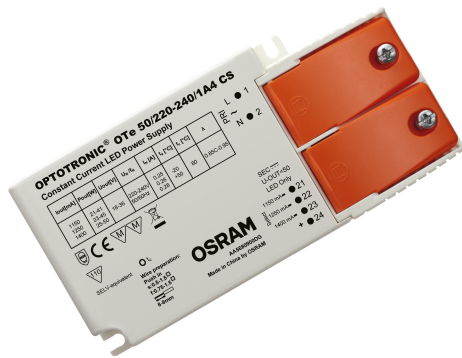


## PRODUCT DATASHEET

### OTe 50/220...240/1A4 CS

OPTOTRONIC® ECO | Constant Current - Indoor - on/off



#### Areas of application

- Suitable for use in luminaires with flexible current setting (Tri-Tap)
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II
- Suitable for downlights, spotlights and LED panels
- Independent mounting via Cable Clamp Kit possible

#### Product benefits

- Versatile scope of application due to output power range of up to 54 W
- Efficient and reliable

#### Product features

- Supply voltage: 220...240 V
- Line frequency: 50 Hz | 60 Hz
- Line voltage: 198...264 V
- According to EN 61347-1, 61347-2-13, 62384
- RI suppression: to EN 55015/CISPR 15
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 50,000 h
- Independent connection via through-looping (depending on version of product)

## TECHNICAL DATA

### Electrical data

|                                          |                                           |
|------------------------------------------|-------------------------------------------|
| Nominal wattage                          | 50.00 W                                   |
| Nominal output power                     | 50 W <sup>1)</sup>                        |
| Nominal voltage                          | 220...240 V                               |
| Nominal output voltage                   | 18...36 V <sup>2)</sup>                   |
| Input voltage AC                         | 198...264 V <sup>3)</sup>                 |
| U-OUT (working voltage)                  | 50 V                                      |
| Nominal output current                   | 1150 mA / 1250 mA / 1400 mA <sup>4)</sup> |
| Inrush current                           | 16 A                                      |
| Output current tolerance                 | ±5 %                                      |
| Output ripple current (100 Hz)           | < 25 % <sup>5)</sup>                      |
| Mains frequency                          | 50/60 Hz                                  |
| Total harmonic distortion                | < 20 %                                    |
| Power factor $\lambda$                   | 0.95                                      |
| ECG efficiency                           | 87 % <sup>6)</sup>                        |
| Device power loss                        | 7.5 W                                     |
| Max. ECG no. on circuit breaker 10 A (B) | 15                                        |
| Max. ECG no. on circuit breaker 16 A (B) | 25                                        |
| Max. ECG no. on circuit breaker 25 A (B) | -                                         |
| Surge capability (L/N-Ground)            | 1 kV                                      |
| Surge capability (L-N)                   | 1 kV                                      |
| Galvanic isolation                       | SELV                                      |

1) Partial load 21...50 W

2) Maximum 50 V

3) Permitted voltage range

4) ±5%

5) Ripple average at 100 Hz %

6) At full load and 230 V

### Dimensions & Weight

|                                     |                           |
|-------------------------------------|---------------------------|
| Length                              | 103.00 mm                 |
| Mounting hole spacing, length       | 94,0 mm                   |
| Width                               | 67.00 mm                  |
| Height                              | 29.50 mm                  |
| Cable cross-section, input side     | 0.5...1.5 mm <sup>2</sup> |
| Cable cross-section, output side    | 0.5...1.5 mm <sup>2</sup> |
| Wire preparation length, input side | 8.0...9.0 mm              |

|                                      |              |
|--------------------------------------|--------------|
| Wire preparation length, output side | 8.0...9.0 mm |
| Product weight                       | 183.00 g     |

### Colors & materials

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

### Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -20...+50 °C           |
| Maximum temperature at tc test point     | 80 °C                  |
| Max.housing temperature in case of fault | 110 °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 / 35000 h <sup>1)</sup> |
|--------------|---------------------------------|

<sup>1)</sup>  $T_c = 75^\circ\text{C}$ , with max. 10% failure rate /  $T_c = 80^\circ\text{C}$ , with max. 10% failure rate

### Additional product data

|              |    |
|--------------|----|
| Encapsulated | No |
|--------------|----|

### Capabilities

|                                        |                      |
|----------------------------------------|----------------------|
| Dimmable                               | No                   |
| Overheating protection                 | Automatic reversible |
| Overload protection                    | Automatic reversible |
| No-load proof                          | Yes                  |
| Short-circuit protection               | Automatic reversible |
| Max. cable length to lamp/LED module   | 2,0 m                |
| Suitable for fixtures with prot. class | I / II               |
| Type of connection, output side        | Push terminal        |

### Certificates & Standards

|                           |                                                                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | ENEC 10 / VDE / CE                                                                                                                                            |
| Standards                 | Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 /<br>Acc. to CISPR 15 / Acc. to IEC 61000-3-2 / Acc. to IEC 61547 / Acc.<br>to IEC 61000-3-3 |
| Protection class          | II                                                                                                                                                            |
| Type of protection        | IP20                                                                                                                                                          |

### LOGISTICAL DATA

|                              |             |
|------------------------------|-------------|
| Temperature range at storage | -25...75 °C |
|------------------------------|-------------|

## Accessories Optional

| Product image                                                                     | Product name              | EAN           |
|-----------------------------------------------------------------------------------|---------------------------|---------------|
|  | OT CABLE CLAMP B-STYLE    | 4052899077881 |
|  | OT CABLE CLAMP B-STYLE TL | 4052899948051 |

## DOWNLOAD DATA

| Documents and certificates                                                             | Document name              |
|----------------------------------------------------------------------------------------|----------------------------|
|  PDF   | Declarations of conformity |
|  PDF | Certificates               |
|  PDF | Certificates               |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4052899917583 | Unpacked<br>1                | 103 mm x 29 mm x 67 mm               | 183.00 g     | 0.20 dm <sup>3</sup> |
| 4052899917644 | Shipping box<br>20           | 357 mm x 222 mm x 96 mm              | 3882.00 g    | 7.61 dm <sup>3</sup> |

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.