

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

CV Power supplies with DALI



Areas of application

- Cove lighting, wall washer, corridor, handrail
- Suitable for use in luminaires of protection class I and II

Product family benefits

- 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

Product family features

- 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 datasheet

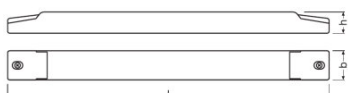
Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Total harmonic distortion	< 5 %
Power factor λ	> 0.95
ECG efficiency	92 %
Device power loss	5.0 W
Power loss in stand-by mode	0.3 W
Inrush current	43 A
Max. ECG no. on circuit breaker 10 A (B)	9
Max. ECG no. on circuit breaker 16 A (B)	15
Max. ECG no. on circuit breaker 25 A (B)	27
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	24 V ¹⁾
U-OUT (working voltage)	24.2 V
Nominal output power	50 W
Galvanic isolation	SELV
Galvanic isolation primary/secondary	3.75 kV
Input voltage DC	176...276 V

¹⁾ DC voltage

Dimensions & weight



Mounting hole spacing, length	300.6 mm
Product weight	191.00 g
Cable cross-section, input side	0.5...2.5 mm ²

Product datasheet

Cable cross-section, output side	0.2...1.5 mm ²
Wire preparation length, input side	6.0 mm
Wire preparation length, output side	5.0 mm
Length	346.0 mm
Width	32.0 mm
Height	22.0 mm

Colors & materials

Casing material	Plastic
-----------------	---------

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	70 °C
Max.housing temperature in case of fault	115 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h ¹⁾
--------------	-----------------------

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

Additional product data

Encapsulated	Yes
--------------	-----

Capabilities

Dimmable	Yes
Dimming interface	DALI-2
Dimming range	0...100 %
Dimming method	Pulse Width Modulation
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Suitable for fixtures with prot. class	I / II
Type of connection, output side	Screw terminal
Number of channels	4

Certificates & standards

Product datasheet

Approval marks – approval	CE / ENEC 10 / VDE / VDE-EMC / RCM / EAC / CCC / BIS
Standards	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
Protection class	II
Type of protection	IP20















Logistical data

Commodity code	850440829000
-----------------------	--------------

Equipment / Accessories

- Suitable for 24 V LED modules

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 OPTOTRONIC constant-voltage LED power supplies and controls (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 OT ENEC 40050684 060520
	Certificates OTi DALI 50 80 CB DE1 63488 280420
	Certificates 729875_OTi DALI 50220-24024 1-4 CH EATON Conformity
	Certificates 729877_OTi DALI 50220-24024 1-4 CH Inotec Conformity
	Certificates VDE ENEC Certificate 40043863
	Certificates VDE EMC Certificate 40038482
	Certificates CB Certificate
	Certificates CCC certificate 2017011002969504
	Certificates Certificate of Approval NSW27729

Product datasheet



Certificates
VDE ENEC Certificate 40043863 appendix



Declarations of conformity
729793_EC OTI DALI 50,8024



CAD data 3-dim
CAD data OTI DALI 5080

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

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.