

Areas of application

- [illegible]

- Intelligent power matching thanks to Smart power supply
- Slim form factor for mounting on the cove or in linear luminaires
- Minimized flicker thanks to high PWM frequency
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Available as Tunable White version (DALI Device Type 8)
- DALI message detection "LED Module failure"
- IP rating: IP20

- Dimmable via Touch DIM (if supported)
- LED driver whose output power can be shared arbitrarily among the 2 or 4 channels
- Dimming range: 0...100 %
- Line frequency: 0 Hz | 50 Hz | 60 Hz

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 50/220...240/24 1...4 CH	220...240 V	50/60 Hz	198...264 V	< 5 %	> 0.95	92 %
OTi DALI 50/220...240/24 TW	220...240 V	50/60 Hz	198...264 V	< 5 %	0.98	92 %
OTi DALI 75/220...240/24 1...4 CH	220...240 V	50...60 Hz	198...264 V ²⁾	< 20 %	0.95/0.90 ³⁾	89 % ⁴⁾
OTi DALI 80/220...240/24 1...4 CH	220...240 V	50/60 Hz	198...264 V	< 5 %	> 0.95	93 %
OTi DALI 80/220...240/24 TW	220...240 V	50/60 Hz	198...264 V	< 5 %	0.98	93 %
OTi DALI 160/220...240/24 1-2 CH	220...240 V	50/60 Hz	198...264 V	< 5 %	0.99	93 %
OTi DALI 160/220...240/24 TW	220...240 V	50/60 Hz	198...264 V	< 5 %	0.99	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 16 A (B)
OTi DALI 50/220...240/24 1...4 CH	5.0 W	0.3 W	43 A	9	15
OTi DALI 50/220...240/24 TW	4.4 W	0.36 W	43 A	9	15
OTi DALI 75/220...240/24 1...4 CH	8.5 W ⁵⁾	<1 W	35.6 A ⁶⁾	7	12
OTi DALI 80/220...240/24 1...4 CH	6.2 W	0.3 W	48 A	6	10
OTi DALI 80/220...240/24 TW	6.0 W	0.36 W	48 A	6	10
OTi DALI 160/220...240/24 1-2 CH	11 W	0.36 W	69 A	5	8
OTi DALI 160/220...240/24 TW	11 W	0.36 W	69 A	5	8

Product description	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage
OTi DALI 50/220...240/24 1...4 CH	27	2 kV	1 kV	24 V ¹⁾
OTi DALI 50/220...240/24 TW	25		1 kV	24 V ¹⁾
OTi DALI 75/220...240/24 1...4 CH	-		2 kV	24 V ⁷⁾
OTi DALI 80/220...240/24 1...4 CH	18	2 kV	1 kV	24 V ¹⁾
OTi DALI 80/220...240/24 TW	16		1 kV	24 V ¹⁾
OTi DALI 160/220...240/24 1-2 CH	13		1 kV	24.2 V ¹⁾
OTi DALI 160/220...240/24 TW	13		1 kV	24 V ¹⁾

Product description	U-OUT (working voltage)	Nominal output power	Galvanic isolation	Galvanic isolation primary/secondary
OTi DALI 50/220...240/24 1...4 CH	24.2 V	50 W	SELV	3.1 kV
OTi DALI 50/220...240/24 TW	24.2 V	50 W	SELV	3 kV
OTi DALI 75/220...240/24 1...4 CH	24 V	75 W ⁸⁾	SELV equivalent	3.75 kV ⁹⁾
OTi DALI 80/220...240/24 1...4 CH	24.2 V	80 W	SELV	3.1 kV
OTi DALI 80/220...240/24 TW	24.2 V	80 W	SELV	3 kV
OTi DALI 160/220...240/24 1-2 CH	24.2 V	160 W	SELV	3 kV
OTi DALI 160/220...240/24 TW	24.2 V	160 W	SELV	3 kV

Product family datasheet

Product description	Input voltage DC
OTi DALI 50/220...240/24 1...4 CH	176...276 V
OTi DALI 50/220...240/24 TW	176...276 V
OTi DALI 75/220...240/24 1...4 CH	
OTi DALI 80/220...240/24 1...4 CH	176...276 V
OTi DALI 80/220...240/24 TW	176...276 V
OTi DALI 160/220...240/24 1-2 CH	176...276 V
OTi DALI 160/220...240/24 TW	176...276 V

1) DC voltage

2) Permitted voltage range

3) Full load at 230 V/Half load at 230 V/Minimum

4) At full load and 230 V

5) Maximum

6) $t_{\text{width}} = 270 \mu\text{s}$ (measured at 50 % I_{peak})

7) +1.0/-0.5 V

8) Partial load 0...75 W

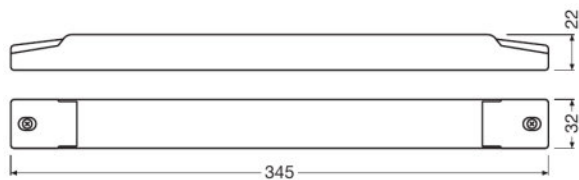
9) SELV-equivalent

Dimensions & weight

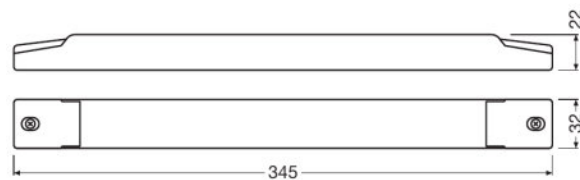
Product description	Length	Width	Height	Mounting hole spacing, length	Product weight	Cable cross-section, input side
OTi DALI 50/220...240/24 1...4 CH	346.0 mm	32.0 mm	22.0 mm	300.6 mm	191.00 g	0.5...2.5 mm ²
OTi DALI 50/220...240/24 TW	346.0 mm	32.0 mm	22.0 mm	300.6 mm	191.00 g	0.75...2.5 mm ²
OTi DALI 75/220...240/24 1...4 CH	220.0 mm	46.2 mm	43.6 mm	180.0 mm	350.00 g	0.5...2.5 mm ²
OTi DALI 80/220...240/24 1...4 CH	346.0 mm	32.0 mm	22.0 mm	300.6 mm	191.00 g	0.5...2.5 mm ²
OTi DALI 80/220...240/24 TW	346.0 mm	32.0 mm	22.0 mm	300.6 mm	191.00 g	0.75...2.5 mm ²
OTi DALI 160/220...240/24 1-2 CH	300.0 mm	50.0 mm	35.0 mm	258.0 mm	380.00 g	0.5...2.5 mm ²
OTi DALI 160/220...240/24 TW	300.0 mm	50.0 mm	35.0 mm	258.0 mm	380.00 g	0.5...2.5 mm ²
Product description	Cable cross-section, output side	Wire preparation length, input side	Wire preparation length, output side	Mounting hole spacing, width		
OTi DALI 50/220...240/24 1...4 CH	0.2...1.5 mm ²	6.0 mm	5.0 mm			
OTi DALI 50/220...240/24 TW	0.2...1.5 mm ²	5.0 mm	5.0 mm			
OTi DALI 75/220...240/24 1...4 CH	0.5...2.5 mm ²	6.0 mm	6.0 mm	0 mm		
OTi DALI 80/220...240/24 1...4 CH	0.2...1.5 mm ²	6.0 mm	5.0 mm			
OTi DALI 80/220...240/24 TW	0.2...1.5 mm ²	5.0 mm	5.0 mm			
OTi DALI 160/220...240/24 1-2 CH	0.5...2.5 mm ²	6.0 mm	6.0 mm	-		
OTi DALI 160/220...240/24 TW	0.5...2.5 mm ²	6.0 mm	6.0 mm	-		

Product family datasheet

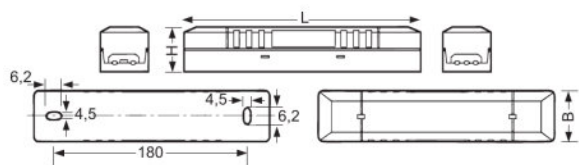
Product line drawing



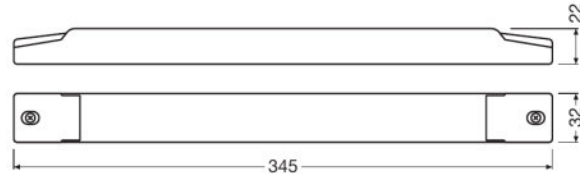
OTi DALI 50/220...240/24 1...4 CH



OTi DALI 50/220...240/24 TW

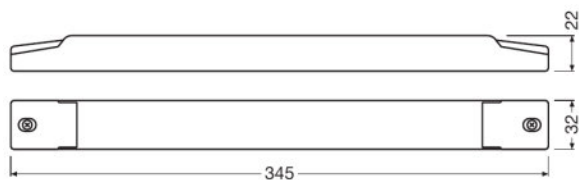


OTi DALI 75/220...240/24 1...4 CH

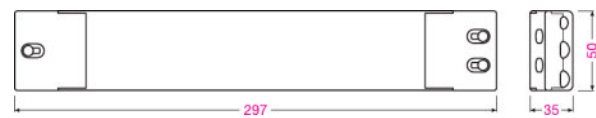


OTi DALI 80/220...240/24 1...4 CH

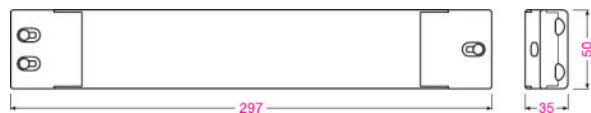
Product family datasheet



OTi DALI 80/220...240/24 TW



OTi DALI 160/220...240/24 1-2 CH



OTi DALI 160/220...240/24 TW

Colors & materials

Product description	Casing material
OTi DALI 50/220...240/24 1...4 CH	Plastic
OTi DALI 50/220...240/24 TW	Plastic
OTi DALI 75/220...240/24 1...4 CH	Plastic
OTi DALI 80/220...240/24 1...4 CH	Plastic
OTi DALI 80/220...240/24 TW	Plastic
OTi DALI 160/220...240/24 1-2 CH	Plastic
OTi DALI 160/220...240/24 TW	Plastic

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Permitted rel. humidity during operation
OTi DALI 50/220...240/24 1...4 CH	-20...+45 °C	70 °C	115 °C	5...85 % ¹⁾
OTi DALI 50/220...240/24 TW	-20...+45 °C	75 °C	115 °C	5...85 % ¹⁾
OTi DALI 75/220...240/24 1...4 CH	-20...+50 °C	75 °C ²⁾	110 °C	5...85 % ¹⁾
OTi DALI 80/220...240/24 1...4 CH	-20...+45 °C	85 °C	115 °C	5...85 % ¹⁾
OTi DALI 80/220...240/24 TW	-20...+45 °C	85 °C	115 °C	5...85 % ¹⁾
OTi DALI 160/220...240/24 1-2 CH	-20...+45 °C	90 °C	115 °C	5...85 % ¹⁾
OTi DALI 160/220...240/24 TW	-20...+45 °C	90 °C	120 °C	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

²⁾ Maximum at the Tc-point

Lifespan

Product description	ECG lifetime
OTi DALI 50/220...240/24 1...4 CH	50000 h ¹⁾
OTi DALI 50/220...240/24 TW	50000 h ²⁾
OTi DALI 75/220...240/24 1...4 CH	50000 h ¹⁾
OTi DALI 80/220...240/24 1...4 CH	50000 h ³⁾
OTi DALI 80/220...240/24 TW	50000 h ⁴⁾
OTi DALI 160/220...240/24 1-2 CH	50000 h ⁵⁾
OTi DALI 160/220...240/24 TW	50000 h ⁵⁾

¹⁾ At $T_{case} = 70^{\circ}C$ at T_c point / 10% failure rate

²⁾ $T_c = 70^{\circ}C$, 0.1% / 1,000 h failure rate

³⁾ At $T_{case} = 85^{\circ}C$ at T_c point / 10% failure rate

⁴⁾ $T_c = 85^{\circ}C$, 0.2% / 1,000 h failure rate

⁵⁾ $T_c = 90^{\circ}C$ - 0.2% / 1,000 h failure rate

Additional product data

Product description	Encapsulated
OTi DALI 50/220...240/24 1...4 CH	Yes
OTi DALI 50/220...240/24 TW	Yes
OTi DALI 75/220...240/24 1...4 CH	No
OTi DALI 80/220...240/24 1...4 CH	Yes
OTi DALI 80/220...240/24 TW	Yes
OTi DALI 160/220...240/24 1-2 CH	No
OTi DALI 160/220...240/24 TW	No

Capabilities

Product description	Dimmable	Dimming interface	Dimming range	Dimming method
OTi DALI 50/220...240/24 1...4 CH	Yes	DALI-2	0...100 %	Pulse Width Modulation
OTi DALI 50/220...240/24 TW	Yes	DALI	0...100 %	Pulse Width Modulation
OTi DALI 75/220...240/24 1...4 CH	Yes	DALI / Touch DIM	0...100 %	Pulse Width Modulation
OTi DALI 80/220...240/24 1...4 CH	Yes	DALI-2	0...100 %	Pulse Width Modulation
OTi DALI 80/220...240/24 TW	Yes	DALI	0...100 %	Pulse Width Modulation
OTi DALI 160/220...240/24 1-2 CH	Yes	DALI-2	0...100 %	Pulse Width Modulation
OTi DALI 160/220...240/24 TW	Yes	DALI	0...100 %	Pulse Width Modulation

Product description	Overheating protection	Overload protection	Short-circuit protection	No-load proof
OTi DALI 50/220...240/24 1...4 CH	Automatic reversible	Automatic reversible	Automatic reversible	Yes
OTi DALI 50/220...240/24 TW	Automatic reversible	Automatic reversible	Automatic reversible	Yes
OTi DALI 75/220...240/24 1...4 CH	Automatic reversible	Automatic reversible	Automatic reversible	Yes
OTi DALI 80/220...240/24 1...4 CH	Automatic reversible	Automatic reversible	Automatic reversible	Yes
OTi DALI 80/220...240/24 TW	Automatic reversible	Automatic reversible	Automatic reversible	Yes
OTi DALI 160/220...240/24 1-2 CH	Automatic reversible	Automatic reversible	Automatic reversible	Yes
OTi DALI 160/220...240/24 TW	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 50/220...240/24 1...4 CH	I / II	Screw terminal	4
OTi DALI 50/220...240/24 TW	I / II	Screw terminal	2
OTi DALI 75/220...240/24 1...4 CH	II / I	Screw terminal	
OTi DALI 80/220...240/24 1...4 CH	I / II	Screw terminal	4
OTi DALI 80/220...240/24 TW	I / II	Screw terminal	2
OTi DALI 160/220...240/24 1-2 CH	I / II	Screw terminal	2
OTi DALI 160/220...240/24 TW	I / II	Screw terminal	2

Certificates & standards

Product description	Approval marks – approval
OTi DALI 50/220...240/24 1...4 CH	CE / ENEC 10 / VDE / VDE-EMC / RCM / EAC / CCC / BIS
OTi DALI 50/220...240/24 TW	CE / ENEC 10 / VDE / VDE-EMC / RCM / EAC / CCC / BIS
OTi DALI 75/220...240/24 1...4 CH	CE / ENEC 10 / VDE / VDE-EMC / RCM
OTi DALI 80/220...240/24 1...4 CH	CE / ENEC 10 / VDE / VDE-EMC / RCM / EAC / CCC / BIS
OTi DALI 80/220...240/24 TW	CE / ENEC 10 / VDE / VDE-EMC / RCM / EAC / CCC / BIS
OTi DALI 160/220...240/24 1-2 CH	EL / CCC / EAC / CE / ENEC 10 / VDE / EMC
OTi DALI 160/220...240/24 TW	EL / CCC / EAC / CE / ENEC 10 / VDE / EMC

Product description	Standards	Protection class	Type of protection
OTi DALI 50/220...240/24 1...4 CH	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	IP20
OTi DALI 50/220...240/24 TW	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	II	IP20
OTi DALI 75/220...240/24 1...4 CH	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to EN 55015/Acc. to IEC 61000-3-2/Acc. to IEC 61547/Acc. to IEC 62386-101	II	IP20
OTi DALI 80/220...240/24 1...4 CH	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	IP20
OTi DALI 80/220...240/24 TW	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	II	IP20
OTi DALI 160/220...240/24 1-2 CH	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	II	IP20
OTi DALI 160/220...240/24 TW	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	II	IP20

Logistical data

Product description	Temperature range at storage
OTi DALI 50/220...240/24 1...4 CH	-40...85 °C
OTi DALI 50/220...240/24 TW	-40...85 °C
OTi DALI 75/220...240/24 1...4 CH	-40...85 °C
OTi DALI 80/220...240/24 1...4 CH	-40...85 °C
OTi DALI 80/220...240/24 TW	-40...85 °C
OTi DALI 160/220...240/24 1-2 CH	-20...85 °C
OTi DALI 160/220...240/24 TW	-25...85 °C

Wiring Diagram



OTi DALI 75/220...240/24 1...4 CH

Equipment / Accessories

- Suitable for 24 V LED modules

Application advice

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

Product family datasheet

Sales and Technical Support

Sales and Technical Support www.osram.com

Country specific information

Product description	Product code	METEL code	SEG-No.	STK number	UK Org
OTi DALI 75/220...240/24 1...4 CH	4008321371560	OSROTIDALI752414 CH	-	4031252	-

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet OTi DALI 80220-24024 1-4 CH OTi DALI 50220-24024 1-4 CH (EN)
	Brochures 730792_Light is universal - Easy installation of efficient complete systems (DE)
	Brochures 730791_Light is universal - Easy installation of efficient complete systems (EN)
	Certificates 729875_OTi DALI 50220-24024 1-4 CH EATON Conformity
	Certificates 729877_OTi DALI 50220-24024 1-4 CH Inotec Conformity
	Certificates 729924_INOTEC OTi DALI 50220-24024 1-4 CH
	Certificates VDE ENEC Certificate 40043863
	Certificates VDE EMC Certificate 40038482
	Certificates CB Certificate
	Certificates CCC certificate 2017011002969504
	Certificates Certificate of Approval NSW27729
	Certificates VDE ENEC Certificate 40043863 appendix
	Declarations of conformity 729793_EC OTi DALI 50,8024
	CAD data 3-dim CAD data OTi DALI 5080

Product family datasheet

	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Datasheet OTi DALI 5080 24 TW
	Certificates 730563_VDE Certificate
	Declarations of conformity 727843_Declaration OTi DALI 75
	Certificates 729876_OTi DALI 80220-24024 1-4 CH EATON Conformity
	Certificates 729878_OTi DALI 80220-24024 1-4 CH Conformity Inotec
	Certificates 729923_EATON OTi DALI 50220-24024 1-4 CH
	Certificates 729925_INOTEC OTi DALI 80220-24024 1-4 CH
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Datasheet OTi DALI 160220-24024 1-2 CH
	Certificates CB Test Certificate DE1-59703
	Certificates CEAG Certificate OTi DALI 1601-2 CH
	Certificates INOTEC Certificate OTi DALI 1601-2 CH
	Certificates Certificate NSW27729.1 OTi DALI 160_24
	Certificates CCC Certificate 2018171002002183
	Declarations of conformity 3584656 EU Declaration of Conformity (EN)
	CAD data 3-dim OTi DALI 160220-24024
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Product Datasheet OTi DALI 160220-24024 TW

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899452916	OTi DALI 50/220...240/24 1...4 CH	Shipping carton box 20	370 mm x 170 mm x 113 mm	7.11 dm ³	4034.00 g

Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899490772	OTi DALI 50/220...240/24 TW	Shipping carton box 20	370 mm x 170 mm x 113 mm	7.11 dm ³	4034.00 g
4008321371560	OTi DALI 75/220...240/24 1...4 CH	Shipping carton box 20	348 mm x 247 mm x 265 mm	22.78 dm ³	6395.00 g
4052899452893	OTi DALI 80/220...240/24 1...4 CH	Shipping carton box 20	370 mm x 170 mm x 113 mm	7.11 dm ³	4034.00 g
4052899490758	OTi DALI 80/220...240/24 TW	Shipping carton box 20	370 mm x 170 mm x 113 mm	7.11 dm ³	3998.00 g
4052899986305	OTi DALI 160/220...240/24 1-2 CH	Shipping carton box 20	335 mm x 268 mm x 167 mm	14.99 dm ³	7918.00 g
4052899986312	OTi DALI 160/220...240/24 TW	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.