

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

OPTOTRONIC ECO | Compact constant current LED driver – Non dimmable



Product family 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)

Product family benefits

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

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



Technical data

Electrical data

| | |
|--|-------------------------------------|
| Nominal input voltage | 220...240 V |
| Mains frequency | 50/60 Hz |
| Input voltage AC | 198...264 V ¹⁾ |
| Total harmonic distortion | < 20 % |
| Power factor λ | 0.95 ²⁾ |
| Efficiency in full-load | 87 % ³⁾ |
| Device power loss | 7.5 W ⁴⁾ |
| Inrush current | 16 A ⁵⁾ |
| 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 |
| Nominal output voltage | 18...36 V ⁶⁾ |
| U-OUT (working voltage) | 50 V |
| Nominal output current | 1150 / 1250 / 1400 mA ⁷⁾ |
| Output current tolerance | ±5 % |
| Output ripple current (100 Hz) | < 25 % ⁸⁾ |
| Nominal output power | 50 W ⁹⁾ |
| Maximum output power | 50 W |
| Galvanic isolation | SELV |

1) Permitted voltage range

2) Full load at 230 V/50 Hz

3) at 230 V, 50 Hz

4) At 230 V

5) $t_{width} = 100 \mu s$ (measured at 50 % I_{peak})

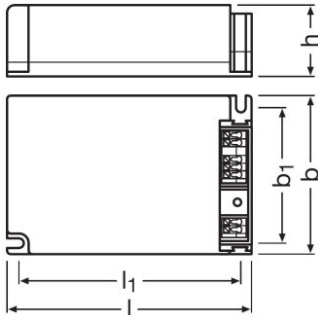
6) Maximum 50 V

7) ±5%

8) Ripple average at 100 Hz

9) Partial load 21...50 W

Dimensions & weight



| | |
|--------------------------------------|---------------------------|
| Mounting hole spacing, length | 94.0 mm |
| Mounting hole spacing, width | 58.0 mm |
| Product weight | 183.00 g |
| Cable cross-section, input side | 0.5...1.5 mm ² |
| Cable cross-section, output side | 0.5...1.5 mm ² |
| Wire preparation length, input side | 8.0...9.0 mm |
| Wire preparation length, output side | 8.0...9.0 mm |
| Length | 103.0 mm |
| Width | 67.0 mm |
| Height | 29.5 mm |

Colors & materials

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

Temperatures & operating conditions

| | |
|--|------------------------|
| Ambient temperature range | -20...+50 °C |
| Maximum temperature at tc test point | 80 °C ¹⁾ |
| Max.housing temperature in case of fault | 110 °C |
| Temperature range at storage | -25...75 °C |
| Permitted rel. humidity during operation | 5...85 % ²⁾ |

¹⁾ Maximum at the T_c-point

²⁾ Non-condensing

Lifespan

| | |
|--------------|-------------------------------|
| ECG lifetime | 50000 / 35000 h ¹⁾ |
|--------------|-------------------------------|

¹⁾ T_c = 75°C, with max. 10% failure rate / T_c = 80°C, with max. 10% failure rate

Product datasheet

Expected Lifetime

| Product name | | | | |
|----------------------------|------------------------------|-------|-------|---|
| OTe 50/220...240/1A4 CS | ECG ambient temperature [ta] | - | - | - |
| | Temperature at tc-point [°C] | 75 | 80 | - |
| | Lifetime [h] | 50000 | 35000 | - |

Additional product data

| | |
|---------------|---------------|
| Successor EAN | 4052899999565 |
|---------------|---------------|

Capabilities

| | |
|--|----------------------|
| Dimmable | No |
| Overheating protection | Automatic reversible |
| Overload protection | Automatic reversible |
| Short-circuit protection | Automatic reversible |
| No-load proof | Yes |
| Intended for no-load operation | No |
| 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 |

Programming

| | |
|--------------------|-----------|
| Programming device | DIPswitch |
|--------------------|-----------|

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/Acc. to CISPR 15/Acc. to IEC 61000-3-2/Acc. to IEC 61547/Acc. to IEC 61000-3-3 |
| Type of protection | IP20 |






Logistical data

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

Download Data

| File |
|------|
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Product datasheet

| | |
|---|--|
|  | Certificates VDE ENEC Certificate 40038384 |
|  | Declarations of conformity OTe CS CE 3365227 210921 |
|  | CAD data 3-dim 351094_OTe 50 CS-cable clamp-3D drawing |
|  | CAD data 3-dim 351095_OTe 50 CS-housing-3D drawing |
|  | CAD data 3-dim 351096_OTe 50 CS-housing with cable clamp-3D drawing |

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 |
|---------------|-------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899917583 | OTe 50/220...240/1A4 CS | Shipping carton box 20 | 357 mm x 222 mm x 96 mm | 7.61 dm ³ | 3911.00 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.

Accessories Optional

| Product description | Accessory name | Accessory code |
|-------------------------|---------------------------|-----------------|
| OTe 50/220...240/1A4 CS | OT CABLE CLAMP B-STYLE | ▶ 4052899077881 |
| OTe 50/220...240/1A4 CS | OT CABLE CLAMP B-STYLE TL | ▶ 4052899948051 |

Product datasheet

Disclaimer

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