

## OT 250/220...240/24 DIM P

CV Power supplies 24 V with 1...10 V



### Product family features

- DC mode functionality
- Type of protection: IP66 and IP67
- Surge protection: up to 4 kV (L-N) / 6 kV (L/N-PE)
- Wide operating temperature range: -30...+55 °C
- Lifetime: up to 50,000 h (temperature at max.  $t_c$ )
- Dimmable via fully isolated 1...10 V interface

### Product family benefits

- Large range of products from 20 W to 250 W
- Installation in very cold and hot environments
- Very stable output power
- High electrical reversible short-circuit, overload, overtemperature protection
- Smart Power Supply: boosting power to turn on cold LEDs
- Independent installation possible
- Dimming range: 1...100 %

### Areas of application

- Facades, public squares, cruise ships
- Signage
- Suitable for indoor and outdoor installations

Technical data

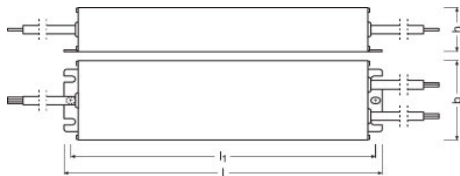
Electrical data

|                                      |                     |
|--------------------------------------|---------------------|
| Nominal output power                 | 250 W               |
| Maximum output power                 | 250 W <sup>1)</sup> |
| Mains frequency                      | 0...60 Hz           |
| Efficiency in full-load              | 92 % <sup>2)</sup>  |
| Galvanic isolation primary/secondary | 3 kV                |
| Device power loss                    | 20 W                |
| Nominal output voltage               | 24.2 V              |
| Input voltage DC                     | 176...276 V         |
| Inrush current                       | 75 A                |
| Input voltage AC                     | 198...264 V         |
| Power factor $\lambda$               | 0.95                |
| Nominal voltage                      | 220...240 V         |

<sup>1)</sup> at steady state

<sup>2)</sup> at 230 V, 50 Hz

Dimensions & weight



|                               |          |
|-------------------------------|----------|
| Mounting hole spacing, length | 250.0 mm |
| Product weight                | 134000 g |
| Length                        | 2650 mm  |
| Width                         | 680 mm   |
| Height                        | 400 mm   |

Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |
| Ambient temperature range                | -30...+55 °C           |

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

Product datasheet

Additional product data

|                 |               |
|-----------------|---------------|
| Predecessor EAN | 4008321981714 |
|-----------------|---------------|

Capabilities

|                                        |          |
|----------------------------------------|----------|
| Suitable for fixtures with prot. class | I        |
| Overheating protection                 | Yes      |
| Overload protection                    | Yes      |
| Short-circuit protection               | Yes      |
| No-load proof                          | Yes      |
| Intended for no-load operation         | No       |
| Dimming interface                      | 1...10 V |
| Dimmable                               | Yes      |
| Number of channels                     | 1        |

Certificates & standards

|                           |                                                                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of protection        | IP66/IP67                                                                                                                                                |
| Standards                 | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384 |
| Approval marks – approval | ENEC / RCM / CCC / EAC                                                                                                                                   |

Logistical data

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

Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                                                                                                    |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Date of Declaration                                                   | 28-04-2023                                                                                         |
| Primary Article Identifier                                            | 4052899545908                                                                                      |
| Candidate List Substance 1                                            | Lead                                                                                               |
| CAS No. of substance 1                                                | 7439-92-1                                                                                          |
| Safe Use Instruction                                                  | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| Declaration No. in SCIP database                                      | 6106517c-2d32-4662-a057-18d404237ee9                                                               |

Download Data

| File |
|------|
|------|

Product datasheet

|                                                                                     |                                                                                 |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|    | User instruction<br>OPTOTRONIC LED Power Supply                                 |
|    | Addon Technical Information<br>Dimming table for OT (EN)                        |
|    | Product Datasheet<br>Datasheet OT 250220-24024 DIM P                            |
|    | Brochures<br>OPTOTRONIC constant-voltage LED power supplies and controls (EN)   |
|    | Certificates<br>Certificate of NSW27873-3 Mod OT 24V P G2 DIM                   |
|    | Certificates<br>CCC Certificate No. 2018011002043871                            |
|    | Certificates<br>OT 24 P CB 4163267 01 101023                                    |
|    | Certificates<br>ENEC Certificate No. U6 18 01 84117 048                         |
|    | Declarations of conformity<br>Attestation of Conformity No. N8A 18 01 84117 054 |
|    | Declarations of conformity<br>Attestation of Conformity No. E8A 18 01 84117 049 |
|   | Declarations of conformity<br>OT 24V P DIMP CE 3537796 09 080823                |
|  | CAD data 3-dim<br>OT 250 220-240 24 DIM P - 3D stp file                         |

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 |
|---------------|---------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899545908 | OT 250/220...240/24 DIM P | Shipping carton box<br>10    | 459 mm x 344 mm x 144 mm             | 22.74 dm <sup>3</sup> | 14752.00 g   |

## Product datasheet

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### Logistical Data

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.

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### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.