

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

OPTOTRONIC FIT CS G2 | 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: 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

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

Areas of application

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

Technical data

Electrical data

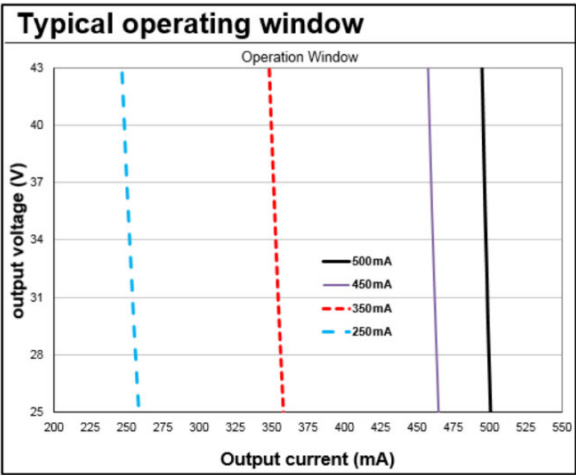
Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Total harmonic distortion	< 10 % ¹⁾
Power factor λ	0.98
Efficiency in full-load	87 % ²⁾
Device power loss	3.0 W ³⁾
Protective conductor current	<0.7 mA
Inrush current	< 16 A ⁴⁾
Max. ECG no. on circuit breaker 10 A (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 %
Default output current	500 mA
Output ripple current (100 Hz)	< 5 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	6.5...21 W
Maximum output power	21 W
Galvanic isolation	SELV
Current set	DipSwitch

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

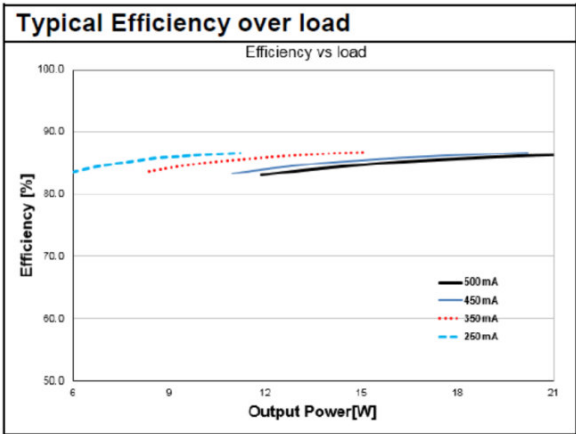
²⁾ at 230 V, 50 Hz

³⁾ At 230 V, Input power 24 W max.

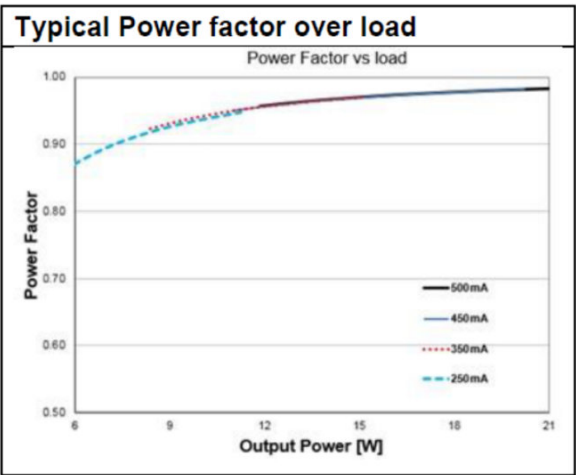
⁴⁾ $t_{width} = 100 \mu s$ (measured at 50 % I_{peak})



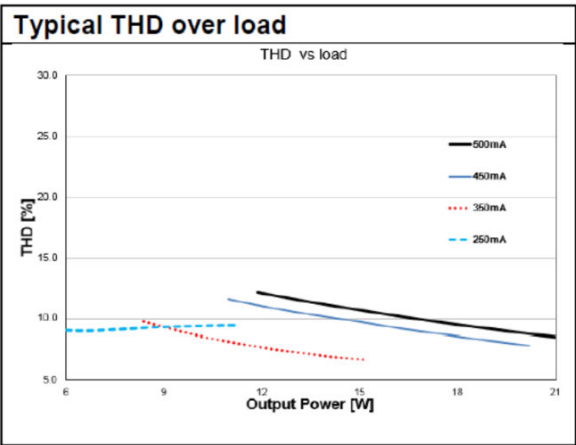
OT FIT 20220-240500 CS Operating Window



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

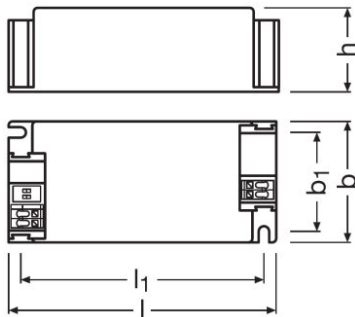


OT FIT 20220-240500 CS Typical Power Factor vs. Load



OT FIT 20220-240500 CS Typical THD Vs Load

Dimensions & weight



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

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

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

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 / 30000 h ¹⁾
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¹⁾ $T_c = 70^{\circ}\text{C}$, with max. 10% failure rate / $T_c = 80^{\circ}\text{C}$, with max. 10% failure rate

Additional product data

Product datasheet

Successor EAN	4052899617315
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Capabilities

Dimmable	No
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 ¹⁾
Suitable for fixtures with prot. class	II
Type of connection, output side	Push terminal
Number of channels	1

¹⁾ 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	CCC / CE / RCM / ENEC 05
Standards	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
Type of protection	IP20
Protection class	II

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	19-05-2023
Primary Article Identifier	4052899435612
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	7a62efbd-618a-4986-952f-b62e8f9852a3

Product datasheet

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
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	Certificates OT FIT 20 30 40 CS EMC 4330577 01 221019
	Certificates OT FIT 20 30 40 CS ENEC 35 104727 221019
	Certificates Certificate 2196588.02 ENEC
	Certificates CCC Certificate 2018171002002235
	Certificates CCC Certificate 2018171002002236
	Declarations of conformity OT FIT CS UK DoC 4290089 150322
	Declarations of conformity 489246_DoC_OT FIT CS
	Declarations of conformity OT FIT CS CE 3667905 150322
	CAD data OT FIT 20 CS IGS 071020
	CAD data OT FIT 20 CS STEP 071020
	CAD data PDF OT FIT 20 CS CADPDF 071020

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.

Product datasheet

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899435612	OT FIT 20/220...240/500 CS	Shipping carton box 20	228 mm x 208 mm x 79 mm	3.75 dm ³	1903.00 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.