

## OT 100/220...240/4A2 P5

OPTOTRONIC Outdoor | High current LED drivers



### Areas of application

- Independent installation
- Street and urban lighting
- Industry
- Suitable for luminaires of protection class I

### Product benefits

- High surge protection: up to 6 kV
- High efficiency and reliability
- Adjustable and wide output current range
- Constant current output
- Protection through double isolation between primary and secondary side (SELV)
- High IP protection (IP65)
- Long lifetime: up to 100,000 h

### Product features

- Overtemperature protection
- Available with different wattage: 100 W, 150 W, 200 W
- Line voltage: 220...240 V
- Current setting via potentiometer without programming

## Technical data

### Electrical data

|  |                             |
|--|-----------------------------|
| Nominal voltage                          | 220...240 V                 |
| Input voltage AC                         | 198...264 V <sup>1)</sup>   |
| Nominal current                          | 0.52 A                      |
| Mains frequency                          | 50...60 Hz                  |
| Power factor $\lambda$                   | > 0.99/> 0.90 <sup>2)</sup> |
| Total harmonic distortion                | < 10 %                      |
| Device power loss                        | 14 W                        |
| Inrush current                           | 50 A                        |
| Max. ECG no. on circuit breaker 10 A (B) | 5                           |
| 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)                   | 6 kV                        |
| Nominal output power                     | 100 W <sup>3)</sup>         |
| ECG efficiency                           | 88 %                        |
| Nominal output voltage                   | 24...48 V                   |
| U-OUT (working voltage)                  | 60 V                        |
| Nominal output current                   | 2.1...4.2 mA <sup>4)</sup>  |
| Output current tolerance                 | ±5 %                        |
| Minimum output current                   | 1 A                         |
| Galvanic isolation                       | double/reinforced           |

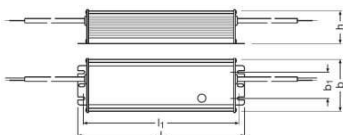
1) Permitted voltage range

2) Full load at 220...240 V<sub>AC</sub>/50 Hz/Half load at 220...240 V<sub>AC</sub>/50 Hz

3) Partial load 51...100 W

4) ±5%

### Dimensions & weight



## Product datasheet

|                                     |                     |
|-------------------------------------|---------------------|
| Length                              | 212.5 mm            |
| Width                               | 68.0 mm             |
| Mounting hole spacing, length       | 201.6 mm            |
| Height                              | 42.5 mm             |
| Product weight                      | 1000.00 g           |
| Cable cross-section, input side     | 1.0 mm <sup>2</sup> |
| Cable cross-section, output side    | 1.0 mm <sup>2</sup> |
| Wire preparation length, input side | 10 mm               |

### Temperatures & operating conditions

|  |              |
|--|--------------|
| Ambient temperature range                | -40...+55 °C |
| Maximum temperature at tc test point     | 85 °C        |
| Max.housing temperature in case of fault | 110 °C       |

### Lifespan

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

### Expected Lifetime

|                               |                              |                     |                     |   |
|-------------------------------|------------------------------|---------------------|---------------------|---|
| Product name                  |                              |                     |                     |   |
| OT<br>100/220...240/4A2<br>P5 | ECG ambient temperature [ta] | -                   | -                   | - |
|                               | Temperature at tc-point [°C] | 80                  | 70                  | - |
|                               | Lifetime [h]                 | 50000 <sup>1)</sup> | 80000 <sup>1)</sup> | - |

<sup>1)</sup> Max. 10% failure rate at tc max

### Capabilities

|  |    |
|--|----|
| Suitable for fixtures with prot. class | I  |
| NTC input                              | No |
| Dimmable                               | No |
| Number of channels                     | 1  |

### Certificates & standards

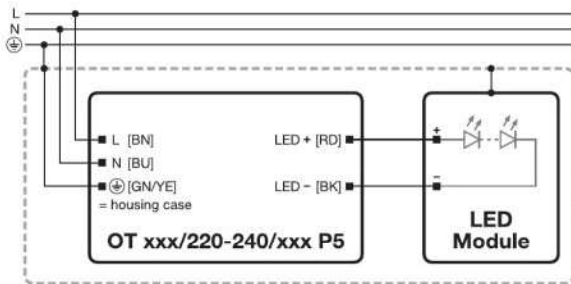
|                           |  |
|---------------------------|--|
| Type of protection        | IP65   |
| Standards                 | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384 |
| Approval marks – approval | CCC / CE / CB  |

## Product datasheet

### Logistical data



|                              |             |
|------------------------------|-------------|
| Temperature range at storage | -40...85 °C |
|------------------------------|-------------|

### Wiring Diagram



### Wiring diagram

### Download Data

| File  |  |
|---|--|
|  | Product Datasheet<br>OT 100220-2404A2 P5   |
|  | Declarations of conformity<br>727242_EC OT |

### Logistical Data

| Product code  | Product description     | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume                | Gross weight |
|---------------|-------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899410657 | OT 100/220...240/4A2 P5 | Shipping carton box<br>10    | 322 mm x 292 mm x 196 mm             | 18.43 dm <sup>3</sup> | 10842.00 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.

## Product datasheet

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### Disclaimer

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