⁶⁾
OTi DALI 210/220-240/24 1-4 CH	1k Hz	176...276 V ⁶⁾
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	1k Hz	176...276 V

¹⁾ See product remark

Product family datasheet

- 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
6) with external fuse

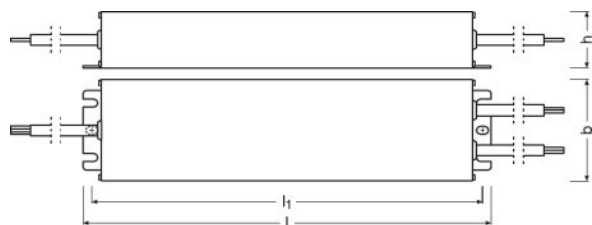
Dimensions & weight

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 210/220-240/244CHDT6/8 P	326.0 mm	1350.00 g	1.0 mm ²	1.5 mm ²	90 mm
OTi DALI 210/220-240/24 1-4 CH	326.0 mm	1415.00 g	1.0 mm ²	1.5 mm ²	90 mm
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	227.0 mm	1150.00 g	1.0 mm ²	1.5 mm ²	90 mm

Product description	Wire preparation length, output side	Mounting hole spacing, width	Width	Length	Height
OTi DALI 210/220-240/244CHDT6/8 P	90 mm	320.0 mm	69.0 mm	330.0 mm	37.0 mm
OTi DALI 210/220-240/24 1-4 CH	90 mm	320.0 mm	69.0 mm	330.0 mm	37.0 mm
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	90 mm	227 mm	69.0 mm	237.0 mm	37.0 mm

¹⁾ See product remark

Product line drawing



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

Colors & materials

Product description	Casing material
OTi DALI 210/220-240/244CHDT6/8 P	Plastic
OTi DALI 210/220-240/24 1-4 CH	Aluminium
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	Aluminium

¹⁾ See product remark

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 210/220-240/244CHDT6/8 P	-30...+55 °C	80 °C	110 °C	-40...+85 °C
OTi DALI 210/220-240/24 1-4 CH	-20...+60 °C	85 °C	110 °C	-40...+85 °C
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	-20...+60 °C	75 °C	110 °C	-40...+85 °C

Product family datasheet

Product description	Permitted rel. humidity during operation
OTi DALI 210/220-240/244CHDT6/8 P	5...85 % ²⁾
OTi DALI 210/220-240/24 1-4 CH	5...85 % ²⁾
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	5...85 % ²⁾

¹⁾ See product remark
²⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OTi DALI 210/220-240/244CHDT6/8 P	50000 h
OTi DALI 210/220-240/24 1-4 CH	50000 h
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	50000 h

¹⁾ See product remark

Capabilities

Product description	Dimmable	Dimming interface	Dimming range	Dimming method
OTi DALI 210/220-240/244CHDT6/8 P	Yes	DALI-2	0.1...100 %	Pulse Width Modulation
OTi DALI 210/220-240/24 1-4 CH	Yes	DALI-2	0.1...100 %	Pulse Width Modulation
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	Yes	DALI-2	0.1...100 %	Pulse Width Modulation

Product description	Overheating protection	Overload protection	Short-circuit protection	No-load proof
OTi DALI 210/220-240/244CHDT6/8 P	Automatic reversible	Automatic reversible	Automatic reversible	Yes
OTi DALI 210/220-240/24 1-4 CH	Automatic reversible	Automatic reversible	Automatic reversible	Yes
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	Automatic reversible	Automatic reversible	Automatic reversible	Yes

Product description	Intended for no-load operation	Suitable for fixtures with prot. class	Type of connection, input side
OTi DALI 210/220-240/244CHDT6/8 P	No	I	Wires
OTi DALI 210/220-240/24 1-4 CH	No	I	Wires
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	No	I	Wires

Product description	Type of connection, output side	Number of channels
OTi DALI 210/220-240/244CHDT6/8 P	Wires	4
OTi DALI 210/220-240/24 1-4 CH	Wires	4
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	Wires	4

¹⁾ See product remark

Certificates & standards

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

¹⁾ See product remark

Logistical data

Product description	Commodity code
OTi DALI 210/220-240/244CHDT6/8 P	85044083900
OTi DALI 210/220-240/24 1-4 CH	85044083900
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	85044083900

¹⁾ See product remark

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 210/220-240/24 1-4 CH	30-08-2023	4062172032087	Lead
OTi DALI 100/220-240/24 1-4 CH P ¹⁾	09-06-2023	4062172119191	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	

Product family datasheet

Product description	CAS No. of substance 1	Declaration No. in SCIP database	Safe Use Instruction
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.
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.

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
	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 210 1-4CH Technical Datasheet (EN)

Product family datasheet

	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)
	Certificates CB TEST CERTIFICATE DE1-62077
	Certificates OT VDE ENEC 40050684 290923
	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
	Certificates OT EMC 40038482 290922
	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
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet OTi DALI 100 1-4CH Technical Datasheet (EN)
	Certificates OTi DALI 100 1_4CH P NSW27729 080620
	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

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.

Product family datasheet

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
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
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

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.