

## OT FIT 20/220-240/500 CS S MINI

OPTOTRONIC FIT CS MINI | Compact constant current LED driver – Non dimmable



### 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 CISPR 15
- Line harmonics according to IEC 61000-3-2
- Immunity according to IEC 61547

### Product family benefits

- Small housing for flexible luminaire designs
- Higher quality of light thanks to < 3% output ripple current
- Operating temperature: up to 60 °C
- User flexibility with four different output currents from one driver
- Flexible current selection via DIP switch
- Reversible overtemperature, overload, short-circuit and open-circuit protection
- High efficiency (up to 90%)

### Areas of application

- Extra small design for downlights, spotlights and other indoor luminaires
- Suitable for luminaires of protection classes I and II
- Suitable for indoor SELV installations

## Technical data

### Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V <sup>1)</sup>
Total harmonic distortion	< 10 % <sup>2)</sup>
Power factor $\lambda$	0.95 <sup>3)</sup>
Efficiency in full-load	89 % <sup>4)</sup>
Device power loss	2.6 W <sup>5)</sup>
Inrush current	16.5 A
Max. ECG no. on circuit breaker 10 A (B)	34
Max. ECG no. on circuit breaker 10 A (C)	58
Max. ECG no. on circuit breaker 16 A (B)	56
Max. ECG no. on circuit breaker 16 A (C)	94
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	30...42 V
U-OUT (working voltage)	60 V
Nominal output current	400/450/475/500 mA <sup>6)</sup>
Output current tolerance	±7.5 %
Default output current	500 mA
Output ripple current (100 Hz)	< 3 % <sup>7)</sup>
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	12...21 W
Maximum output power	21 W
Galvanic isolation	SELV
Galvanic isolation primary/secondary	SELV
Current set	DipSwitch

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

<sup>2)</sup> At full load, 230 V, 50 Hz / see graphs

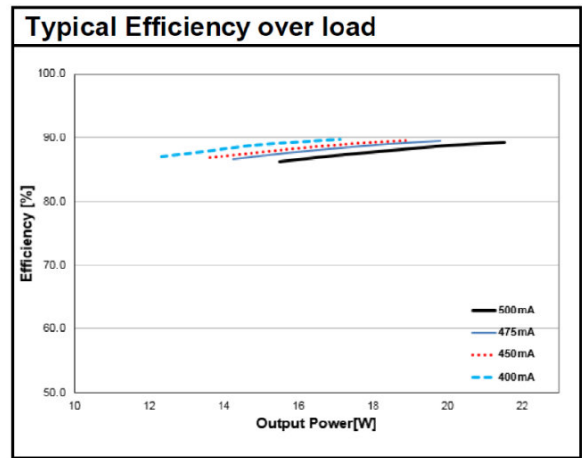
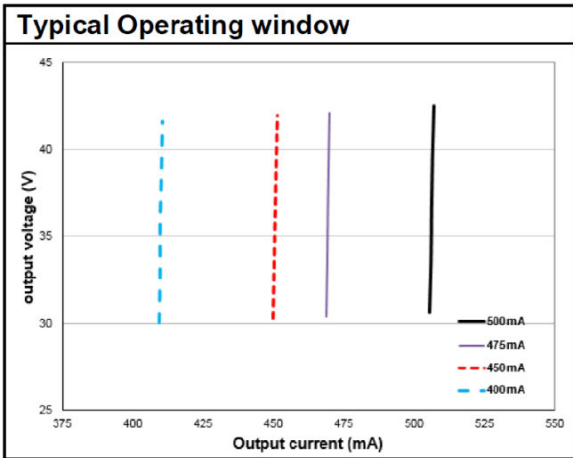
<sup>3)</sup> Full load at 230 V/50 Hz

<sup>4)</sup> at 230 V, 50 Hz

<sup>5)</sup> At 230 V, Input power 23.6 W max.

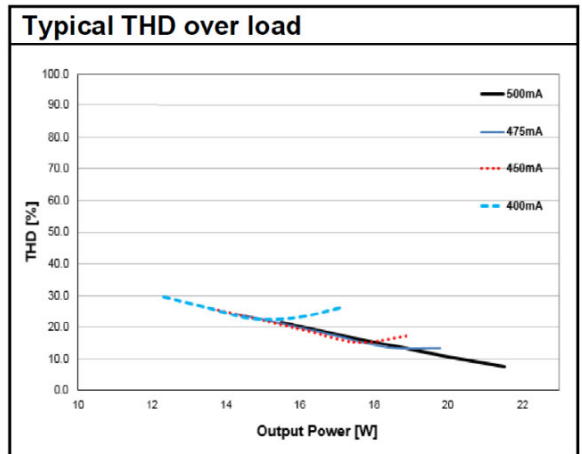
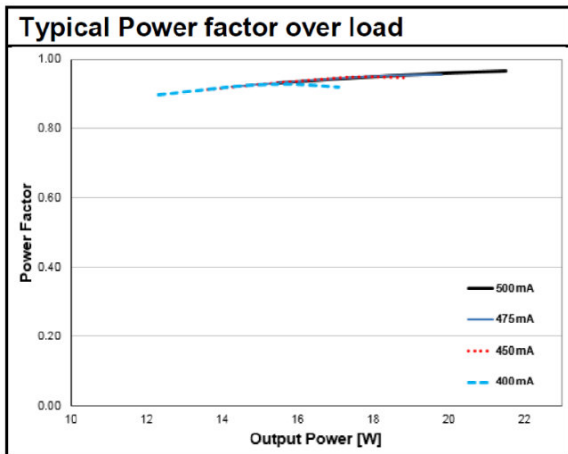
<sup>6)</sup> ±7.5%

<sup>7)</sup> Ripple average at 100 Hz



OT FIT 20220-240500 CS S MINI Operating Window

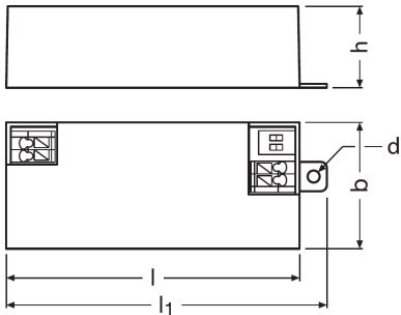
OT FIT 20220-240500 CS S MINI Typical Efficiency vs. Load (230 V 50 Hz)



OT FIT 20220-240500 CS S MINI Typical Power Factor vs. Load

OT FIT 20220-240500 CS S MINI Typical THD Vs Load

## Dimensions & weight



<b>Product weight</b>	54.00 g
<b>Cable cross-section, input side</b>	0.5...1.5 / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Wire preparation length, input side</b>	7...8 mm
<b>Wire preparation length, output side</b>	7...8 mm
<b>Length</b>	87.0 mm
<b>Width</b>	35.0 mm
<b>Height</b>	22.0 mm

<sup>1)</sup> Solid/ Flexible Leads

## Colors & materials

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

<b>Ambient temperature range</b>	-20...+55 °C
<b>Maximum temperature at tc test point</b>	80 °C <sup>1)</sup>
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Temperature range at storage</b>	-20...80 °C
<b>Permitted rel. humidity during operation</b>	5...85 % <sup>2)</sup>

<sup>1)</sup> Measured on tc point indicated on the product label.

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

## Lifespan

<b>ECG lifetime</b>	50000 h <sup>1)</sup>
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<sup>1)</sup> At maximum T<sub>c</sub> = 80°C / 10% failure rate

## Capabilities

<b>Dimmable</b>	No
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## Product datasheet

Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Intended for no-load operation	No
Max. cable length to lamp/LED module	2.0 m <sup>1)</sup>
Suitable for fixtures with prot. class	I / II
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Suitable for through-wiring	No
Number of channels	1

<sup>1)</sup> Output wires must be routed as close as possible to each other

### Programming

Programming device	DIPswitch
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### Certificates & standards

Approval marks – approval	ENEC 05 / CCC / CE / RCM
Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547
Type of protection	IP20
Protection class	1/2

### Logistical data






Commodity code	850440839000
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### Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	21-09-2022
Primary Article Identifier	4052899587960
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	c901d590-ecde-487b-90c7-2b549c9c31bd

### Download Data

## Product datasheet

File	
	User instruction OPTOTRONIC LED Power Supply
	Certificates OT FIT CS S MINI ENEC 35 106287 221019
	Declarations of conformity OT FIT CS MINI UK DoC 4294808 220322
	Declarations of conformity OT FIT CS MINI CE 3669357 220322
	CAD data OT FIT MINI CS S - built in step
	CAD data 3-dim OT FIT MINI CS S - built in 3D

### 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.

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899587960	OT FIT 20/220-240/500 CS S MINI	Shipping carton box 20	187 mm x 186 mm x 64 mm	2.23 dm <sup>3</sup>	1256.00 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.