

CV Power supplies with DALI



Product family features

- Dimmable via Touch DIM
- 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
- No stroboscopic effect thanks to patented high PWM frequency management (> 2 kHz)
- 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 family datasheet

Technical data

Product description	Electrical data					
	Nominal input voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ	Efficiency in full-load
OTi DALI 50/220-240/24 4CHDT6/8	220...240 V	50/60 Hz	198...264 V	< 5 %	> 0.95	92 % ¹⁾
OTi DALI 80/220-240/24 4CHDT6/8	220...240 V	50/60 Hz	198...264 V	< 5 %	> 0.95	93 % ¹⁾
OTi DALI 160/220-240/24 2CHDT6/8	220...240 V	50/60 Hz	198...264 V	< 5 %	> 0.95	93 % ¹⁾
OTi DALI 50/220-240/24 1CH	220...240 V	50/60 Hz	198...264 V	< 5 %	> 0.95	92 % ¹⁾
OTi DALI 80/220-240/24 1CH	220...240 V	50/60 Hz	198...264 V	< 5 %	> 0.95	93 % ¹⁾
OTi DALI 160/220-240/24 1CH	220...240 V	50/60 Hz	198...264 V	< 5 %	> 0.95	93 % ¹⁾

Product description	Device power loss	Networked standby power	Inrush current	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 10 A (B)
OTi DALI 50/220-240/24 4CHDT6/8	4.4 W	<0.50 W ¹⁾	41 A	22	13
OTi DALI 80/220-240/24 4CHDT6/8	6.0 W	<0.50 W ¹⁾	46 A	15	9
OTi DALI 160/220-240/24 2CHDT6/8	11.0 W	<0.50 W ¹⁾	57 A	8	4
OTi DALI 50/220-240/24 1CH	4.4 W	<0.50 W ¹⁾	41 A	22	13
OTi DALI 80/220-240/24 1CH	6.0 W	<0.50 W ¹⁾	46 A	15	9
OTi DALI 160/220-240/24 1CH	11.0 W	<0.50 W ¹⁾	57 A	8	4

Product description	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 16 A (C)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L-N)	Nominal output voltage
OTi DALI 50/220-240/24 4CHDT6/8	21	36	33	1 kV	24 V ²⁾
OTi DALI 80/220-240/24 4CHDT6/8	15	25	23	1 kV	24 V ²⁾
OTi DALI 160/220-240/24 2CHDT6/8	7	13	12	1 kV	24 V ²⁾
OTi DALI 50/220-240/24 1CH	21	36	33	1 kV	24 V ²⁾
OTi DALI 80/220-240/24 1CH	15	25	23	1 kV	24 V ²⁾
OTi DALI 160/220-240/24 1CH	7	13	12	1 kV	24 V ²⁾

Product description	U-OUT (working voltage)	Nominal output power	Maximum output power	Galvanic isolation	Galvanic isolation primary/secondary
OTi DALI 50/220-240/24 4CHDT6/8	24.2 V	50 W	50 W ³⁾	SELV	3.75 kV
OTi DALI 80/220-240/24 4CHDT6/8	24.2 V	80 W	80 W ³⁾	SELV	3.75 kV
OTi DALI 160/220-240/24 2CHDT6/8	24.2 V	160 W	160 W ³⁾	SELV	3.75 kV
OTi DALI 50/220-240/24 1CH	24.2 V	50 W	50 W ³⁾	SELV	3.75 kV
OTi DALI 80/220-240/24 1CH	24.2 V	80 W	80 W ³⁾	SELV	3.75 kV
OTi DALI 160/220-240/24 1CH	24.2 V	160 W	160 W ³⁾	SELV	3.75 kV

Product family datasheet

Product description	Output ripple Voltage (100 Hz)	Output PWM frequency	Input voltage DC	Dimensions & weight	
				Mounting hole spacing, length	Product weight
OTi DALI 50/220-240/24 4CHDT6/8	< 1 %	> 2000 Hz	176...276 V	300.6 mm	191.00 g
OTi DALI 80/220-240/24 4CHDT6/8	< 1 %	> 2000 Hz	176...276 V	300.6 mm	191.00 g
OTi DALI 160/220-240/24 2CHDT6/8	< 1 %	> 2000 Hz	176...276 V	258.0 mm	380.00 g
OTi DALI 50/220-240/24 1CH	< 1 %	> 2000 Hz	176...276 V	300.6 mm	191.00 g
OTi DALI 80/220-240/24 1CH	< 1 %	> 2000 Hz	176...276 V	300.6 mm	191.00 g
OTi DALI 160/220-240/24 1CH	< 1 %	> 2000 Hz	176...276 V	258.0 mm	380.00 g

Product description	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side	Wire preparation length, output side	Length
OTi DALI 50/220-240/24 4CHDT6/8	0.5...2.5 mm ²	0.2...1.5 mm ²	6.0 mm	5.0 mm	346.0 mm
OTi DALI 80/220-240/24 4CHDT6/8	0.5...2.5 mm ²	0.2...1.5 mm ²	6.0 mm	5.0 mm	346.0 mm
OTi DALI 160/220-240/24 2CHDT6/8	0.5...2.5 mm ²	0.5...2.5 mm ²	6.0 mm	6.0 mm	300.0 mm
OTi DALI 50/220-240/24 1CH	0.5...2.5 mm ²	0.2...1.5 mm ²	6.0 mm	5.0 mm	346.0 mm
OTi DALI 80/220-240/24 1CH	0.5...2.5 mm ²	0.2...1.5 mm ²	6.0 mm	5.0 mm	346.0 mm
OTi DALI 160/220-240/24 1CH	0.5...2.5 mm ²	0.5...2.5 mm ²	6.0 mm	6.0 mm	300.0 mm

Product description	Height	Width	Colors & materials	Temperatures & operating conditions	
			Casing material	Ambient temperature range	Maximum temperature at tc test point
OTi DALI 50/220-240/24 4CHDT6/8	22.0 mm	32.0 mm	Plastic	-20...+45 °C	70 °C
OTi DALI 80/220-240/24 4CHDT6/8	22.0 mm	32.0 mm	Plastic	-20...+45 °C	85 °C
OTi DALI 160/220-240/24 2CHDT6/8	35.0 mm	50.0 mm	Plastic	-20...+45 °C	90 °C
OTi DALI 50/220-240/24 1CH	22.0 mm	32.0 mm	Plastic	-20...+45 °C	70 °C
OTi DALI 80/220-240/24 1CH	22.0 mm	32.0 mm	Plastic	-20...+45 °C	85 °C
OTi DALI 160/220-240/24 1CH	35.0 mm	50.0 mm	Plastic	-20...+45 °C	90 °C

Product description	Max.housing temperature in case of fault	Temperature range at storage	Permitted rel. humidity during operation	Lifespan	Additional product data
				ECG lifetime	Predecessor EAN
OTi DALI 50/220-240/24 4CHDT6/8	115 °C	-40...+85 °C	5...85 % ⁴⁾	50000 h	405289 949077 2, 405289 945291 6

Product family datasheet

Product description	Max.housing temperature in case of fault	Temperature range at storage	Permitted rel. humidity during operation	Lifespan	Additional product data
				ECG lifetime	Predecessor EAN
OTi DALI 80/220-240/24 4CHDT6/8	115 °C	-40...+85 °C	5...85 % ⁴⁾	50000 h	405289 945289 3, 405289 949075 8
OTi DALI 160/220-240/24 2CHDT6/8	115 °C	-40...+85 °C	5...85 % ⁴⁾	50000 h	405289 998631 2, 405289 998630 5
OTi DALI 50/220-240/24 1CH	115 °C	-40...+85 °C	5...85 % ⁴⁾	50000 h	
OTi DALI 80/220-240/24 1CH	115 °C	-40...+85 °C	5...85 % ⁴⁾	50000 h	
OTi DALI 160/220-240/24 1CH	115 °C	-40...+85 °C	5...85 % ⁴⁾	50000 h	

Product description	Capabilities			
	Dimmable	Dimming interface	Dimming range	Dimming method
OTi DALI 50/220-240/24 4CHDT6/8	Yes	DALI-2	0.1...100 %	Pulse Width Modulation
OTi DALI 80/220-240/24 4CHDT6/8	Yes	DALI-2	0.1...100 %	Pulse Width Modulation
OTi DALI 160/220-240/24 2CHDT6/8	Yes	DALI-2	0.1...100 %	Pulse Width Modulation
OTi DALI 50/220-240/24 1CH	Yes	DALI-2	0.1...100 %	Pulse Width Modulation
OTi DALI 80/220-240/24 1CH	Yes	DALI-2	0.1...100 %	Pulse Width Modulation
OTi DALI 160/220-240/24 1CH	Yes	DALI-2	0.1...100 %	Pulse Width Modulation

Product description	Overheating protection	Overload protection	Short-circuit protection
OTi DALI 50/220-240/24 4CHDT6/8	Automatic reversible	Automatic reversible	Automatic reversible
OTi DALI 80/220-240/24 4CHDT6/8	Automatic reversible	Automatic reversible	Automatic reversible
OTi DALI 160/220-240/24 2CHDT6/8	Automatic reversible	Automatic reversible	Automatic reversible
OTi DALI 50/220-240/24 1CH	Automatic reversible	Automatic reversible	Automatic reversible
OTi DALI 80/220-240/24 1CH	Automatic reversible	Automatic reversible	Automatic reversible
OTi DALI 160/220-240/24 1CH	Automatic reversible	Automatic reversible	Automatic reversible

Product description	No-load proof	Intended for no-load operation	Suitable for fixtures with prot. class	Type of connection, input side
OTi DALI 50/220-240/24 4CHDT6/8	Yes	No	I / II	Screw terminal

Product family datasheet

Product description	No-load proof	Intended for no-load operation	Suitable for fixtures with prot. class	Type of connection, input side
OTi DALI 80/220-240/24 4CHDT6/8	Yes	No	I / II	Screw terminal
OTi DALI 160/220-240/24 2CHDT6/8	Yes	No	I / II	Screw terminal
OTi DALI 50/220-240/24 1CH	Yes	No	I / II	Screw terminal
OTi DALI 80/220-240/24 1CH	Yes	No	I / II	Screw terminal
OTi DALI 160/220-240/24 1CH	Yes	No	I / II	Screw terminal

Product description	Type of connection, output side	Control interface	Number of channels	Programming
				Tuner4TRONIC
OTi DALI 50/220-240/24 4CHDT6/8	Screw terminal	DALI-2	4	Yes
OTi DALI 80/220-240/24 4CHDT6/8	Screw terminal	DALI-2	4	Yes
OTi DALI 160/220-240/24 2CHDT6/8	Screw terminal	DALI-2	2	Yes
OTi DALI 50/220-240/24 1CH	Screw terminal	DALI-2	1	Yes
OTi DALI 80/220-240/24 1CH	Screw terminal	DALI-2	1	Yes
OTi DALI 160/220-240/24 1CH	Screw terminal	DALI-2	1	Yes

Product description	Certificates & standards			Logistical data
	Approval marks – approval	Standards	Protection class	Commodity code
OTi DALI 50/220-240/24 4CHDT6/8	BIS / CCC / CE / EAC / EL / ENEC 10 / RCM / VDE / VDE-ENEC	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	II	850440829000
OTi DALI 80/220-240/24 4CHDT6/8	BIS / CCC / CE / EAC / EL / ENEC 10 / RCM / VDE / VDE-ENEC	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	II	850440829000
OTi DALI 160/220-240/24 2CHDT6/8	BIS / CCC / CE / EAC / EL / ENEC 10 / RCM / VDE / VDE-ENEC	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	II	850440829000
OTi DALI 50/220-240/24 1CH	BIS / CCC / CE / EAC / EL / ENEC 10 / RCM / VDE / VDE-ENEC	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	II	850440829000

Product family datasheet

Product description	Certificates & standards			Logistical data
	Approval marks – approval	Standards	Protection class	Commodity code
OTi DALI 80/220-240/24 1CH	BIS / CCC / CE / EAC / EL / ENEC 10 / RCM / VDE / VDE-ENEC	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	II	850440829000
OTi DALI 160/220-240/24 1CH	BIS / CCC / CE / EAC / EL / ENEC 10 / RCM / VDE / VDE-ENEC	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	II	850440829000

Product description	Environmental information			
	Date of Declaration	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1
OTi DALI 50/220-240/24 4CHDT6/8	23-12-2021	4062172177900	Lead	7439-92-1
OTi DALI 80/220-240/24 4CHDT6/8	23-12-2021	4062172177924	Lead	7439-92-1
OTi DALI 160/220-240/24 2CHDT6/8	23-12-2021	4062172177948	Lead	7439-92-1
OTi DALI 50/220-240/24 1CH	23-12-2021	4062172177962	Lead	7439-92-1
OTi DALI 80/220-240/24 1CH	23-12-2021	4062172177986	Lead	7439-92-1
OTi DALI 160/220-240/24 1CH	23-12-2021	4062172178006	Lead	7439-92-1

Product description	Safe Use Instruction	Declaration No. in SCIP database
OTi DALI 50/220-240/24 4CHDT6/8	The identification of the Candidate List substance is sufficient to allow safe use of the article.	1c560d22-f087-40d4-9d04-7071f5d61f24
OTi DALI 80/220-240/24 4CHDT6/8	The identification of the Candidate List substance is sufficient to allow safe use of the article.	0f8e8db2-6d74-4d2a-876a-07d0c48853d1
OTi DALI 160/220-240/24 2CHDT6/8	The identification of the Candidate List substance is sufficient to allow safe use of the article.	2bb333c6-9282-4fa2-99d7-e06dff259f3e

Product family datasheet

Product description	Safe Use Instruction	Declaration No. in SCIP database
OTi DALI 50/220-240/24 1CH	The identification of the Candidate List substance is sufficient to allow safe use of the article.	5f831b12-67c9-4d08-a134-bccddf1c0a8b
OTi DALI 80/220-240/24 1CH	The identification of the Candidate List substance is sufficient to allow safe use of the article.	672b4f59-fc45-4b41-837e-3095e12b6634
OTi DALI 160/220-240/24 1CH	The identification of the Candidate List substance is sufficient to allow safe use of the article.	0a78d07d-3143-4367-9615-9af6899f81a7

1) at 230 V, 50 Hz
2) DC voltage
3) at steady state
4) Maximum 56 days/year at 85 %

Product family datasheet

Equipment / Accessories

- Suitable for 24 V LED modules

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 Technical datasheet OTi DALI 50 80 220 240 24 4CH DT6 8
	Certificates OT ENEC 40050684 060421
	Certificates IT DALI 1CH 4CH DT6 DT8 CB DE1 64778 070421
	Certificates OT EMC 40038482 220421
	CAD data 3-dim OTi DALI 50-80 220-240 24 _ 3D stp file
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Technical datasheet OTi DALI 160 220 240 24 2CH DT6 8
	CAD data 3-dim OTi DALI 160 220-240 24 _ 3D stp file
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Technical datasheet OTi DALI 50-80_220-240_24 1CH (EN)
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Technical datasheet OTi DALI 160 220-240 24 1CH (EN)

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
4062172177900	OTi DALI 50/220-240/24 4CHDT6/8	Shipping carton box 20	370 mm x 170 mm x 113 mm	7.11 dm ³	3998.00 g
4062172177924	OTi DALI 80/220-240/24 4CHDT6/8	Shipping carton box 20	370 mm x 170 mm x 113 mm	7.11 dm ³	3998.00 g
4062172177948	OTi DALI 160/220-240/24 2CHDT6/8	Shipping carton box 20	335 mm x 268 mm x 167 mm	14.99 dm ³	7918.00 g
4062172177962	OTi DALI 50/220-240/24 1CH	Shipping carton box 20	370 mm x 170 mm x 113 mm	7.11 dm ³	3998.00 g
4062172177986	OTi DALI 80/220-240/24 1CH	Shipping carton box 20	370 mm x 170 mm x 113 mm	7.11 dm ³	3998.00 g
4062172178006	OTi DALI 160/220-240/24 1CH	Shipping carton box 20	335 mm x 268 mm x 167 mm	14.99 dm ³	7918.00 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.