PRODUCT DATASHEET
OTe 18/220…240/500 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

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TECHNICAL DATA

Electrical data

Nominal wattage	18.00 W
Nominal output power	18 W [1)]
Nominal voltage	220…240 V
Nominal output voltage	18…36 V [2)]
Input voltage AC	198…264 V [3)]
U-OUT (working voltage)	60 V
Nominal output current	500 mA [4)]
Inrush current	5 A [5)]
Output current tolerance	10 %
Output ripple current (100 Hz)	< 35 % [6)]
Mains frequency	50/60 Hz
Maximum total harmonic distortion	15 %
Power factor λ	0.95 [7)]
ECG efficiency	86 % [8)]
Device power loss	3,0 W [9)]
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
Galvanic isolation	SELV
Flickering metric (Pst LM)	≤1

1) Partial load 9…18 W
2) Maximum < 48 V
3) Permitted voltage range
4) ±10%
5) t_{width} = 100 µs (measured at 50 % I_{peak})
6) Typical
7) Full load at 230 V/Minimum load at 230 V
8) At full load and 230 V
9) Maximum

Photometrical data

Flickering metric (Pst LM)	≤1
Stroboscope effect metric (SVM)	≤0.6

Dimensions & Weight

Length	95.00 mm
Width	53.00 mm

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Height	30.00 mm
Cable cross-section, input side	0.75…1.5 mm² [1]
Cable cross-section, output side	0.5…1.5 mm² [1]
Wire preparation length, input side	8.0…9.0 mm
Wire preparation length, output side	8.0…9.0 mm
Product weight	93.00 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	75 °C [1]
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5…85 % [2]

1) Maximum at the Tc-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) Leading edge / Trailing edge

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Certificates & Standards

Approval marks – approval	CE / ENEC 10 / VDE / CB
Standards	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
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
PDF	User instruction / safety instructions	544631_OT PC dimmer list
PDF	User instruction / safety instructions	501495_OTe 18/220-240/500 PC
PDF	Declarations of conformity	EU Declaration of Conformity 3365230
PDF	Certificates	VDE EMC Certificate 40038482
PDF	Certificates	503096_CB report OTe 25 700 PC - OTe 18 350 PC - OTe 18 500
PDF	Certificates	VDE ENEC Certificate 40038447

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899105362	Unpacked 1		110.00 g	
4052899105379	Shipping box 20	284 mm x 207 mm x 100 mm	2338.00 g	5.88 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.

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