

OTi DALI 210/220-240/24 1-4 CH

CV PROTECTED Power supplies with DALI



Areas of application

- In building facades, cruise ships, luminous signage
- Public squares and architecture lighting
- Suitable for indoor and outdoor SELV installations
- Suitable for use in luminaires of protection class I

Product family benefits

- Long lasting and high reliability
- From 1 to 4 channels to arbitrarily distribute the power
- Suitable for installation under sunlight
- IP66/IP67 Salt mist resistant and DC functionality
- AstroDim functionality for automatic dimming and turn on/off

Product family features

- 1 to 4 DALI addressable channels
- LED driver whose output power can be shared arbitrarily among the 1 or 4 channels
- AstroDim functionality
- Dimming range: 0/0, 1...100 %
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- High level surge protection: up to 6 kV (L-N), 8 kV (L/N-PE)
- Inrush current limiter circuit

Technical data

Electrical data

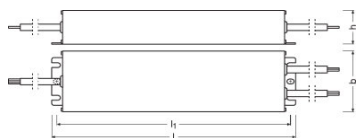
| | |
|--|---------------------------|
| Nominal input voltage | 230...240 V |
| Mains frequency | 50/60 Hz |
| Input voltage AC | 198...264 V |
| Total harmonic distortion | < 5 % |
| Power factor λ | > 0.95 |
| ECG efficiency | 93 % |
| Device power loss | 18.4 W |
| Power loss in stand-by mode | <0.5 W |
| Inrush current | 3.7 A |
| Max. ECG no. on circuit breaker 10 A (B) | 7 |
| Max. ECG no. on circuit breaker 10 A (C) | 7 |
| Max. ECG no. on circuit breaker 16 A (B) | 11 |
| Max. ECG no. on circuit breaker 16 A (C) | 11 |
| Max. ECG no. on circuit breaker 25 A (B) | 17 |
| Surge capability (L/N-Ground) | 8 kV |
| Surge capability (L-N) | 6 kV |
| Nominal output voltage | 24.7 V ¹⁾ |
| U-OUT (working voltage) | 24.7 V |
| Nominal output power | 210 W ²⁾ |
| Galvanic isolation | SELV |
| Galvanic isolation primary/secondary | 3 kV |
| Input voltage DC | 176...276 V ³⁾ |
| Output PWM frequency | 1k Hz |
| Output ripple Voltage (100 Hz) | < 5 % |

¹⁾ DC voltage

²⁾ Lamp failure detection: minimum load per channel that doesn't trigger open circuit detection is 30 W

³⁾ with external fuse

Dimensions & weight



| | |
|--------------------------------------|---------------------|
| Mounting hole spacing, length | 320.0 mm |
| Product weight | 1415.00 g |
| Cable cross-section, input side | 1.0 mm ² |
| Cable cross-section, output side | 1.5 mm ² |
| Wire preparation length, input side | 90 mm |
| Wire preparation length, output side | 90 mm |
| Mounting hole spacing, width | 320.0 mm |
| Length | 330.0 mm |
| Width | 69.0 mm |
| Height | 37.0 mm |

Colors & materials

| | |
|-----------------|-----------|
| Casing material | Aluminium |
|-----------------|-----------|

Temperatures & operating conditions

| | |
|--|------------------------|
| Ambient temperature range | -20...+60 °C |
| Maximum temperature at tc test point | 85 °C |
| Max.housing temperature in case of fault | 110 °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 |
|--------------|---------|

Additional product data

| | |
|--------------|---|
| Encapsulated | - |
|--------------|---|

Product datasheet

Capabilities

| | |
|--|------------------------|
| Dimmable | Yes |
| Dimming interface | DALI |
| 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 |
| Type of connection, output side | Wires |
| Number of channels | 4 |








Certificates & standards

| | |
|---------------------------|---|
| Approval marks – approval | BIS / CCC / CE / EAC / ENEC 10 / RCM / VDE / VDE-EMC |
| Standards | Acc. to EN 61347-2-13/Acc. to EN 61547/Acc. to EN 55015/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61347-1/Acc. to EN 62493 |
| Protection class | I |
| Type of protection | IP66/IP67 |

Logistical data

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

Download Data

| File |
|---|
|  User instruction OPTOTRONIC LED Power Supply |
|  Product Datasheet Technical datasheet OTI DALI 210220-24024 1-4 CH (EN) |
|  Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN) |
|  Certificates CB TEST CERTIFICATE DE1-62077 |
|  Certificates VDE ENEC Certificate 40043863 |
|  Certificates VDE EMC Certificate 40038482 |
|  Declarations of conformity EU Declaration of Conformity 2019 9C1 3772470 EN 00 |

Product datasheet



CAD data 3-dim
3D STEP file

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|--------------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4062172032087 | OTi DALI 210/220-240/24 1-4 CH | Shipping carton box 6 | 380 mm x 262 mm x 201 mm | 20.01 dm ³ | 9195.00 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.