

PRODUCT FAMILY DATASHEET 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
- 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

Product description	Nominal voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ	ECG efficiency	Device power loss
OTe 35/220...240/700 CS	220...240 V	50...60 Hz	195...264 V ¹⁾	< 20 %	0.95 ²⁾	87 % ³⁾	5.3 W ⁴⁾
OTe 35/220...240/1A0 CS	220...240 V	50...60 Hz	195...264 V ¹⁾	< 20 %	0.95 ²⁾	87 % ³⁾	5.5 W ⁴⁾
OTe 35/220...240/1A0 CS S	220...240 V	50...60 Hz	195...264 V ¹⁾	< 20 %	0.95 ²⁾	87 % ³⁾	5.5 W ⁴⁾
OTe 50/220...240/1A4 CS	220...240 V	50...60 Hz	198...264 V ¹⁾	< 20 %	0.95 ²⁾	87 % ³⁾	7.5 W ⁴⁾

Product description	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)
OTe 35/220...240/700 CS	16 A ⁵⁾	15	25	-	1 kV
OTe 35/220...240/1A0 CS	16 A ⁵⁾	15	25	-	1 kV
OTe 35/220...240/1A0 CS S	16 A ⁵⁾	28	44	-	1 kV
OTe 50/220...240/1A4 CS	16 A ⁵⁾	15	25	-	1 kV

Product description	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	Nominal output current	Nominal output power
OTe 35/220...240/700 CS	1 kV	27...54 V ⁶⁾	60 V	500 / 600 / 700 mA ⁷⁾	35 W ⁸⁾
OTe 35/220...240/1A0 CS	1 kV	17...34 V ⁹⁾	50 V	800 / 925 / 1050 mA ⁷⁾	36 W ¹⁰⁾
OTe 35/220...240/1A0 CS S	1 kV	17...34 V ⁹⁾	50 V	800 / 925 / 1050 mA ⁷⁾	36 W ¹⁰⁾
OTe 50/220...240/1A4 CS	1 kV	18...36 V ⁹⁾	50 V	1150 / 1250 / 1400 mA ⁷⁾	50 W ¹¹⁾

¹⁾ Permitted voltage range

²⁾ Full load at 230 V/50 Hz

³⁾ At full load and 230 V

⁴⁾ At 230 V

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

⁶⁾ Maximum 60 V

⁷⁾ $\pm 5\%$

⁸⁾ Partial load 13...37 W

⁹⁾ Maximum 50 V

¹⁰⁾ Partial load 14...36 W

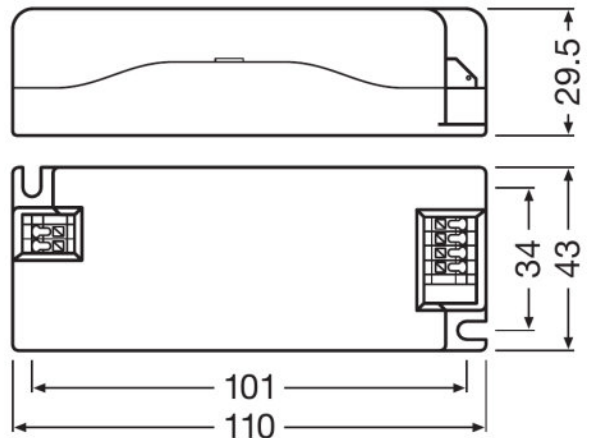
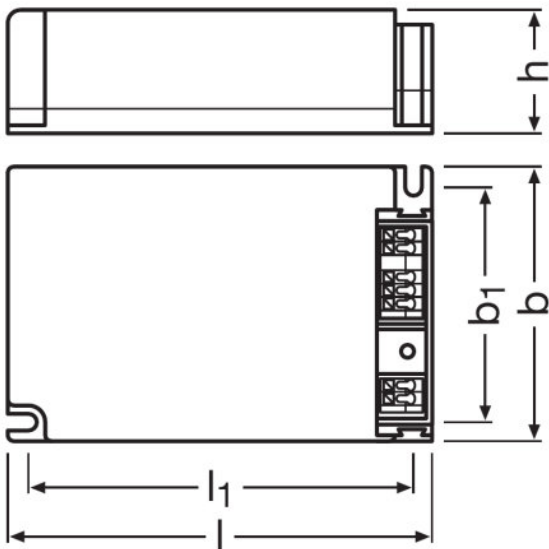
¹¹⁾ Partial load 21...50 W

Dimensions & weight

Product description	Length	Width	Height	Mounting hole spacing, length	Mounting hole spacing, width	Cable cross-section, input side
OTe 35/220...240/700 CS	103.0 mm	67.0 mm	29.5 mm	94.0 mm	58.0 mm	0.5...1.5 mm ²
OTe 35/220...240/1A0 CS	103.0 mm	67.0 mm	29.5 mm	94.0 mm	58.0 mm	0.5...1.5 mm ²
OTe 35/220...240/1A0 CS S	110.0 mm	43.0 mm	29.5 mm	101.0 mm	34.0 mm	0.5...1.5 mm ²
OTe 50/220...240/1A4 CS	103.0 mm	67.0 mm	29.5 mm	94.0 mm	58.0 mm	0.5...1.5 mm ²

Product description	Cable cross-section, output side	Wire preparation length, input side	Product weight	Wire preparation length, output side
OTe 35/220...240/700 CS	0.5...1.5 mm ²	8.0...9.0 mm	139.50 g	8.0...9.0 mm
OTe 35/220...240/1A0 CS	0.5...1.5 mm ²	8.0...9.0 mm	165.00 g	8.0...9.0 mm
OTe 35/220...240/1A0 CS S	0.5...1.5 mm ²	8.0...9.0 mm	135.00 g	8.0...9.0 mm
OTe 50/220...240/1A4 CS	0.5...1.5 mm ²	8.0...9.0 mm	183.00 g	8.0...9.0 mm

Product line drawing



OTe 35/220...240/700 CS, OTe 35/220...240/1A0 CS, OTe 50/220...240/1A4 CS

OTe 35/220...240/1A0 CS S

Colors & materials

Product description	Casing material
OTe 35/220...240/700 CS	Plastic
OTe 35/220...240/1A0 CS	Plastic
OTe 35/220...240/1A0 CS S	Plastic
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	Permitted rel. humidity during operation
OTe 35/220...240/700 CS	-20...+50 °C	75 °C ¹⁾	110 °C	5...85 % ²⁾
OTe 35/220...240/1A0 CS	-20...+50 °C	80 °C ¹⁾	110 °C	5...85 % ²⁾
OTe 35/220...240/1A0 CS S	-20...+50 °C	80 °C ¹⁾	110 °C	5...85 % ²⁾
OTe 50/220...240/1A4 CS	-20...+50 °C	80 °C ¹⁾	110 °C	5...85 % ²⁾

¹⁾ Maximum at the T_c-point

²⁾ Non-condensing

Lifespan

Product description	ECG lifetime
OTe 35/220...240/700 CS	50000 / 35000 h ¹⁾
OTe 35/220...240/1A0 CS	50000 / 35000 h ²⁾
OTe 35/220...240/1A0 CS S	50000 h ³⁾
OTe 50/220...240/1A4 CS	50000 / 35000 h ²⁾

¹⁾ T_c = 70°C, with max. 10% failure rate

²⁾ T_c = 75°C, with max. 10% failure rate

³⁾ At T_{case} = 75°C at T_c point / 10% failure rate

Expected Lifetime

Product name				
OTe 35/220...240/700 CS	ECG ambient temperature [ta]	-	-	-
	Temperature at tc-point [°C]	70	75	-
	Lifetime [h]	50000	35000	-
OTe 35/220...240/1A0 CS	ECG ambient temperature [ta]	-	-	-
	Temperature at tc-point [°C]	75	80	-
	Lifetime [h]	50000	35000	-
OTe 35/220...240/1A0 CS S	ECG ambient temperature [ta]	-	-	-
	Temperature at tc-point [°C]	75	80	-
	Lifetime [h]	50000	35000	-
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	Encapsulated
OTe 35/220...240/700 CS	No
OTe 35/220...240/1A0 CS	No
OTe 35/220...240/1A0 CS S	No
OTe 50/220...240/1A4 CS	No

Capabilities

Product description	Type of connection, output side	Overheating protection	Overload protection
OTe 35/220...240/700 CS	Push terminal		
OTe 35/220...240/1A0 CS	Push terminal	Automatic reversible	Automatic reversible
OTe 35/220...240/1A0 CS S	Push terminal	Automatic reversible	Automatic reversible
OTe 50/220...240/1A4 CS	Push terminal	Automatic reversible	Automatic reversible

Certificates & standards

Product description	Type of protection
OTe 35/220...240/700 CS	IP20
OTe 35/220...240/1A0 CS	IP20
OTe 35/220...240/1A0 CS S	IP20
OTe 50/220...240/1A4 CS	IP20

Logistical data

Product description	Temperature range at storage
OTe 35/220...240/700 CS	-25...75 °C
OTe 35/220...240/1A0 CS	-25...75 °C
OTe 35/220...240/1A0 CS S	-25...75 °C
OTe 50/220...240/1A4 CS	-25...75 °C

APPLICATION ADVICE

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








SALES AND TECHNICAL SUPPORT

Sales and Technical Support www.ledvance.com

COUNTRY SPECIFIC INFORMATION

Product description	Product code	METEL-Code	SEG-No.	STK number	UK Org
OTe 35/220...240/700 CS	4052899917569	-	-	4030150	-
OTe 35/220...240/1A0 CS	4052899917668	-	7980705	-	-
OTe 50/220...240/1A4 CS	4052899917583	-	7980709	-	-

DOWNLOAD DATA

File
 Certificates VDE ENEC Certificate 40038384
 Certificates VDE EMC Certificate 40038482
 Declarations of conformity OTe CS CE 3365227 121119
 CAD data 3-dim 351090_OTe 35 CS-cable clamp-3D drawing
 CAD data 3-dim 351091_OTe 35 CS-housing-3D drawing
 CAD data 3-dim 351093_OTe 35 CS S-housing-3D drawing
 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	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899917620	Shipping carton box 20	357 mm x 222 mm x 96 mm	3041.00 g	7.61 dm ³
4052899917682	Shipping carton box 20	357 mm x 222 mm x 96 mm	3551.00 g	7.61 dm ³
4052899917675	Shipping carton box 20	239 mm x 232 mm x 93 mm	2974.00 g	5.16 dm ³
4052899917644	Shipping carton box 20	357 mm x 222 mm x 96 mm	3911.00 g	7.61 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.

ACCESSORIES OPTIONAL

Product description	Accessory name	Accessory code
OTe 35/220...240/700 CS	OPTOTRONIC Cable Clamp, B-STYLE	▶ 4052899077898
OTe 35/220...240/700 CS	OPTOTRONIC Cable Clamp, B-STYLE TL	▶ 4052899268227
OTe 35/220...240/1A0 CS	OPTOTRONIC Cable Clamp, B-STYLE	▶ 4052899077898
OTe 35/220...240/1A0 CS	OPTOTRONIC Cable Clamp, B-STYLE TL	▶ 4052899268227
OTe 50/220...240/1A4 CS	OPTOTRONIC Cable Clamp, B-STYLE	▶ 4052899077898
OTe 50/220...240/1A4 CS	OPTOTRONIC Cable Clamp, B-STYLE TL	▶ 4052899268227

DISCLAIMER

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