

PRODUCT FAMILY DATASHEET OPTOTRONIC FIT CS

Compact Constant Current LED Drivers – Non dimmable



AREAS OF APPLICATION

- Suitable for downlights, spotlights and LED panels
- Suitable for luminaires of protection classes I and II

PRODUCT FAMILY BENEFITS

- High quality of light thanks to low output ripple current
- High flexibility due to four different output currents
- Small housing for flexible luminaire designs
- High efficiency

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
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 50,000 h (temperature at $T_c = 70\text{ }^\circ\text{C}$, max. 10 % failure rate)
- Cable clamp kit for independent mounting

TECHNICAL DATA

Electrical data

Product description	Nominal voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ	ECG efficiency	Device power loss
OT FIT 20/220...240/500 CS	220...240 V	50...60 Hz	198...264 V	< 10 % ¹⁾	0.98	87 % ²⁾	3.0 W ³⁾
OT FIT 30/220...240/700 CS	220...240 V	50...60 Hz	198...264 V ⁵⁾	< 10 % ¹⁾	0.98	89 % ²⁾	3.5 W ⁶⁾
OT FIT 40/220...240/1A0 CS	220...240 V	50...60 Hz	198...264 V	< 10 % ¹⁾	0.98	90 % ²⁾	4.9 W ⁷⁾
OT FIT 75/220-240/1A6 CS	220...240 V	50...60 Hz	198...264 V	< 10 % ¹⁾	0.98	91 % ²⁾	8.6 W ⁸⁾

Product description	Protective conductor current	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)
OT FIT 20/220...240/500 CS	<0.7 mA	< 16 A ⁴⁾	32	50	-
OT FIT 30/220...240/700 CS	<0.7 mA	< 16 A ⁴⁾	16	25	-
OT FIT 40/220...240/1A0 CS	<0.7 mA	< 16 A ⁴⁾	16	25	-
OT FIT 75/220-240/1A6 CS	<0.7 mA	< 40 A ⁹⁾	10	16	

Product description	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	Nominal output current
OT FIT 20/220...240/500 CS	2 kV	1 kV	25...42 V	60 V	250 / 350 / 450 / 500 mA
OT FIT 30/220...240/700 CS	2 kV	1 kV	23...42 V	60 V	500 / 600 / 650 / 700 mA
OT FIT 40/220...240/1A0 CS	2 kV	1 kV	25...42 V	60 V	800 / 900 / 1050 / 950 mA
OT FIT 75/220-240/1A6 CS	2 kV	1 kV	27...57 / 27...42 V ¹⁰⁾	70 V	1200 / 1350 / 1500 / 1650 mA

Product description	Nominal output power
OT FIT 20/220...240/500 CS	6.5...21 W
OT FIT 30/220...240/700 CS	11.5...29.4 W
OT FIT 40/220...240/1A0 CS	20...44 W
OT FIT 75/220-240/1A6 CS	32.5...77 W

¹⁾ At full load, 230 V, 50 Hz / see graphs

²⁾ At full load and 230 V

³⁾ At 230 V, Input power 24 W max.

⁴⁾ $t_{width} = 100 \mu s$ (measured at 50 % I_{peak})

⁵⁾ Permitted voltage range

⁶⁾ At 230 V, Input power 34 W max.

⁷⁾ At 230 V, Input power 49 W max.

⁸⁾ At 230 V, Input power 85.5 W max.

⁹⁾ $t_{width} = 200 \mu s$ (measured at 50 % I_{peak})

¹⁰⁾ At output current 1200/1350 mA

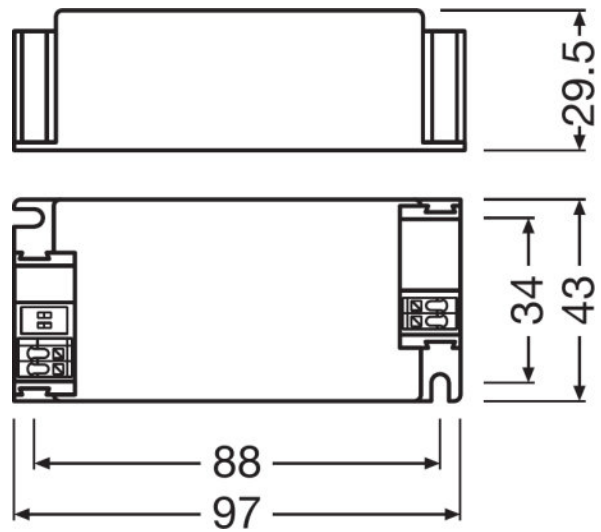
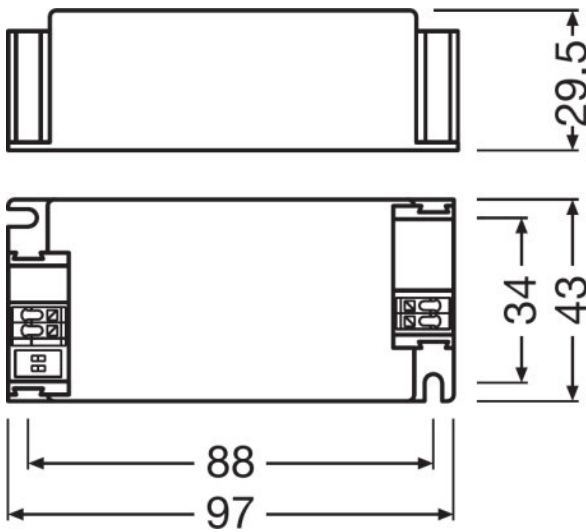
Dimensions & weight

Product description	Length	Width	Height	Mounting hole spacing, length	Mounting hole spacing, width	Cable cross-section, input side
OT FIT 20/220...240/500 CS	97.0 mm	43.0 mm	29.5 mm	88.0 mm	34.0 mm	0.5...1.5 mm ²
OT FIT 30/220...240/700 CS	97.0 mm	43.0 mm	29.5 mm	88.0 mm	34.0 mm	0.5...1.5 mm ²
OT FIT 40/220...240/1A0 CS	97.0 mm	43.0 mm	29.5 mm	88.0 mm	34.0 mm	0.5...1.5 mm ²
OT FIT 75/220-240/1A6 CS	103.0 mm	67.0 mm	29.5 mm	94.0 mm	58.0 mm	0.5...1.5 / 0.75...1.5 mm ² ¹⁾

Product description	Cable cross-section, output side	Wire preparation length, input side	Product weight	Wire preparation length, output side
OT FIT 20/220...240/500 CS	0.5...1.5 mm ²	7...8 mm	85.00 g	7...8 mm
OT FIT 30/220...240/700 CS	0.5...1.5 mm ²	7...8 mm	90.00 g	7...8 mm
OT FIT 40/220...240/1A0 CS	0.5...1.5 mm ²	7...8 mm	110.00 g	7...8 mm
OT FIT 75/220-240/1A6 CS	0.5...1.5 / 0.75...1.5 mm ² ¹⁾	7...8 mm	170.00 g	7...8 mm

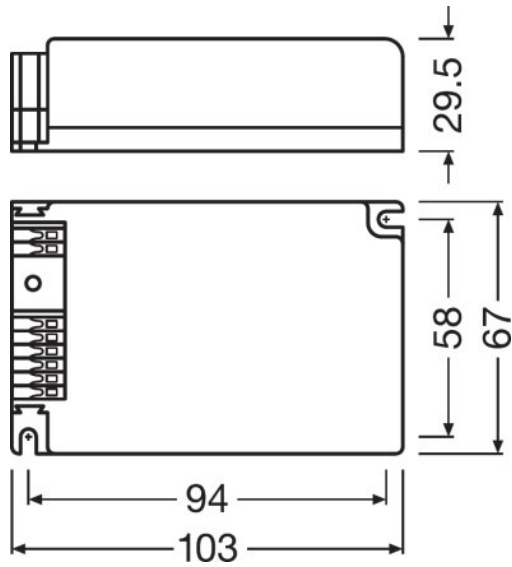
¹⁾ Solid/ Flexible Leads

Product line drawing



OT FIT 20/220...240/500 CS

OT FIT 30/220...240/700 CS, OT FIT 40/220...240/1A0 CS



OT FIT 75/220-240/1A6 CS

Colors & materials

Product description	Casing material
OT FIT 20/220...240/500 CS	Plastic
OT FIT 30/220...240/700 CS	Plastic
OT FIT 40/220...240/1A0 CS	Plastic
OT FIT 75/220-240/1A6 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
OT FIT 20/220...240/500 CS	-20...+50 °C	80 °C	110 °C	5...85 % ¹⁾
OT FIT 30/220...240/700 CS	-20...+50 °C	80 °C	110 °C	5...85 % ¹⁾
OT FIT 40/220...240/1A0 CS	-20...+50 °C	80 °C	110 °C	5...85 % ¹⁾
OT FIT 75/220-240/1A6 CS	-20...+50/-20...+45 °C	80 °C	110 °C	5...85 % ²⁾

¹⁾ Maximum 56 days/year at 85 %

²⁾ Non-condensing

Lifespan

Product description	ECG lifetime
OT FIT 20/220...240/500 CS	50000 / 30000 h ¹⁾
OT FIT 30/220...240/700 CS	50000 / 30000 h ¹⁾
OT FIT 40/220...240/1A0 CS	50000 / 30000 h ¹⁾
OT FIT 75/220-240/1A6 CS	50000 / 30000 h ¹⁾

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

Additional product data

Product description	Encapsulated
OT FIT 20/220...240/500 CS	No
OT FIT 30/220...240/700 CS	No
OT FIT 40/220...240/1A0 CS	No
OT FIT 75/220-240/1A6 CS	No

Capabilities

Product description	Overheating protection	Overload protection	Type of connection, output side
OT FIT 20/220...240/500 CS	Automatic reversible	Automatic reversible	Push terminal
OT FIT 30/220...240/700 CS	Automatic reversible	Automatic reversible	Push terminal
OT FIT 40/220...240/1A0 CS	Automatic reversible	Automatic reversible	Push terminal
OT FIT 75/220-240/1A6 CS	Automatic reversible	Automatic reversible	Push terminal

Certificates & standards

Product description	Type of protection
OT FIT 20/220...240/500 CS	IP20
OT FIT 30/220...240/700 CS	IP20
OT FIT 40/220...240/1A0 CS	IP20
OT FIT 75/220-240/1A6 CS	IP20

Logistical data

Product description	Temperature range at storage
OT FIT 20/220...240/500 CS	-20...80 °C
OT FIT 30/220...240/700 CS	-20...80 °C
OT FIT 40/220...240/1A0 CS	-20...80 °C
OT FIT 75/220-240/1A6 CS	-20...80 °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

DOWNLOAD DATA

File	
	User instruction OPTOTRONIC LED Power Supply
	User instruction OPTOTRONIC LED Power Supply
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet 730299_OT FIT 20220-240500 CS
	Certificates Certificate 2196588.02 ENEC
	Certificates CCC Certificate 2018171002002235
	Certificates CCC Certificate 2018171002002236
	Certificates OT FIT 20 30 40 CS EMC 4330577 01 221019
	Certificates OT FIT 20 30 40 CS ENEC 35 104727 221019
	Declarations of conformity 489246_DoC_OT FIT CS
	Declarations of conformity EU Declaration of Conformity 3667905
	CAD data CAD Data OT FIT 20500 CS.IGS
	CAD data CAD Data OT FIT 20500 CS.STEP
	CAD data PDF CAD Data OT FIT 20500 CS.pdf
	Product Datasheet 730300_OT FIT 30220-240700 CS
	Certificates CCC Certificate 2018171002002233
	Certificates CCC Certificate 2018171002002234
	CAD data CAD Data OT FIT 30,40220-240CS.IGS
	CAD data CAD Data OT FIT 30,40220-240CS.STEP

	CAD data PDF CAD Data OT FIT 30,40220-240CS.pdf
	Product Datasheet 730301_OT FIT 40220-2401A0 CS
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Product Datasheet OT FIT 751A6 CS
	CAD data OT FIT 751A6 CS - built in step
	CAD data PDF OT FIT 751A6 CS - built in pdf

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899435629	Shipping carton box 20	228 mm x 208 mm x 78 mm	1806.00 g	3.70 dm ³
4052899435643	Shipping carton box 20	228 mm x 208 mm x 78 mm	1906.00 g	3.70 dm ³
4052899435667	Shipping carton box 20	228 mm x 208 mm x 78 mm	2306.00 g	3.70 dm ³
405289999572	Shipping carton box 20	353 mm x 223 mm x 101 mm	3742.00 g	7.95 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.

DISCLAIMER

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