

PRODUCT DATASHEET

OTi DALI 160/220...240/24 1-2 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 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 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 | 11.5 W |
| Power loss in stand-by mode | <0.3 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 | 24.2 V ¹⁾ |
| U-OUT (working voltage) | 24.2 V |
| Nominal output power | 160 W |
| Galvanic isolation | SELV |
| Galvanic isolation primary/secondary | 3.1 kV |

¹⁾ DC voltage

Dimensions & weight



| | |
|---------------------------------|----------------------------|
| Length | 300.0 mm |
| Width | 50.0 mm |
| Height | 35.0 mm |
| Mounting hole spacing, length | 260.0 mm |
| Product weight | 380.00 g |
| 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 |

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 | 115 °C |
| Permitted rel. humidity during operation | 5...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 % |
| Dimming method | Pulse Width Modulation |
| Overheating protection | Automatic reversible |
| Overload protection | Automatic reversible |
| Short-circuit protection | Automatic reversible |
| No-load proof | No |
| 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 |
|------------------------------|-------------|

EQUIPMENT / ACCESSORIES

- Suitable for 24 V LED modules

DOWNLOAD DATA

| File | |
|---|---|
|  | User instruction OPTOTRONIC LED Power Supply |
|  | Product Datasheet Datasheet OTI DALI 160220-24024 1-2 CH |
|  | Certificates VDE ENEC Certificate 40043863 |
|  | Certificates VDE EMC Certificate 40038482 |
|  | Certificates VDE ENEC Certificate 40043863 appendix |
|  | 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 |

LOGISTICAL DATA

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|-------------------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 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 | 8065.00 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.