

OTe 50/220...240/1A4 CS

OPTOTRONIC ECO | Compact constant current LED driver – Non dimmable



Product family features

- Supply voltage: 220...240 V
- Line frequency: 50 Hz | 60 Hz
- Line voltage: 198...264 V
- According to EN 61347-1, 61347-2-13, 62384
- RI suppression: to EN 55015/CISPR 15
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 50,000 h
- Independent connection via through-looping (depending on version of product)

Product family benefits

- Versatile scope of application due to output power range of up to 54 W
- Efficient and reliable

Areas of application

- Suitable for use in luminaires with flexible current setting (Tri-Tap)
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II
- Suitable for downlights, spotlights and LED panels
- Independent mounting via Cable Clamp Kit possible



Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V ¹⁾
Total harmonic distortion	< 20 %
Power factor λ	0.95 ²⁾
Efficiency in full-load	87 % ³⁾
Device power loss	7.5 W ⁴⁾
Inrush current	16 A ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	15
Max. ECG no. on circuit breaker 16 A (B)	25
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 ⁶⁾
U-OUT (working voltage)	50 V
Nominal output current	1150 / 1250 / 1400 mA ⁷⁾
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 25 % ⁸⁾
Nominal output power	50 W ⁹⁾
Maximum output power	50 W
Galvanic isolation	SELV

¹⁾ Permitted voltage range

²⁾ Full load at 230 V/50 Hz

³⁾ at 230 V, 50 Hz

⁴⁾ At 230 V

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

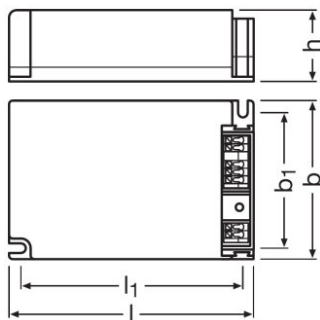
⁶⁾ Maximum 50 V

⁷⁾ ±5%

⁸⁾ Ripple average at 100 Hz

⁹⁾ Partial load 21...50 W

Dimensions & weight



Mounting hole spacing, length	94.0 mm
Mounting hole spacing, width	58.0 mm
Product weight	183.00 g
Cable cross-section, input side	0.5...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm
Length	103.0 mm
Width	67.0 mm
Height	29.5 mm

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	80 °C ¹⁾
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-25...75 °C
Permitted rel. humidity during operation	5...85 % ²⁾

¹⁾ Maximum at the Tc-point

²⁾ Non-condensing

Lifespan

ECG lifetime	50000 / 35000 h ¹⁾
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¹⁾ T_c = 75°C, with max. 10% failure rate / T_c = 80°C, with max. 10% failure rate

Expected Lifetime

Product name				
OTe 50/220...240/1A4 CS	ECG ambient temperature [ta]	-	-	-
	Temperature at tc-point [°C]	75	80	-
	Lifetime [h]	50000	35000	-

Additional product data

Successor EAN	4052899999565
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Capabilities

Dimmable	No
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Intended for no-load operation	No
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

Programming

Programming device	DIPswitch
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Certificates & standards

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

Logistical data

Commodity code	850440829000
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Environmental information

Date of Declaration	10-11-2021
Primary Article Identifier	4052899917583
Candidate List Substance 1	Lead

Product datasheet

CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	4fd368fe-0341-4a79-98a1-e1add0713b34

Download Data

File	
 Certificates VDE ENEC Certificate 40038384	
 Declarations of conformity OTe CS CE 3365227 210921	
 CAD data 3-dim 351094_OTe 50 CS-cable clamp-3D drawing	
 CAD data 3-dim 351095_OTe 50 CS-housing-3D drawing	
 CAD data 3-dim 351096_OTe 50 CS-housing with cable clamp-3D drawing	

Ecodesign regulation information:

- Intended for use with LED modules.
The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899917583	OTe 50/220...240/1A4 CS	Shipping carton box 20	357 mm x 222 mm x 96 mm	7.61 dm ³	3911.00 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.

Accessories Optional

Product datasheet

Product description	Accessory name	Accessory code
OTe 50/220...240/1A4 CS	OT CABLE CLAMP B-STYLE	▶ 4052899077881
OTe 50/220...240/1A4 CS	OT CABLE CLAMP B-STYLE TL	▶ 4052899948051

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.