

## OPTOTRONIC - ON/OFF ADJ IP66 (SELV)

High current LED drivers



## Product family datasheet

### Technical data

#### Electrical data

| Product description  | Nominal voltage | Input voltage AC | Nominal current      | Mains frequency | Power factor $\lambda$ | Total harmonic distortion |
|----------------------|-----------------|------------------|----------------------|-----------------|------------------------|---------------------------|
| OT 30/220-240/850 P6 | 220...240 V     | 198...264 V      | 0.17 A <sup>1)</sup> | 50/60 Hz        | > 0.95                 | < 10 % <sup>2)</sup>      |
| OT 50/220-240/1A4 P6 | 220...240 V     | 198...264 V      | 0.28 A <sup>1)</sup> | 50/60 Hz        | > 0.95                 | < 10 % <sup>2)</sup>      |
| OT 60/220-240/1A4 P6 | 220...240 V     | 198...264 V      | 0.34 A <sup>1)</sup> | 50/60 Hz        | > 0.95                 | < 10 % <sup>2)</sup>      |

| Product description  | Device power loss   | Inrush current     | Max. ECG no. on circuit breaker 10 A (B) | Max. ECG no. on circuit breaker 16 A (B) | Max. ECG no. on circuit breaker 25 A (B) |
|----------------------|---------------------|--------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| OT 30/220-240/850 P6 | 3.2 W <sup>1)</sup> | 35 A <sup>3)</sup> | 4                                        | 7                                        | 11                                       |
| OT 50/220-240/1A4 P6 | 6.8 W <sup>1)</sup> | 35 A <sup>3)</sup> | 4                                        | 7                                        | 11                                       |
| OT 60/220-240/1A4 P6 | 8.0 W <sup>1)</sup> | 35 A <sup>3)</sup> | 4                                        | 7                                        | 11                                       |

| Product description  | Surge capability (L/N-Ground) | Surge capability (L-N) | Nominal output power | Maximum output power |
|----------------------|-------------------------------|------------------------|----------------------|----------------------|
| OT 30/220-240/850 P6 | 6 kV                          | 4 kV                   | 21...30 W            | 30 W                 |
| OT 50/220-240/1A4 P6 | 6 kV                          | 4 kV                   | 35...50 W            | 50 W                 |
| OT 60/220-240/1A4 P6 | 6 kV                          | 4 kV                   | 42...60 W            | 60 W                 |

| Product description  | Efficiency in full-load | U-OUT (working voltage) | Nominal output current | Output current tolerance |
|----------------------|-------------------------|-------------------------|------------------------|--------------------------|
| OT 30/220-240/850 P6 | 87 % <sup>4)</sup>      | 60 V                    | 0.62...0.85 A          | ±5 %                     |
| OT 50/220-240/1A4 P6 | 87 % <sup>4)</sup>      | 60 V                    | 1.05...1.4 A           | ±5 %                     |
| OT 60/220-240/1A4 P6 | 88 % <sup>4)</sup>      | 60 V                    | 1.2...1.4 A            | ±5 %                     |

| Product description  | Minimum output current | Galvanic isolation |
|----------------------|------------------------|--------------------|
| OT 30/220-240/850 P6 | 0.62 A                 | Double             |
| OT 50/220-240/1A4 P6 | 1.05 A                 | Double             |
| OT 60/220-240/1A4 P6 | 1.2 A                  | Double             |

<sup>1)</sup> Vin 230V 50Hz

<sup>2)</sup> At full load

<sup>3)</sup> Max, th = 350µs

<sup>4)</sup> at 230 V, 50 Hz

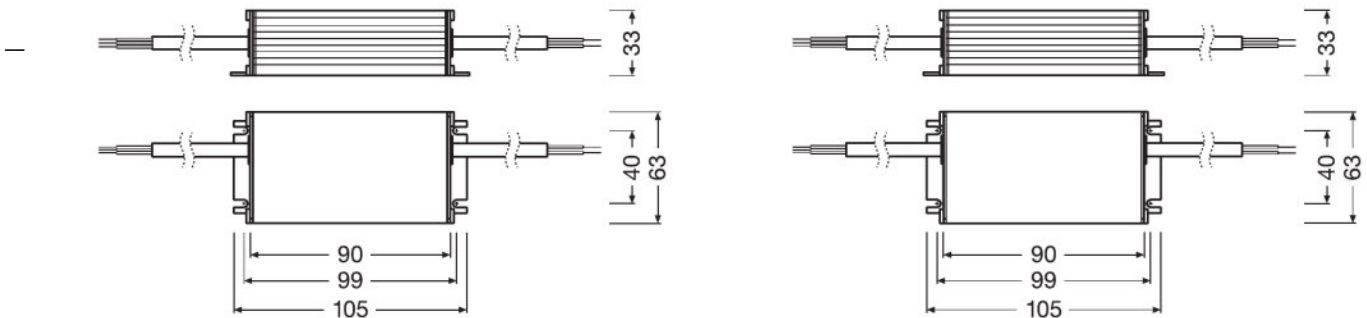
Product family datasheet

Dimensions & weight

| Product description  | Length   | Width   | Height  | Mounting hole spacing, length | Product weight | Cable cross-section, input side |
|----------------------|----------|---------|---------|-------------------------------|----------------|---------------------------------|
| OT 30/220-240/850 P6 | 105.0 mm | 63.0 mm | 33.0 mm | 99.0 mm                       | 365.00 g       | 1.0 mm²                         |
| OT 50/220-240/1A4 P6 | 105.0 mm | 63.0 mm | 33.0 mm | 99.0 mm                       | 365.00 g       | 1.0 mm²                         |
| OT 60/220-240/1A4 P6 | 105.0 mm | 63.0 mm | 33.0 mm | 99.0 mm                       | 365.00 g       | 1.0 mm²                         |

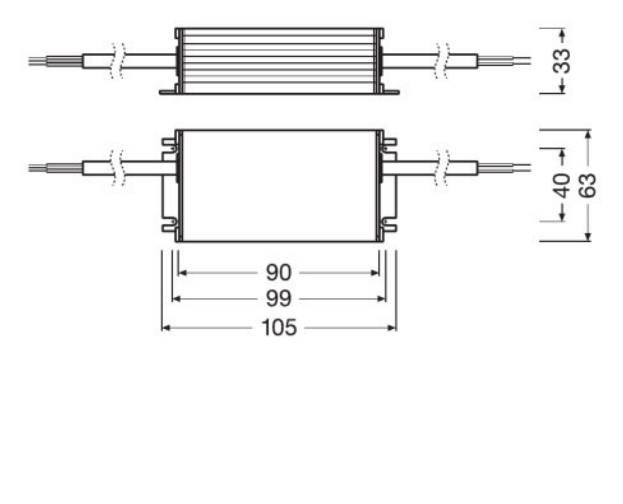
| Product description  | Cable cross-section, output side | Wire preparation length, input side |
|----------------------|----------------------------------|-------------------------------------|
| OT 30/220-240/850 P6 | 1.0 mm²                          | 10 mm                               |
| OT 50/220-240/1A4 P6 | 1.0 mm²                          | 10 mm                               |
| OT 60/220-240/1A4 P6 | 1.0 mm²                          | 10 mm                               |

Product line drawing



OT 30/220-240/850 P6

OT 50/220-240/1A4 P6



OT 60/220-240/1A4 P6

Temperatures & operating conditions

| Product description  | Ambient temperature range | Temperature range at storage | Maximum temperature at tc test point | Max.housing temperature in case of fault |
|----------------------|---------------------------|------------------------------|--------------------------------------|------------------------------------------|
| OT 30/220-240/850 P6 | -40...+55 °C              | -40...+85 °C                 | 90 °C                                | 110 °C                                   |
| OT 50/220-240/1A4 P6 | -40...+55 °C              | -40...+85 °C                 | 90 °C                                | 110 °C                                   |
| OT 60/220-240/1A4 P6 | -40...+55 °C              | -40...+85 °C                 | 90 °C                                | 110 °C                                   |

Lifespan

| Product description  | ECG lifetime          |
|----------------------|-----------------------|
| OT 30/220-240/850 P6 | 50000 h <sup>1)</sup> |
| OT 50/220-240/1A4 P6 | 50000 h <sup>1)</sup> |
| OT 60/220-240/1A4 P6 | 50000 h <sup>1)</sup> |

<sup>1)</sup> At maximum T<sub>c</sub> = 80°C / 10% failure rate

Capabilities

| Product description  | Dimmable | Suitable for fixtures with prot. class | Intended for no-load operation | Number of channels |
|----------------------|----------|----------------------------------------|--------------------------------|--------------------|
| OT 30/220-240/850 P6 | No       | I                                      | No                             | 1                  |
| OT 50/220-240/1A4 P6 | No       | I                                      | No                             | 1                  |
| OT 60/220-240/1A4 P6 | No       | I                                      | No                             | 1                  |

## Product family datasheet

### Certificates & standards

| Product description  | Type of protection | Standards                                                                                                                                                       | Approval marks – approval |
|----------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| OT 30/220-240/850 P6 | IP66               | Acc. to EN 55015/Acc. to EN 60598-1 (ED.8)/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61347-2-13/Acc. to EN 61347-1/Acc. to EN 61547/Acc. to EN 62384 | CCC / CE / ENEC 25 / SELV |
| OT 50/220-240/1A4 P6 | IP66               | Acc. to EN 55015/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 61547/Acc. to EN 62384/Acc. to EN 60598-1 (ED.8) | CCC / CE / ENEC 25 / SELV |
| OT 60/220-240/1A4 P6 | IP66               | Acc. to EN 55015/Acc. to EN 60598-1 (ED.8)/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61347-2-13/Acc. to EN 61547/Acc. to EN 62384/Acc. to EN 61347-1 | CCC / CE / ENEC 25 / SELV |

### Logistical data

| Product description  | Commodity code |
|----------------------|----------------|
| OT 30/220-240/850 P6 | 850440829000   |
| OT 50/220-240/1A4 P6 | 850440829000   |
| OT 60/220-240/1A4 P6 | 850440829000   |

### Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

| Product description  | Date of Declaration    | Primary Article Identifier                                                                         | Candidate List Substance 1           |
|----------------------|------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------|
| OT 30/220-240/850 P6 | 23-12-2021             | 4062172125604                                                                                      | Lead                                 |
| OT 50/220-240/1A4 P6 | 23-12-2021             | 4062172125628                                                                                      | Lead                                 |
| OT 60/220-240/1A4 P6 | 23-12-2021             | 4062172125642                                                                                      | Lead                                 |
| Product description  | CAS No. of substance 1 | Safe Use Instruction                                                                               | Declaration No. in SCIP database     |
| OT 30/220-240/850 P6 | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | adb3c461-355f-4c2b-99f9-3a412ba85466 |

## Product family datasheet

| Product description  | CAS No. of substance 1 | Safe Use Instruction                                                                               | Declaration No. in SCIP database     |
|----------------------|------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------|
| OT 50/220-240/1A4 P6 | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | efbd7bba-8b17-41ef-989f-6c086037f40e |
| OT 60/220-240/1A4 P6 | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 46aa2c86-bc8f-4ebf-8ca0-0a034430295c |

### Application advice

For more detailed application information and graphics please see product datasheet.

### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### Download Data

| File                                                                                |                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------|
|  | User instruction<br>OPTOTRONIC                  |
|  | Certificates<br>CCC certificate of OT P6 family |

### Logistical Data

| Product code  | Product description  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume                | Gross weight |
|---------------|----------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4062172125604 | OT 30/220-240/850 P6 | Shipping carton box<br>20    | 461 mm x 356 mm x 117 mm             | 19.20 dm <sup>3</sup> | 7700.00 g    |
| 4062172125628 | OT 50/220-240/1A4 P6 | Shipping carton box<br>20    | 461 mm x 356 mm x 117 mm             | 19.20 dm <sup>3</sup> | 7700.00 g    |
| 4062172125642 | OT 60/220-240/1A4 P6 | Shipping carton box<br>20    | 461 mm x 356 mm x 117 mm             | 19.20 dm <sup>3</sup> | 7700.00 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.