

PRODUCT DATASHEET

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

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

TECHNICAL DATA

Electrical data

Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V
Total harmonic distortion	< 5 %
Power factor λ	0.99
ECG efficiency	93 %
Device power loss	11 W
Power loss in stand-by mode	0.36 W
Inrush current	69 A
Max. ECG no. on circuit breaker 10 A (B)	5
Max. ECG no. on circuit breaker 16 A (B)	8
Max. ECG no. on circuit breaker 25 A (B)	13
Surge capability (L-N)	1 kV
Nominal output voltage	24 V ¹⁾
U-OUT (working voltage)	24.2 V
Nominal output power	160 W
Galvanic isolation	SELV
Galvanic isolation primary/secondary	3 kV

¹⁾ DC voltage

Dimensions & weight



Length	300.0 mm
Width	50.0 mm
Height	35.0 mm
Mounting hole spacing, length	258.0 mm
Cable cross-section, input side	0.5...2.5 mm ²
Cable cross-section, output side	0.5...2.5 mm ²

Product weight	380.00 g
Wire preparation length, input side	6.0 mm
Wire preparation length, output side	6.0 mm

Colors & materials

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

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	90 °C
Max.housing temperature in case of fault	120 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

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

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

Additional product data

Encapsulated	No
Product remark	Emergency lighting: EL sign

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

Certificates & standards

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

Logistical data

Temperature range at storage	-25...85 °C
------------------------------	-------------

EQUIPMENT / ACCESSORIES

- Suitable for 24 V LED modules

DOWNLOAD DATA

File
 User instruction OPTOTRONIC LED Power Supply
 User instruction OPTOTRONIC LED Power Supply
 Product Datasheet Product Datasheet OTI DALI 160220-24024 TW
 Certificates OTi DALI 160 CB 63486 280420
 Certificates VDE ENEC Certificate 40043863
 Certificates VDE EMC Certificate 40038482
 Certificates VDE ENEC Certificate 40043863 appendix
 Certificates CB Test Certificate DE1-59703
 Certificates Certificate NSW27729.1 OTI DALI 160_24
 Certificates CCC Certificate 2018171002002183
 Certificates OT outdoor ENEC 40050684 100220
 Declarations of conformity 3584656 EU Declaration of Conformity (EN)
 CAD data 3-dim OTI DALI 160220-24024

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899986312	Unpacked 1	- x - x -		
4052899986336	Shipping carton box 20	335 mm x 268 mm x 167 mm	8065.00 g	14.99 dm ³

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.