

## OPTOTRONIC ECO

Compact constant current LED driver – 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
- 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 datasheet

## Technical data

### Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor $\lambda$
OTe 50/220...240/1A4 CS	220...240 V	50/60 Hz	198...264 V <sup>1)</sup>	< 20 %	0.95 <sup>2)</sup>
Product description	Efficiency in full-load	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)
OTe 50/220...240/1A4 CS	87 % <sup>3)</sup>	7.5 W <sup>4)</sup>	16 A <sup>5)</sup>	15	25
Product description	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage	
OTe 50/220...240/1A4 CS	-	1 kV	1 kV	18...36 V <sup>6)</sup>	
Product description	U-OUT (working voltage)	Nominal output current	Output current tolerance	Output ripple current (100 Hz)	Nominal output power
OTe 50/220...240/1A4 CS	50 V	1150 / 1250 / 1400 mA <sup>7)</sup>	±5 %	< 25 % <sup>8)</sup>	50 W <sup>9)</sup>
Product description	Maximum output power	Galvanic isolation			
OTe 50/220...240/1A4 CS	50 W	SELV			

<sup>1)</sup> Permitted voltage range

<sup>2)</sup> Full load at 230 V/50 Hz

<sup>3)</sup> at 230 V, 50 Hz

<sup>4)</sup> At 230 V

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

<sup>6)</sup> Maximum 50 V

<sup>7)</sup> ±5%

<sup>8)</sup> Ripple average at 100 Hz

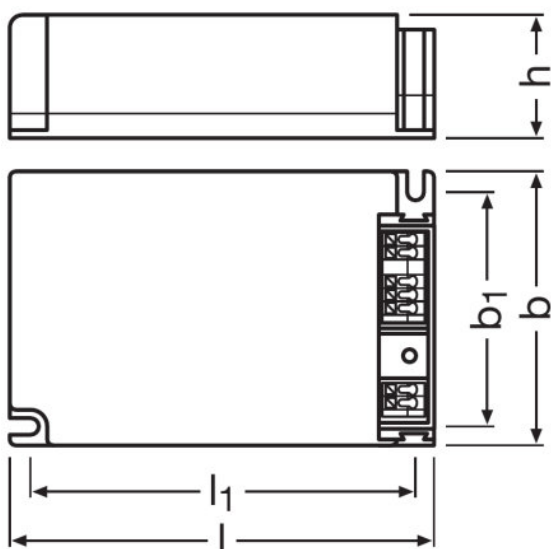
<sup>9)</sup> Partial load 21...50 W

### Dimensions & weight

Product description	Mounting hole spacing, length	Mounting hole spacing, width	Product weight	Cable cross-section, input side	Cable cross-section, output side
OTe 50/220...240/1A4 CS	94.0 mm	58.0 mm	183.00 g	0.5...1.5 mm <sup>2</sup>	0.5...1.5 mm <sup>2</sup>
Product description	Wire preparation length, input side	Wire preparation length, output side	Width	Length	Height
OTe 50/220...240/1A4 CS	8.0...9.0 mm	8.0...9.0 mm	67.0 mm	103.0 mm	29.5 mm

## Product family datasheet

### Product line drawing



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

### Colors & materials

Product description	Casing material
OTe 50/220...240/1A4 CS	Plastic

### Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
OTe 50/220...240/1A4 CS	-20...+50 °C	80 °C <sup>1)</sup>	110 °C	-25...75 °C

Product description	Permitted rel. humidity during operation
OTe 50/220...240/1A4 CS	5...85 % <sup>2)</sup>

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

<sup>2)</sup> Non-condensing

### Lifespan

Product description	ECG lifetime
OTe 50/220...240/1A4 CS	50000 / 35000 h <sup>1)</sup>

## Product family datasheet

1)  $T_c = 75^\circ\text{C}$ , with max. 10% failure rate /  $T_c = 80^\circ\text{C}$ , 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

Product description	Successor EAN
OTe 50/220...240/1A4 CS	405289999565

### Capabilities

Product description	Dimmable	Overheating protection	Overload protection
OTe 50/220...240/1A4 CS	No	Automatic reversible	Automatic reversible

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Max. cable length to lamp/LED module
OTe 50/220...240/1A4 CS	Automatic reversible	Yes	No	2.0 m

Product description	Suitable for fixtures with prot. class	Type of connection, output side
OTe 50/220...240/1A4 CS	I / II	Push terminal

### Programming

Product description	Programming device
OTe 50/220...240/1A4 CS	DIPswitch

### Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection
OTe 50/220...240/1A4 CS	ENEC 10 / VDE / CE	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	IP20

## Product family datasheet

### Logistical data

Product description	Commodity code
OTe 50/220...240/1A4 CS	850440829000

### Environmental information

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OTe 50/220...240/1A4 CS	23-12-2021	4052899917583	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OTe 50/220...240/1A4 CS	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	4fd368fe-0341-4a79-98a1-e1add0713b34






### Application advice

For more detailed application information and graphics please see product datasheet.

### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### 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

## Product family datasheet

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### 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.

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### 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 <sup>3</sup>	3911.00 g

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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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### Accessories Optional

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

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### Disclaimer

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

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