

OT FIT 20/220-240/500 CS T-B

OPTOTRONIC FIT CS Track | 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
- Lifetime: up to 50,000 h (temperature at $T_c = 75\text{ °C}$, max. 10 % failure rate)

Product family benefits

- High quality of light thanks to low output ripple current
- High flexibility due to four different output currents per type
- Short housing for minimum distance between spotlights
- SELV system

Areas of application

- Track lights
- Shops and hospitality: retail, hotels, restaurants

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 ²⁾
Efficiency in full-load	85 % ³⁾
Device power loss	3.7 W ⁴⁾
Protective conductor current	<0.7 mA
Inrush current	$\leq 16 \text{ A}$ ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	30
Max. ECG no. on circuit breaker 16 A (B)	50
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	$\pm 7.5 \%$
Default output current	500 mA
Output ripple current (100 Hz)	< 5 % ⁶⁾
Output PSTLM	≤ 1
Output SVM	≤ 0.4
Nominal output power	6.3...21 W
Maximum output power	21 W
Galvanic isolation primary/secondary	SELV
Current set	DipSwitch

¹⁾ Full load, 230V, 50 Hz

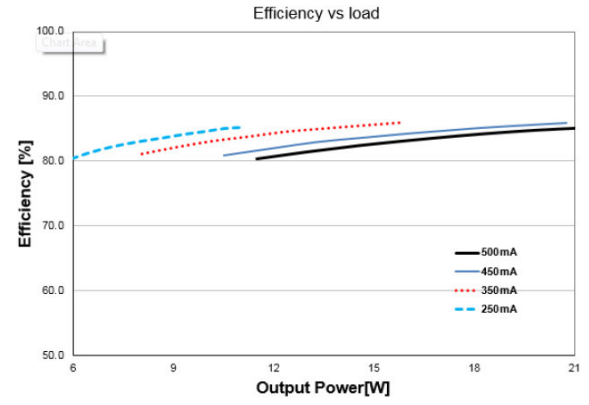
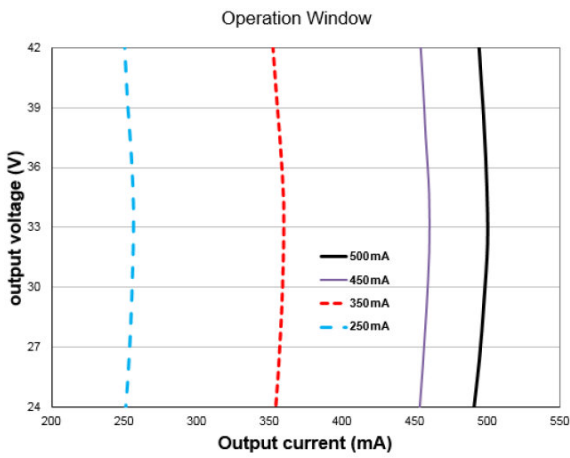
²⁾ Full load at 230 V/50 Hz

³⁾ at 230 V, 50 Hz

⁴⁾ At 230 V, Input power 24.7 W max.

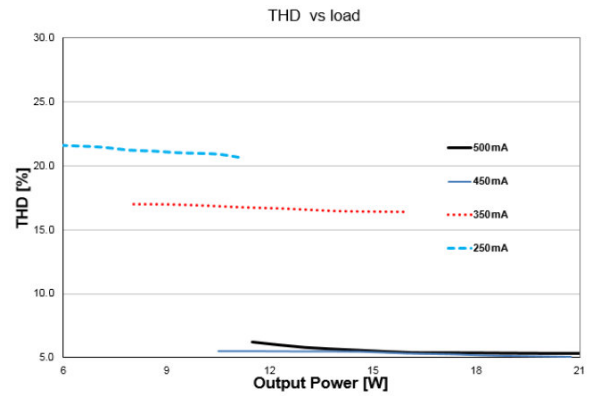
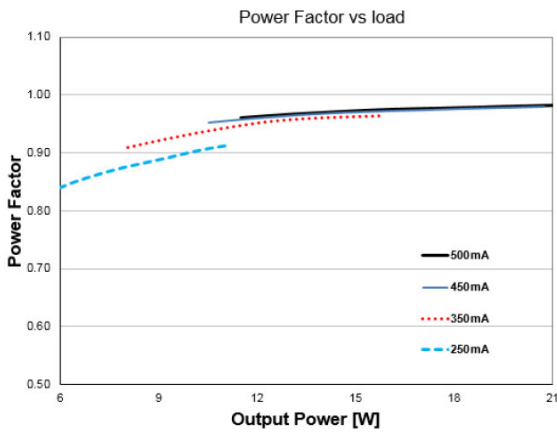
⁵⁾ $t_{\text{width}} = 200 \mu\text{s}$ (measured at 50 % I_{peak})

⁶⁾ Ripple / average @ 100 Hz



OT FIT 20 CS T Operating Window

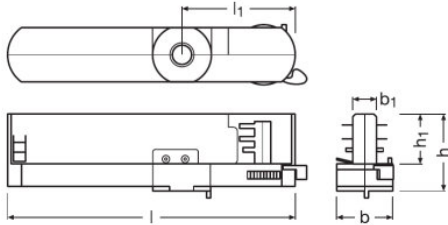
OT FIT 20 CS T Typical Efficiency vs. Load (230 V 50 Hz)



OT FIT 20 CS T Typical Power Factor vs. Load

OT FIT 20 CS T Typical THD Vs Load

Dimensions & weight



Product weight	44.80 g
Cable cross-section, output side	0.2...0.75 mm ²
Wire preparation length, output side	7...8 mm
Length	162.0 mm
Width	32.0 mm
Height	41 mm

Colors & materials

Casing material	Plastic
Product color	BLACK RAL 9011

Temperatures & operating conditions

Ambient temperature range	-20...+35 °C
Maximum temperature at tc test point	75 °C ¹⁾
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-20...80 °C ²⁾
Permitted rel. humidity during operation	5...85 % ³⁾

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

²⁾ Cool down before operating

³⁾ Non-condensing

Lifespan

ECG lifetime	50000 h ¹⁾
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¹⁾ At maximum $T_c = 75^\circ\text{C}$ / 10% failure rate

Additional product data

Compatible track systems	Nuco / Ivela / EUTRAC / GLOBAL / STAFF / NORLUX ¹⁾
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Product datasheet

¹⁾ The compatibility may become invalid when the critical track dimension is modified by the brand owner in case of engineering change or optimization in the future

Capabilities

Dimmable	No
Overheating protection	Automatic reversible
Overload protection	Yes
Short-circuit protection	Yes
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, input side	-
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	CE / ENEC / EAC / CQC / RCM ¹⁾
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

¹⁾ In preparation

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	14-11-2022
Primary Article Identifier	4052899617230
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.

Product datasheet

Declaration No. in SCIP database	c845e78e-e34a-4a12-ab31-c249dd1414dd
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Download Data

File
 User instruction OPTOTRONIC LED Power Supply
 Declarations of conformity OT FIT CS T CE 4177698 220322
 Declarations of conformity OT FIT CS T UK DoC 4281105 220322
 CAD data OT FIT 20 30 40 CS T STEP 210521

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
4052899617230	OT FIT 20/220-240/500 CS T-B	Shipping carton box 20	425 mm x 241 mm x 141 mm	14.44 dm ³	2547.00 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.

Accessories Optional

Product description	Accessory name	Accessory code
OT FIT 20/220-240/500 CS T-B	Track Joint	▶ 4062172228183
OT FIT 20/220-240/500 CS T-B	BLACK RING	▶ 4062172138567

Product datasheet

Disclaimer

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