

PRODUCT DATASHEET

OTe 10/220...240/700 PC

OPTOTRONIC® Phase-cut OTE | Compact constant current LED drivers



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 wattage	10.00 W
Nominal output power	10 W ¹⁾
Nominal voltage	220...240 V
Nominal output voltage	7...14 V
Input voltage AC	198...264 V ²⁾
U-OUT (working voltage)	25 V
Nominal output current	700 mA ³⁾
Inrush current	5 A ⁴⁾
Output current tolerance	±10 %
Output ripple current (100 Hz)	35 % ⁵⁾
Mains frequency	50/60 Hz
Total harmonic distortion	< 20 %
Power factor λ	0.95 ⁶⁾
ECG efficiency	79 % ⁷⁾
Device power loss	2.8 W ⁸⁾
Max. ECG no. on circuit breaker 10 A (B)	101
Max. ECG no. on circuit breaker 16 A (B)	160
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
Flickering metric (Pst LM)	≤1

1) Partial load 5...10 W

2) Permitted voltage range

3) ±10%

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

5) Typical

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

7) At full load and 230 V

8) Maximum

Photometrical data

Flickering metric (Pst LM)	≤1
Stroboscope effect metric (SVM)	≤1.0

Dimensions & Weight

Length	95.00 mm
Width	53.00 mm
Height	25.00 mm
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
Product weight	81.00 g

¹⁾ Flexible / Solid leads

Colors & materials

Casing material	Plastic
Body material	Plastic

Temperatures & operating conditions

Ambient temperature range	-20...+55 °C
Maximum temperature at tc test point	80 °C ¹⁾
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5...85 % ²⁾

¹⁾ Maximum at the T_c-point

²⁾ Maximum 56 days/year at 85 %

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 %
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

1) Trailing edge / Leading 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
------------------------------	-------------

Accessories Optional

Product image	Product name	EAN
	OT CABLE CLAMP E-STYLE	4052899167896

DOWNLOAD DATA

Documents and certificates	Document name
 User instruction / safety instructions	544631_OT PC dimmer list
 User instruction / safety instructions	501498_OTe 10/220-240/700 PC
 Declarations of conformity	EU Declaration of Conformity 3365230
 Certificates	VDE ENEC Certificate 40038447
 Certificates	VDE EMC Certificate 40038482
 Certificates	496535_CB report OTe 10 700 PC and OTe 13 350 PC

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899105300	Unpacked 1		100.00 g	
4052899105317	Shipping box 20	284 mm x 207 mm x 90 mm	2270.00 g	5.29 dm ³

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.