

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

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



### Areas of application

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

### 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 %

### 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

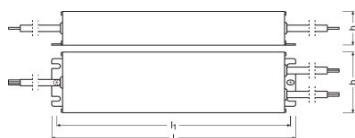
# Product datasheet

## Technical data

### Electrical data

|  |             |
|--|-------------|
| Nominal input voltage                    | 220...240 V |
| Mains frequency                          | 0...60 Hz   |
| Input voltage AC                         | 198...264 V |
| Total harmonic distortion                | < 15 %      |
| Power factor $\lambda$                   | 0.95        |
| ECG efficiency                           | 92 %        |
| Device power loss                        | 20 W        |
| Power loss in stand-by mode              | <0.5 W      |
| Inrush current                           | 75 A        |
| Max. ECG no. on circuit breaker 10 A (B) | 3           |
| Max. ECG no. on circuit breaker 16 A (B) | 8           |
| Max. ECG no. on circuit breaker 25 A (B) | 13          |
| Surge capability (L/N-Ground)            | 6 kV        |
| Surge capability (L-N)                   | 4 kV        |
| Nominal output voltage                   | 24.2 V      |
| U-OUT (working voltage)                  | 30 V        |
| Nominal output power                     | 250 W       |
| Galvanic isolation                       | SELV        |
| Galvanic isolation primary/secondary     | 3 kV        |
| Input voltage DC                         | 176...276 V |

### Dimensions & weight



|                                  |                     |
|----------------------------------|---------------------|
| Mounting hole spacing, length    | 250.0 mm            |
| Product weight                   | 1340.00 g           |
| Cable cross-section, input side  | 1.0 mm <sup>2</sup> |
| Cable cross-section, output side | 1.0 mm <sup>2</sup> |

## Product datasheet

|                                      |          |
|--------------------------------------|----------|
| Wire preparation length, input side  | 90 mm    |
| Wire preparation length, output side | 90 mm    |
| Cable/wire length, control input     | 320 mm   |
| Cable/wire length, input side        | 300 mm   |
| Cable/wire length, output side       | 300 mm   |
| Length                               | 265.0 mm |
| Width                                | 68.0 mm  |
| Height                               | 40.0 mm  |

### Colors & materials

|                 |       |
|-----------------|-------|
| Casing material | Metal |
|-----------------|-------|

### Temperatures & operating conditions

|  |                        |
|--|------------------------|
| Ambient temperature range                | -30...+55 °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 % <sup>1)</sup> |

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

### Lifespan

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

### Additional product data

|              |     |
|--------------|-----|
| Encapsulated | Yes |
|--------------|-----|

### Capabilities

|  |                             |
|--|-----------------------------|
| Dimmable                               | Yes                         |
| Dimming interface                      | 1...10 V                    |
| Dimming range                          | 1...100 %                   |
| Dimming method                         | Pulse Width Modulation      |
| Overheating protection                 | Yes                         |
| Overload protection                    | Yes                         |
| Short-circuit protection               | Yes                         |
| No-load proof                          | Yes                         |
| Suitable for fixtures with prot. class | I                           |
| Type of connection, output side        | Fixed connection (terminal) |
| Number of channels                     | 1                           |

## Product datasheet












### Certificates & standards

|                           |  |
|---------------------------|--|
| Approval marks – approval | ENEC / RCM / CCC / EAC   |
| 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 |
| Protection class          | I  |
| Type of protection        | IP66/IP67  |

### Logistical data

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

### Download Data

| File  |
|---|
|  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>CCC Certificate No. 2018011002043871                            |
|  Certificates<br>CB Test Certificate No. SG PSB-LE-00906                         |
|  Certificates<br>ENEC Certificate No. U6 18 01 84117 048                         |
|  Declarations of conformity<br>EU Declaration of Conformity 3537796              |
|  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>EU Declaration of Conformity OT 24V P_DIMP        |

### 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> | 15002.00 g   |

## Product datasheet

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

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.