

OT FIT 120/220...240/750 D LT2 L

OPTOTRONIC FIT D LT2 L | Linear / Area Constant Current – Non dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 120 W
- Supply voltage: 220...240 V
- Available with output current range: up to 750 mA
- Non-isolated drivers

Product family benefits

- Flexible current setting (LEDset2)
- Lifetime: up to 100,000 h (temperature at $T_c = 65^\circ\text{C}$, max. 10 % failure rate)
- High quality of light thanks to low output ripple current
- Very high efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Areas of application

- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Suitable for luminaires of protection class I

Technical data

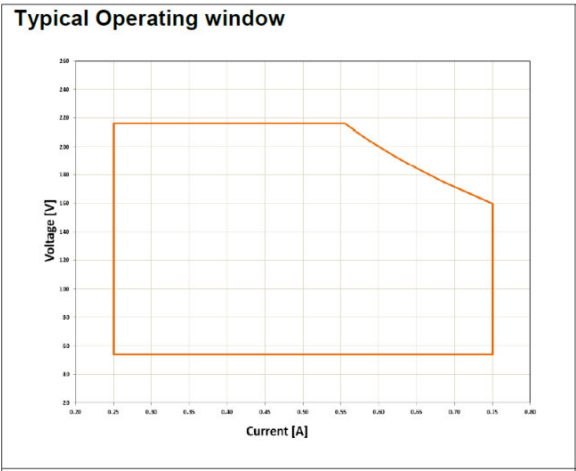
Electrical data

Nominal input voltage	220...240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Current set	LEDset
Total harmonic distortion	< 5 %
Power factor λ	071C099
Efficiency in full-load	92 % ¹⁾
Device power loss	12 W
Protective conductor current	<0.5 mA
Inrush current	70 A
Max. ECG no. on circuit breaker 10 A (B)	8
Max. ECG no. on circuit breaker 16 A (B)	13
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	54...216 V
U-OUT (working voltage)	< 250 V
Nominal output current	250...700 mA ²⁾
Output current LEDset open	250 mA
Output current LEDset shorted	750 mA
Default output current	250 mA ³⁾
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 1 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	13.5...120 W
Maximum output power	120 W
Galvanic isolation	Non isolated
Galvanic isolation primary/secondary	-

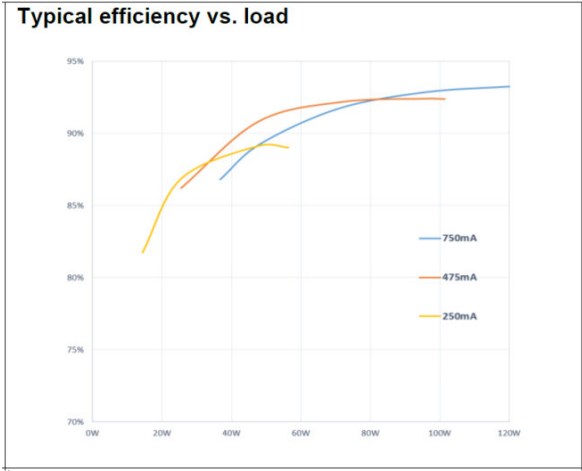
¹⁾ at 230 V, 50 Hz

²⁾ ±5%

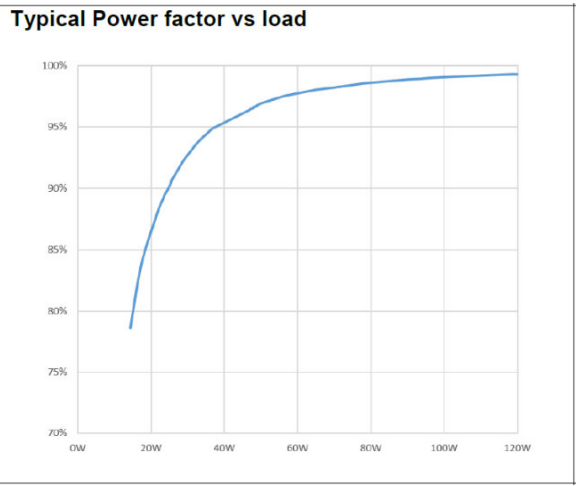
³⁾ LEDset deactivated



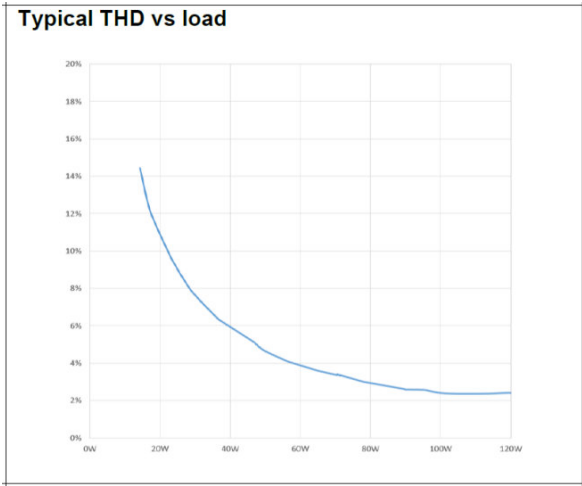
OT FIT 120220-240750 D LT2 L Operating Window



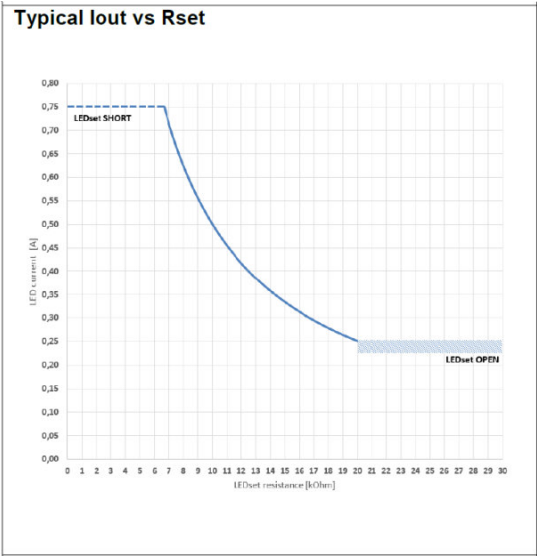
OT FIT 120220-240750 D LT2 L Typical Efficiency vs. Load
(230 V 50 Hz)



OT FIT 120220-240750 D LT2 L Typical Power Factor vs.
Load

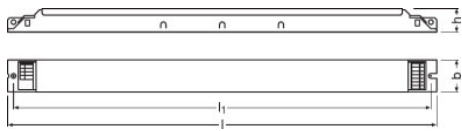


OT FIT 120220-240750 D LT2 L Typical THD Vs Load



OT FIT 120220-240750 D LT2 L Typical I_{out} vs R_{set} (LEDset2 mode)

Dimensions & weight



Mounting hole spacing, length	350.0 mm
Product weight	29000 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	8.5...9.5 mm
Wire preparation length, output side	8.5...9.5 mm
Length	3600 mm
Width	300 mm
Height	210 mm

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Ambient temperature range	-25...+60 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 / 100000 h ¹⁾
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¹⁾ At maximum $T_c = 75^{\circ}\text{C}$ / 10% failure rate / At $T_c = 65^{\circ}\text{C}$ / 10% failure rate

Additional product data

Encapsulated	No
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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	I
Suitable for emergency lighting	Yes
Type of connection, input side	Push terminal
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	LEDset
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Certificates & standards

Approval marks – approval	CE / EL / VDE-ENEC / VDE-EMC / EAC / CCC / BIS / RCM
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Product datasheet

Standards	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61547
Protection class	I
Type of protection	IP20

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	28-04-2023
Primary Article Identifier	4052899497900
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	e187ee3c-e291-43ea-9ba3-ac575c6c217c

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Certificates INOTEC Certificate OT FIT 120750 D LT2 L
	Certificates INOTEC Certificate OT FIT 120750 D LT2 L appendix
	Certificates OTI DALI OT FIT D LT2 L CB DE1 58970 040320
	Certificates OT ENEC 40038085 010322
	Certificates LED drivers EMC 40011668 300922
	Declarations of conformity OT FIT D LT2 L UK DoC 4288054 230322
	Declarations of conformity OT FIT D LT2 L CE 3461268 161023
	CAD data OT FIT 120 D LT2 L IGS 270220
	CAD data OT FIT 120 D LT2 L STEP 270220

Product datasheet

	CAD Data 2-dim OT FIT 120 D LT2 L CAD2PDF 270220
	CAD data 3-dim OT FIT 120 D LT2 L CAD3PDF 270220

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
4052899497900	OT FIT 120/220...240/750 D LT2 L	Shipping carton box 20	385 mm x 160 mm x 100 mm	6.16 dm³	5971.00 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.