

## OTe 18/220...240/500 PC

OPTOTRONIC Phase-cut OTE | Compact constant current LED driver – Dimmable



### Areas of application

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

### Product family benefits

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

### Product family features

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



## Technical data

### Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V <sup>1)</sup>
Total harmonic distortion	15 %
Power factor $\lambda$	0.95/0.90 <sup>2)</sup>
ECG efficiency	86 % <sup>3)</sup>
Device power loss	3.0 W <sup>4)</sup>
Inrush current	5 A <sup>5)</sup>
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	18...36 V <sup>6)</sup>
U-OUT (working voltage)	60 V
Nominal output current	500 mA <sup>7)</sup>
Output current tolerance	±10 %
Output ripple current (100 Hz)	< 35 % <sup>8)</sup>
Output PSTLM	≤1
Output SVM	≤0.6
Nominal output power	18 W <sup>9)</sup>
Galvanic isolation	SELV

<sup>1)</sup> Permitted voltage range

<sup>2)</sup> Full load at 230 V/Minimum load at 230 V

<sup>3)</sup> At full load and 230 V

<sup>4)</sup> Maximum

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

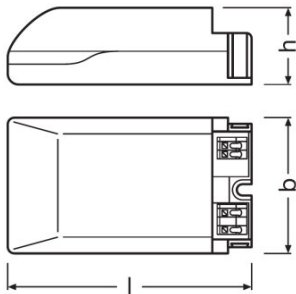
<sup>6)</sup> Maximum <48 V

<sup>7)</sup> ±10%

<sup>8)</sup> Typical

<sup>9)</sup> Partial load 9...18 W

Dimensions & weight



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

<sup>1)</sup> Flexible / Solid leads

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-20...+55 °C
Maximum temperature at tc test point	75 °C <sup>1)</sup>
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-25...75 °C
Permitted rel. humidity during operation	5...85 % <sup>2)</sup>

<sup>1)</sup> Maximum at the Tc-point

<sup>2)</sup> Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h <sup>1)</sup>
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<sup>1)</sup> At  $T_{case} = 70^{\circ}C$  at  $T_c$  point / 10% failure rate

## Capabilities

<b>Dimmable</b>	Yes
<b>Dimming interface</b>	Phase Cut <sup>1)</sup>
<b>Dimming range</b>	10...100 %
<b>Dimming method</b>	Amplitude Modulation
<b>Overheating protection</b>	Automatic reversible
<b>Overload protection</b>	Automatic reversible
<b>Short-circuit protection</b>	Automatic reversible
<b>No-load proof</b>	Yes
<b>Max. cable length to lamp/LED module</b>	2.0 m
<b>Suitable for fixtures with prot. class</b>	I / II
<b>Type of connection, output side</b>	Push terminal

<sup>1)</sup> Leading edge / Trailing edge








## Certificates & standards

<b>Approval marks – approval</b>	CE / ENEC 10 / VDE / CB
<b>Standards</b>	Acc. to IEC 61347/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
<b>Protection class</b>	II
<b>Type of protection</b>	IP20

## Logistical data

<b>Commodity code</b>	850440829000
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## Download Data

File	
 Certificates OT EMC 40038482 060720	
 Certificates OT ENEC 40038447 031120	
 Certificates 503096_CB report OTe 25 700 PC - OTe 18 350 PC - OTe 18 500	
 Declarations of conformity OTE PC CE 3365230 051119	
 Installation/Operation notice OT PC dimmer list (EN)	
 Installation guide 501495_OTe 18220-240500 PC	
 CAD data 3-dim 377015_OTe 18-25 PC -cable clamp	

## Product datasheet



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
4052899105362	OTe 18/220...240/500 PC	Shipping carton box 20	284 mm x 207 mm x 100 mm	5.88 dm <sup>3</sup>	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.