

PRODUCT DATASHEET

OTe 18/220...240/350 PC

OPTOTRONIC | Compact constant current LED drivers – Dimmable phase-cut



AREAS OF APPLICATION

- Optional cable clamp E-style for independent mounting
- Suitable for indoor installations
- Suitable for indoor SELV installations

PRODUCT BENEFITS

- Compact housing for mounting in very tight spaces
- Compatible with the most common leading-edge and trailing-edge phase dimmers

PRODUCT FEATURES

- Dimmable via leading edge/trailing edge
- Type of protection: IP20

TECHNICAL DATA

Electrical data

| | |
|---|---------------------------|
| Nominal voltage | 220...240 V |
| Mains frequency | 50...60 Hz |
| Input voltage AC | 198...264 V ¹⁾ |
| Total harmonic distortion | 15 % |
| Power factor λ | 0.95/0.90 ²⁾ |
| ECG efficiency | 86 % ³⁾ |
| Device power loss | 3.0 W ⁴⁾ |
| Inrush current | 5 A ⁵⁾ |
| Max. ECG no. on circuit breaker 10 A (B) | 53 |
| Max. ECG no. on circuit breaker 16 A (B) | 84 |
| 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 | 27...54 V ⁶⁾ |
| U-OUT (working voltage) | 50 V |
| Nominal output current | 350 mA ⁷⁾ |
| Output current tolerance | ± 10 % |
| Output ripple current (100 Hz) | < 35 % |
| Nominal output power | 19 W ⁸⁾ |
| Galvanic isolation | SELV |
| Galvanic isolation primary/secondary | 3 kV |

¹⁾ Permitted voltage range

²⁾ Full load at 230 V/Minimum load at 230 V

³⁾ At full load and 230 V

⁴⁾ Maximum

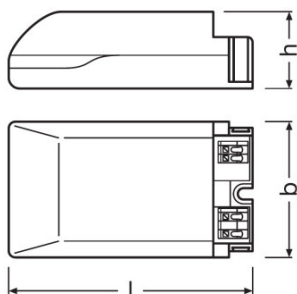
⁵⁾ $t_{\text{width}} = 100 \mu\text{s}$ (measured at 50 % I_{peak})

⁶⁾ Maximum 60 V

⁷⁾ ± 10 %

⁸⁾ Partial load 9.5...19 W

Dimensions & weight



| | |
|---|--|
| Length | 95.0 mm |
| Width | 53.0 mm |
| Height | 30.0 mm |
| Mounting hole spacing, length | - |
| Product weight | 93.00 g |
| Cable cross-section, input side | 0.75...1.5 mm ² ¹⁾ |
| Cable cross-section, output side | 0.5...1.5 mm ² ¹⁾ |
| Wire preparation length, input side | 8.0...9.0 mm |
| Wire preparation length, output side | 8.0...9.0 mm |

¹⁾ Flexible / Solid leads

Colors & materials

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

Temperatures & operating conditions

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

¹⁾ Maximum at the Tc-point

Lifespan

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

¹⁾ At T_{case} = 70°C at T_c point / 10% failure rate

Additional product data

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

Capabilities

| | |
|---|---|
| Dimmable | Yes |
| Dimming interface | Phase Cut ¹⁾ |
| Dimming range | 10...100 % |
| Dimming method | Amplitude Modulation / Pulse Width Modulation |
| Overheating protection | Automatic reversible |
| Overload protection | Automatic reversible |
| Short-circuit protection | Automatic reversible |
| No-load proof | Yes |
| 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 |

¹⁾ Leading edge / Trailing edge










Certificates & standards

| | |
|----------------------------------|---|
| Approval marks – approval | CE / ENEC 10 / VDE / CB |
| 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 61000-3-3/Acc. to IEC 61547 |
| Protection class | II |
| Type of protection | IP20 |

Logistical data

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

DOWNLOAD DATA

| File | |
|---|---|
|  | Certificates VDE ENEC Certificate 40038447 |
|  | Certificates VDE EMC Certificate 40038482 |
|  | Certificates 503096_CB report OTe 25 700 PC - OTe 18 350 PC - OTe 18 500 |
|  | Declarations of conformity EU Declaration of Conformity 3365230 |
|  | Installation/Operation notice 544631_OT PC dimmer list |
|  | Installation guide 501496_OTe 18220-240350 PC |
|  | CAD data 3-dim 377015_OTe 18-25 PC -cable clamp |
|  | CAD data 3-dim 377016_OTe 18-25 PC -housing |
|  | CAD data 3-dim 377017_OTe 18-25 PC -housing with cable clamp |

LOGISTICAL DATA

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|-------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899105348 | OTe 18/220...240/350 PC | Shipping carton box 20 | 284 mm x 207 mm x 100 mm | 5.88 dm ³ | 2478.00 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.