

PRODUCT DATASHEET

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

CV Power supplies with DALI | CV Power supplies with DALI

Areas of application

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

Product 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

Product 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

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TECHNICAL DATA

Electrical data

| | |
|--|----------------------|
| Nominal wattage | 160.00 W |
| Nominal output power | 160 W |
| Nominal voltage | 220...240 V |
| Nominal output voltage | 24.2 V ¹⁾ |
| Input voltage AC | 198...264 V |
| Input voltage DC | 176...276 V |
| U-OUT (working voltage) | 24.2 V |
| Inrush current | 69 A |
| Mains frequency | 50/60 Hz |
| Total harmonic distortion | < 5 % |
| Power factor λ | 0.99 |
| ECG efficiency | 93 % |
| Device power loss | 11.5 W |
| 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 |
| Galvanic isolation | SELV |
| Power loss in stand-by mode | < 0.3 W |

¹⁾ DC voltage

Dimensions & Weight

| | |
|--------------------------------------|----------------------------|
| Length | 300.00 mm |
| Mounting hole spacing, length | 260,0 mm |
| Width | 50.00 mm |
| Height | 35.00 mm |
| Cable cross-section, input side | 0.75...2.5 mm ² |
| Cable cross-section, output side | 0.75...2.5 mm ² |
| Wire preparation length, input side | 6,0 mm |
| Wire preparation length, output side | 6,0 mm |
| Product weight | 380.00 g |

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Colors & materials

| | |
|-----------------|---------|
| Casing material | Plastic |
| Body 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 | 115 °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 | Yes |
|--------------|-----|

Capabilities

| | |
|--|----------------------|
| Dimmable | Yes |
| Dimming interface | DALI-2 |
| Dimming range | 0...100 % |
| Overheating protection | Automatic reversible |
| Overload protection | Automatic reversible |
| No-load proof | No |
| Short-circuit protection | Automatic reversible |
| Max. cable length to lamp/LED module | 10 m |
| Suitable for fixtures with prot. class | I / II |
| Type of connection, output side | Screw terminal |

Certificates & Standards

| | |
|---------------------------|--|
| 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 |
| Protection class | II |
| Type of protection | IP20 |

LOGISTICAL DATA













| | |
|------------------------------|-------------|
| Temperature range at storage | -20...85 °C |
|------------------------------|-------------|

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EQUIPMENT / ACCESSORIES

– Suitable for 24 V LED modules

DOWNLOAD DATA

| | Documents and certificates | Document name |
|--|--|---|
|  | User instruction / safety instructions | OPTOTRONIC LED Power Supply |
|  | Declarations of conformity | 3584656 EU Declaration of Conformity (EN) |
|  | Certificates | VDE EMC Certificate 40038482 |
|  | Certificates | INOTEC Certificate OTI DALI 160/1-2 CH |
|  | Certificates | OTi DALI 160 CB 63486 280420 |
|  | Certificates | CB Test Certificate DE1-59703 |
|  | Certificates | VDE ENEC Certificate 40043863 appendix |
|  | Certificates | Certificate NSW27729.1 OTI DALI 160_24 |
|  | Certificates | VDE ENEC Certificate 40043863 |
|  | Certificates | OT outdoor ENEC 40050684 100220 |
|  | Certificates | CCC Certificate 2018171002002183 |
|  | Certificates | CEAG Certificate OTI DALI 160/1-2 CH |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4052899986305 | Unpacked 1 | | | |
| 4052899986329 | Shipping 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.

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