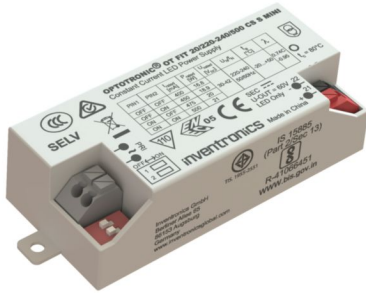


The trusted value of OSRAM Digital Systems continues with Inventronics Global – where experience meets innovation.

## 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

### 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 luminaries
- 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>
Nominal input current at 230 V	0.106 A <sup>2)</sup>
Total harmonic distortion	< 10 % <sup>3)</sup>
Power factor $\lambda$	0.74C...0.95 <sup>4)</sup>
Efficiency in full-load	89 % <sup>5)</sup>
Device power loss	2.6 W <sup>6)</sup>
Inrush current	16.5 A
Max. ECG no. on circuit breaker 10 A (B)	34
Max. ECG no. on circuit breaker 16 A (B)	56
Max. ECG no. on circuit breaker 25 A (B)	not relevant
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Protective conductor current	not relevant
Nominal output voltage	30...42 V
U-OUT (working voltage)	60 V
Nominal output current	400/450/475/500 mA <sup>7)</sup>
Default output current	500 mA
Output current tolerance	$\pm 7.5$ %
Output ripple current (100 Hz)	< 3 % <sup>8)</sup>
Output PSTLM	$\leq 1$
Output SVM	$\leq 0.4$
Nominal output power	12...21 W
Maximum output power	21 W
Galvanic isolation primary/secondary	SELV

1) Safety voltage range

2) At full load, 230 V, 50 Hz

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

4) Full load at 230 V / 50 Hz

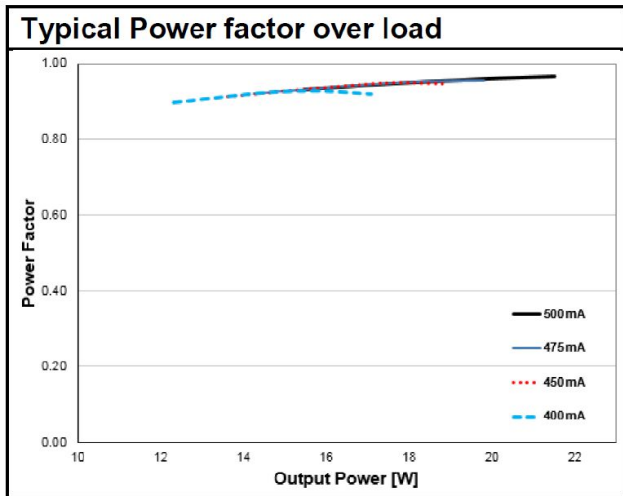
5) at 230 V, 50 Hz

6) At 230 V, Input power 23.6 W max.

7)  $\pm 7.5$ %

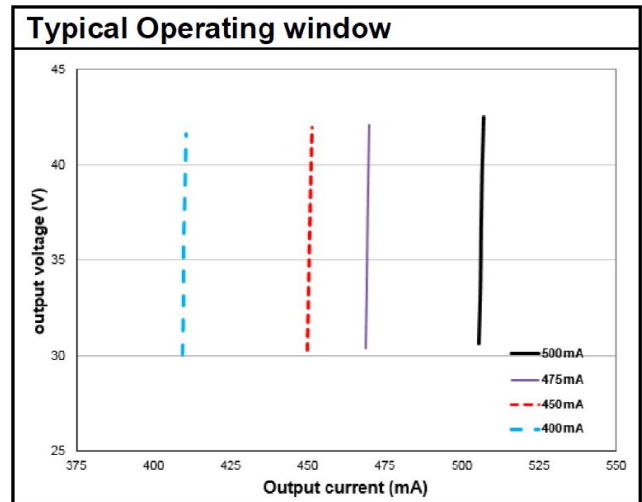
8) Ripple average at 100 Hz

## Typical Power Factor v Load



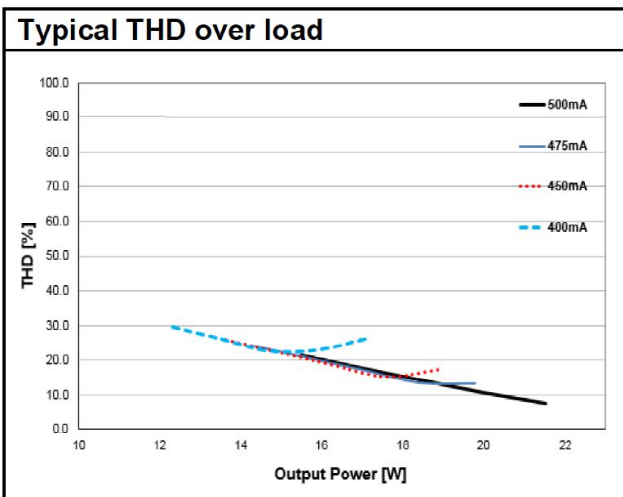
OT FIT 20/220-240/500 CS S MINI Typical Power Factor vs. Load

## Operating Window



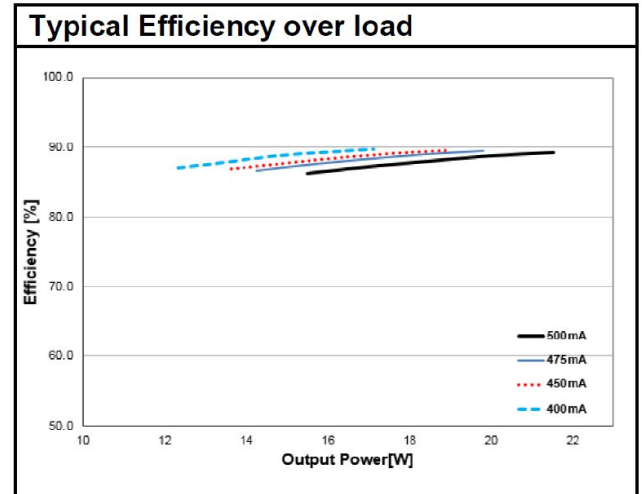
OT FIT 20/220-240/500 CS S MINI Operating Window

## Typical THD v Load



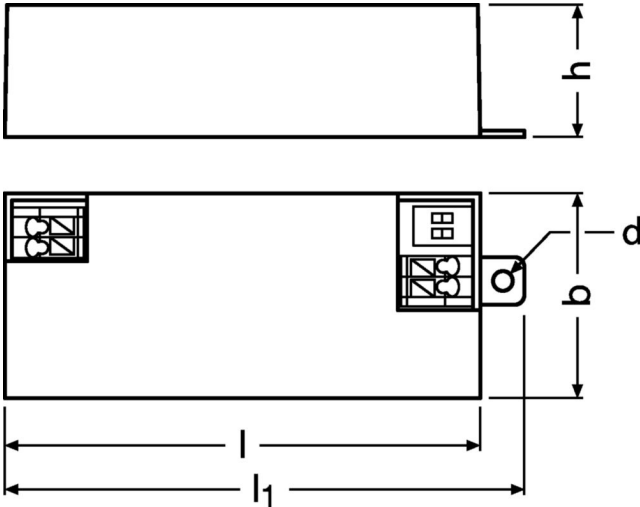
OT FIT 20/220-240/500 CS S MINI Typical THD Vs Load

## Typical Efficiency v Load 230 V 50 Hz



OT FIT 20/220-240/500 CS S MINI Typical Efficiency vs. Load (230 V / 50 Hz)

## Dimensions & weight



<b>Product weight</b>	54.00 g
<b>Length</b>	87.0 mm
<b>Width</b>	35.0 mm
<b>Height</b>	22.0 mm
<b>Mounting hole spacing, length</b>	not relevant mm
<b>Mounting hole spacing, width</b>	not relevant mm
<b>Cable cross-section, input side</b>	0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup> / 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

1) Solid/ Flexible Leads

## Colors & materials

<b>Casing material</b>	Plastic
<b>Product color</b>	White

## Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 °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>

1) Measured on tc point indicated on the product label.

2) Non-condensing

## Lifespan

<b>ECG lifetime</b>	50000 h <sup>1)</sup>
---------------------	-----------------------

1) At maximum  $T_c = 80^\circ\text{C}$  / 10% failure rate

## Capabilities

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

1) Output wires must be routed as close as possible to each other

## Programming

Programming device	DIPswitch
--------------------	-----------

## Certificates & standards

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

## Logistical data

Commodity code	85044083900
----------------	-------------

## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	28-07-2025
Primary Article Identifier	4052899587960   6977770437500
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

## 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.

## Download Data

File		
Certificates	PDF	▶ OT FIT CS MINI ENEC 35 106287 02 090623
CAD data 3-dim	Compressed	▶ OT FIT MINI CS S - built in 3D
CAD data	Compressed	▶ OT FIT MINI CS S - built in step
Mandatory Publications	PDF	▶ OT FIT CS MINI UK DoC 4294808 03 200923
Mandatory Publications	PDF	▶ OT FIT CS MINI CE 3669357 10 200125
User instruction	PDF	▶ UI OT FIT CS S MINI

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899587960 OSRAM	OT FIT 20/220-240/500 CS S MINI	Shipping carton box 20 Pieces	187 x 186 x 67 mm	2.33 dm <sup>3</sup>	62.80 g
6977770437500 INVENTRONICS	OT FIT 20/220-240/500 CS S MINI	Shipping carton box 20 Pieces	187 x 186 x 67 mm	2.33 dm <sup>3</sup>	62.80 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.