

## OTi DALI 50/220-240/24 1CH G3

CV Power supplies with DALI



### Product family features

- Dimmable via Touch DIM
- Available as single-channel or multi-channel with DT6 and DT8 in one device
- Dimming range: 0.1...100 % (for 50-80-160W) or 1...100 % (for 30W)
- Line frequency: 0 Hz | 50 Hz | 60 Hz

### Product family benefits

- Intelligent power matching thanks to Smart power supply
- Form factor for mounting on the cove or in 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
- DALI message detection "LED Module failure"
- IP rating: IP20

### Areas of application

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

Technical data

Electrical data

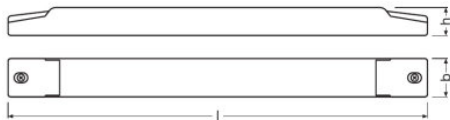
|  |                    |
|--|--------------------|
| Nominal input voltage                    | 220...240 V        |
| Mains frequency                          | 50/60 Hz           |
| Input voltage AC                         | 198...264 V        |
| Total harmonic distortion                | < 5 %              |
| Power factor $\lambda$                   | 0.82C...0.99       |
| Efficiency in full-load                  | 92 % <sup>1)</sup> |
| Device power loss                        | 4.0 W              |
| Inrush current                           | 41 A               |
| Max. ECG no. on circuit breaker 10 A (B) | 13                 |
| Max. ECG no. on circuit breaker 10 A (C) | 22                 |
| Max. ECG no. on circuit breaker 16 A (B) | 21                 |
| Max. ECG no. on circuit breaker 16 A (C) | 36                 |
| Max. ECG no. on circuit breaker 25 A (B) | 33                 |
| Surge capability (L/N-Ground)            | 2 kV               |
| Surge capability (L-N)                   | 1 kV               |
| Nominal output voltage                   | 24 V <sup>2)</sup> |
| U-OUT (working voltage)                  | 24.2 V             |
| Nominal output power                     | 50 W               |
| Maximum output power                     | 50 W <sup>3)</sup> |
| Galvanic isolation                       | SELV               |
| Galvanic isolation primary/secondary     | 3.75 kV            |
| Input voltage DC                         | 176...276 V        |
| Output PWM frequency                     | > 2000 Hz          |
| Output ripple Voltage (100 Hz)           | < 1 %              |

<sup>1)</sup> at 230 V, 50 Hz

<sup>2)</sup> DC voltage

<sup>3)</sup> at steady state

Dimensions & weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Mounting hole spacing, length        | 300.6 mm                  |
| Product weight                       | 19100 g                   |
| Cable cross-section, input side      | 0.5...2.5 mm <sup>2</sup> |
| Cable cross-section, output side     | 0.2...1.5 mm <sup>2</sup> |
| Wire preparation length, input side  | 6.0 mm                    |
| Wire preparation length, output side | 5.0 mm                    |
| Length                               | 3460 mm                   |
| Width                                | 320 mm                    |
| Height                               | 220 mm                    |

Colors & materials

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

Temperatures & operating conditions

|  |                        |
|--|------------------------|
| Ambient temperature range                | -20...+45 °C           |
| Maximum temperature at tc test point     | 75 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Temperature range at storage             | -40...+85 °C           |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

<sup>1)</sup> Maximum 56 days/year at 85 %

Lifespan

|              |         |
|--------------|---------|
| ECG lifetime | 50000 h |
|--------------|---------|

Additional product data

|                 |               |
|-----------------|---------------|
| Predecessor EAN | 4062172177962 |
|-----------------|---------------|

Capabilities

|  |                               |
|--|-------------------------------|
| Dimmable                               | Yes                           |
| Dimming interface                      | DALI-2 / Corridor / Touch DIM |
| Dimming range                          | 0.1...100 %                   |
| Dimming method                         | Pulse Width Modulation        |
| Overheating protection                 | Automatic reversible          |
| Overload protection                    | Automatic reversible          |
| Short-circuit protection               | Automatic reversible          |
| No-load proof                          | Yes                           |
| Intended for no-load operation         | No                            |
| Suitable for fixtures with prot. class | I / II                        |
| Type of connection, input side         | Screw terminal                |
| Type of connection, output side        | Screw terminal                |
| Control interface                      | DALI-2                        |
| Number of channels                     | 1                             |

Programming

|              |     |
|--------------|-----|
| Tuner4TRONIC | Yes |
|--------------|-----|

Certificates & standards

|                           |   |
|---------------------------|---|
| Approval marks – approval | BIS / CCC / EAC / EL / ENEC 10 / RCM / VDE / VDE-EMC  |
| Standards                 | Acc. to EN 55015/Acc. to EN 60598-2-22/Acc. to EN 61000-3-2/Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 61547/Acc. to EN 62384/Acc. to EN 62386 |
| Protection class          | II  |
| Type of protection        | IP20  |

Logistical data

|                |             |
|----------------|-------------|
| Commodity code | 85044083900 |
|----------------|-------------|

Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |               |
|---|---------------|
| Date of Declaration   | 23-06-2023    |
| Primary Article Identifier  | 4062172274340 |
| Candidate List Substance 1  | Lead          |
| CAS No. of substance 1  | 7439-92-1     |




Product datasheet

|                                  |  |
|----------------------------------|--|
| Safe Use Instruction             | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| Declaration No. in SCIP database | ad1b9094-7cf0-4a39-bcde-9fd3d91d8796   |

Equipment / Accessories

- Suitable for 24 V LED modules

Download Data

| File  |  |
|---|--|
|  | User instruction<br>OPTOTRONIC LED Power Supply          |
|  | Product Datasheet<br>OTi DALI 50 80 24 1CH G3 TDS 120522 |
|  | Certificates<br>OT VDE ENEC 40050684 290923              |

Ecodesign regulation information:

Intended for use with LED modules.

— The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

| Product code  | Product description           | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|-------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4062172274340 | OTi DALI 50/220-240/24 1CH G3 | Shipping carton box<br>20    | 370 mm x 170 mm x 113 mm             | 7.11 dm <sup>3</sup> | 3998.00 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.