

## OT 15/220...240/12 P

CV Power supplies 12 V



### Product family benefits

- Versatile scope of application due to output power range of up to 120 W
- Very high efficiency
- IP rating: up to IP67
- High surge protection: up to 3 kV (L-N) / 6 kV (L/N-PE)

### Areas of application

- Suitable for indoor and outdoor installations
- Ideal for mounting in very tight spaces

## Technical data

### Electrical data

|                                          |                           |
|------------------------------------------|---------------------------|
| Nominal input voltage                    | 220...240 V               |
| Mains frequency                          | 50...60 Hz                |
| Input voltage AC                         | 198...264 V <sup>1)</sup> |
| Total harmonic distortion                | < 20 %                    |
| Power factor $\lambda$                   | > 0.5 <sup>2)</sup>       |
| Efficiency in full-load                  | 79 % <sup>3)</sup>        |
| Device power loss                        | 3.0 W                     |
| Inrush current                           | 20 A <sup>4)</sup>        |
| Max. ECG no. on circuit breaker 10 A (B) | 32                        |
| Max. ECG no. on circuit breaker 16 A (B) | 51                        |
| Max. ECG no. on circuit breaker 25 A (B) | -                         |
| Surge capability (L-N)                   | 4 kV                      |
| Nominal output voltage                   | 12.5 V <sup>5)</sup>      |
| U-OUT (working voltage)                  | 12.5 V                    |
| Nominal output power                     | 15 W <sup>6)</sup>        |
| Maximum output power                     | 15 W <sup>7)</sup>        |
| Galvanic isolation                       | SELV equivalent           |
| Galvanic isolation primary/secondary     | 3.75 kV <sup>8)</sup>     |

<sup>1)</sup>  $V_{AC}$  / Permitted voltage range

<sup>2)</sup> Full load at 230 V

<sup>3)</sup> at 230 V, 50 Hz

<sup>4)</sup>  $t_{width} = 170 \mu s$  (measured at 50 %  $I_{peak}$ )

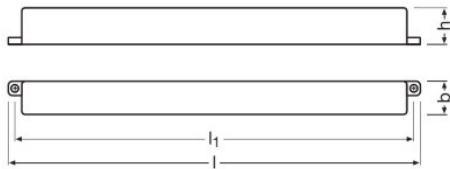
<sup>5)</sup>  $\pm 0.5 V$

<sup>6)</sup> Partial load 0...15 W

<sup>7)</sup> at steady state

<sup>8)</sup> SELV-equivalent

Dimensions & weight



|                                      |                                   |
|--------------------------------------|-----------------------------------|
| Mounting hole spacing, length        | 228.0 mm                          |
| Product weight                       | 170.00 g                          |
| Cable cross-section, input side      | 1.0 mm <sup>2</sup> <sup>1)</sup> |
| Cable cross-section, output side     | 1.0 mm <sup>2</sup> <sup>1)</sup> |
| Wire preparation length, input side  | 10 mm                             |
| Wire preparation length, output side | 10 mm                             |
| Cable/wire length, input side        | 300 mm                            |
| Cable/wire length, output side       | 300 mm                            |
| Length                               | 237.0 mm                          |
| Width                                | 20.0 mm                           |
| Height                               | 22.0 mm                           |

<sup>1)</sup> Flexible

Colors & materials

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

Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -25...+55 °C           |
| Maximum temperature at tc test point     | 80 °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> Non-condensing

Lifespan

|              |                       |
|--------------|-----------------------|
| ECG lifetime | 50000 h <sup>1)</sup> |
|--------------|-----------------------|

<sup>1)</sup> At  $T_a = 70^\circ\text{C}$  / 10% failure rate

### Capabilities

|                                        |                      |
|----------------------------------------|----------------------|
| Dimmable                               | No                   |
| Dimming interface                      | Not dimmable         |
| 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 | II                   |
| Number of channels                     | 1                    |

### Certificates & standards

|                           |                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / ENEC 18 / CB / CCC / EAC                                                                                       |
| Standards                 | Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to CISPR 15/Acc. to EN 61000-3-2/Acc. to EN 61547 |
| Protection class          | II                                                                                                                  |
| Type of protection        | IP66                                                                                                                |

### Logistical data

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

### Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                                                                                                    |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Date of Declaration                                                   | 19-01-2022                                                                                         |
| Primary Article Identifier                                            | 4052899905559                                                                                      |
| 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                                      | A93F415F-A9B1-443E-BBFA-33BC38FD9142                                                               |

### Download Data

| File                                                                                |                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------|
|  | Product Datasheet<br>Datasheet OT 15220-24012 P |

## Product datasheet

|                                                                                   |                                                                               |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
|  | Brochures<br>OPTOTRONIC constant-voltage LED power supplies and controls (EN) |
|  | Certificates<br>345363_CB-Certificate OT15 220 240 12P                        |
|  | Declarations of conformity<br>728507_EU Declaration OT                        |
|  | Declarations of conformity<br>EU Declaration of Conformity 3540579            |
|  | Installation/Operation notice<br>344925_Instruction Sheet_OT 15220-24012 P    |
|  | CAD data 3-dim<br>OT 15 220-240 12V 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 |
|---------------|----------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899905559 | OT 15/220...240/12 P | Shipping carton box<br>50    | 356 mm x 309 mm x 209 mm             | 22.99 dm <sup>3</sup> | 11035.00 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.