

## PRODUCT DATASHEET

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

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  $T_c = 70\text{ °C}$ , max. 10 % failure rate)
- Cable clamp kit for independent mounting

**TECHNICAL DATA**

Electrical data

Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V
Total harmonic distortion	< 10 % <sup>1)</sup>
Power factor λ	0.98
ECG efficiency	87 % <sup>2)</sup>
Device power loss	3.0 W <sup>3)</sup>
Protective conductor current	<0.7 mA
Inrush current	< 16 A <sup>4)</sup>
Max. ECG no. on circuit breaker 10 A (B)	32
Max. ECG no. on circuit breaker 16 A (B)	50
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	25...42 V
U-OUT (working voltage)	60 V
Nominal output current	250 / 350 / 450 / 500 mA
Output current tolerance	±7.5 %
Output ripple current (100 Hz)	< 5 %
Nominal output power	6.5...21 W
Galvanic isolation	SELV

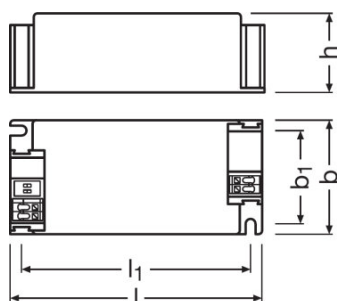
<sup>1)</sup> At full load, 230 V, 50 Hz / see graphs

<sup>2)</sup> At full load and 230 V / At 50 Hz

<sup>3)</sup> At 230 V, Input power 24 W max.

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

Dimensions & weight



Length	97.0 mm
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<b>Width</b>	43.0 mm
<b>Height</b>	29.5 mm
<b>Mounting hole spacing, length</b>	88.0 mm
<b>Mounting hole spacing, width</b>	34.0 mm
<b>Cable cross-section, input side</b>	0.5...1.5 mm <sup>2</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup>
<b>Product weight</b>	85.00 g
<b>Wire preparation length, input side</b>	7...8 mm
<b>Wire preparation length, output side</b>	7...8 mm

### Colors & materials

<b>Casing material</b>	Plastic
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### Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 °C
<b>Maximum temperature at tc test point</b>	80 °C
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Permitted rel. humidity during operation</b>	5...85 % <sup>1)</sup>

<sup>1)</sup> Maximum 56 days/year at 85 %

### Lifespan

<b>ECG lifetime</b>	50000 / 30000 h <sup>1)</sup>
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<sup>1)</sup> T<sub>c</sub> = 70°C, with max. 10% failure rate / T<sub>c</sub> = 80°C, with max. 10% failure rate

### Additional product data

<b>Encapsulated</b>	No
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### Capabilities

<b>Dimmable</b>	No
<b>Overheating protection</b>	Automatic reversible
<b>Overload protection</b>	Automatic reversible
<b>Short-circuit protection</b>	Automatic reversible
<b>No-load proof</b>	Yes
<b>Max. cable length to lamp/LED module</b>	2.0 m
<b>Suitable for fixtures with prot. class</b>	II
<b>Type of connection, output side</b>	Push terminal

### Certificates & standards















<b>Approval marks – approval</b>	CCC / CE / RCM / ENEC 05
<b>Standards</b>	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 61000-3-3/Acc. to IEC 61547

<b>Protection class</b>	II
<b>Type of protection</b>	IP20

Logistical data

<b>Temperature range at storage</b>	-20...80 °C
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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 Declaratiom 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

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899435612	Unpacked 1	- x - x -		
4052899435629	Shipping carton box 20	228 mm x 208 mm x 78 mm	1806.00 g	3.70 dm <sup>3</sup>

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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**DISCLAIMER**

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