

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

OPTOTRONIC ECO | Compact Constant Current LED Drivers – Non dimmable



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

Product family benefits

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

Product family features

- Supply voltage: 220...240 V
- Line frequency: 50 Hz | 60 Hz
- Line voltage: 198...264 V
- Safety according to EN 61347-1, 61347-2-13, 62384
- RI suppression according to EN 55015:2007+A1:2007/CDN
- 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)

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⁾
ECG efficiency	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 %
Nominal output power	50 W ⁸⁾
Galvanic isolation	SELV

¹⁾ Permitted voltage range

²⁾ Full load at 230 V/50 Hz

³⁾ At full load and 230 V

⁴⁾ At 230 V

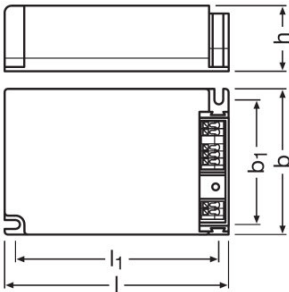
⁵⁾ $t_{\text{width}} = 100 \mu\text{s}$ (measured at 50 % I_{peak})

⁶⁾ Maximum 50 V

⁷⁾ ±5%

⁸⁾ 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
Permitted rel. humidity during operation	5...85 %

¹⁾ Maximum at the T_c-point

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

Product datasheet

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

Encapsulated	No
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Capabilities

Dimmable	No
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
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



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

Temperature range at storage	-25...75 °C
Commodity code	850440829000

Download Data

File
 Certificates VDE ENEC Certificate 40038384
 Certificates VDE EMC Certificate 40038482

Product datasheet

	Declarations of conformity 496991_EC DoC OTe CS
	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

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.

Disclaimer

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