

## PRODUCT DATASHEET

### OTe 10/220...240/700 PC

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



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#### AREAS OF APPLICATION

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

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#### PRODUCT BENEFITS

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

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#### PRODUCT FEATURES

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

**TECHNICAL DATA**

Electrical data

<b>Nominal voltage</b>	220...240 V
<b>Mains frequency</b>	50...60 Hz
<b>Input voltage AC</b>	198...264 V <sup>1)</sup>
<b>Total harmonic distortion</b>	< 20 %
<b>Power factor λ</b>	0.95/0.90 <sup>2)</sup>
<b>ECG efficiency</b>	79 % <sup>3)</sup>
<b>Device power loss</b>	2.8 W <sup>4)</sup>
<b>Inrush current</b>	5 A <sup>5)</sup>
<b>Max. ECG no. on circuit breaker 10 A (B)</b>	101
<b>Max. ECG no. on circuit breaker 16 A (B)</b>	160
<b>Max. ECG no. on circuit breaker 25 A (B)</b>	-
<b>Surge capability (L/N-Ground)</b>	1 kV
<b>Surge capability (L-N)</b>	1 kV
<b>Nominal output voltage</b>	7...14 V
<b>U-OUT (working voltage)</b>	25 V
<b>Nominal output current</b>	700 mA <sup>6)</sup>
<b>Output current tolerance</b>	±10 %
<b>Output ripple current (100 Hz)</b>	35 %
<b>Nominal output power</b>	10 W <sup>7)</sup>
<b>Galvanic isolation</b>	SELV
<b>Galvanic isolation primary/secondary</b>	3.04 kV

<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

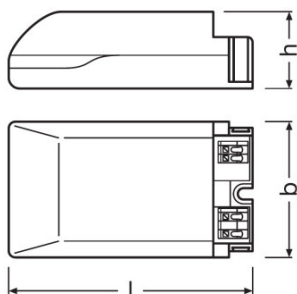
<sup>4)</sup> Maximum

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

<sup>6)</sup> ±10%

<sup>7)</sup> Partial load 5...10 W

Dimensions & weight



<b>Length</b>	95.0 mm
<b>Width</b>	53.0 mm
<b>Height</b>	25.0 mm
<b>Mounting hole spacing, length</b>	-
<b>Product weight</b>	81.00 g
<b>Cable cross-section, input side</b>	0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Wire preparation length, input side</b>	8.0...9.0 mm
<b>Wire preparation length, output side</b>	8.0...9.0 mm

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

Colors & materials

<b>Casing material</b>	Plastic
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Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+55 °C
<b>Maximum temperature at tc test point</b>	80 °C <sup>1)</sup>
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Permitted rel. humidity during operation</b>	5...85 %

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

Lifespan

<b>ECG lifetime</b>	50000 h <sup>1)</sup>
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<sup>1)</sup> At T<sub>case</sub> = 70°C at T<sub>c</sub> point / 10% failure rate

Additional product data

<b>Encapsulated</b>	No
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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 / Pulse Width 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> Trailing edge / Leading edge










### Certificates & standards

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

### Logistical data

<b>Temperature range at storage</b>	-25...75 °C
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### DOWNLOAD DATA

File	
	Product Datasheet 496532_OT Technical DS OTe 10 700 PC
	Certificates VDE ENEC Certificate 40038447
	Certificates VDE EMC Certificate 40038482
	Certificates 496535_CB report OTe 10 700 PC and OTe 13 350 PC
	Declarations of conformity EU Declaration of Conformity 3365230
	Installation/Operation notice 544631_OT PC dimmer list
	Installation guide 501498_OTe 10220-240700 PC
	CAD data 3-dim 377012_OTe 10-13 PC -cable clamp
	CAD data 3-dim 377013_OTe 10-13 PC -housing



CAD data 3-dim  
377014\_OTe 10-13 PC -housing with cable clamp

**LOGISTICAL DATA**

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899105300	OTe 10/220...240/700 PC	Shipping carton box 20	284 mm x 207 mm x 90 mm	5.29 dm <sup>3</sup>	2270.00 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.