OT FIT 25/220...240/700 LT2 S

OPTOTRONIC FIT LT2 S | 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 100,000 h (temperature at T_c = 65 °C, max. 10 % failure rate)
- Cable clamp kit for independent mounting

Product family benefits

- Versatile scope of application due to output power range of up to 40 W
- Fulfill safety requirement due to overload, overtemperature protection
- High efficiency
- High quality of light thanks to <1% output ripple current
- Small housing for flexible luminaire designs

Areas of application

- Luminaires with flexible current setting (LEDset2)
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II
- Suitable for downlights, spotlights and LED panels
- Independent mounting via Cable Clamp Kit possible

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Technical data

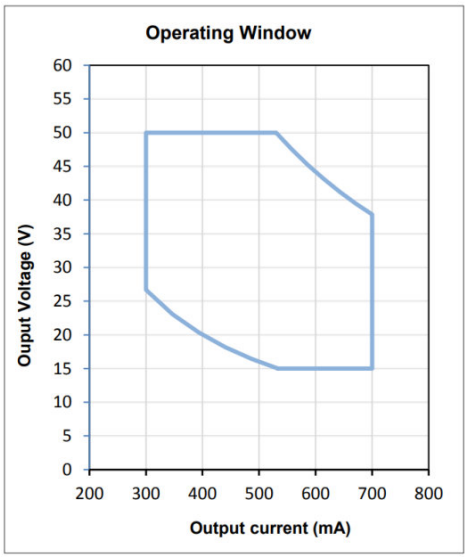
Electrical data

Nominal input voltage	220…240 V
Mains frequency	50/60 Hz
Input voltage AC	198…264 V
Total harmonic distortion	15 %
Power factor λ	0.92
Efficiency in full-load	86 % [1)]
Device power loss	4.5 W
Inrush current	13 A [2)]
Max. ECG no. on circuit breaker 10 A (B)	20
Max. ECG no. on circuit breaker 16 A (B)	30
Max. ECG no. on circuit breaker 25 A (B)	42
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	15…50 V
U-OUT (working voltage)	60 V
Nominal output current	300…700 mA
Output current LEDset open	Not allowed
Output current LEDset shorted	700 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 1 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	8.0…26.5 W
Maximum output power	26.5 W
Galvanic isolation	SELV
Input voltage DC	-
Galvanic isolation primary/secondary	3.75 kV
Current set	LEDset2

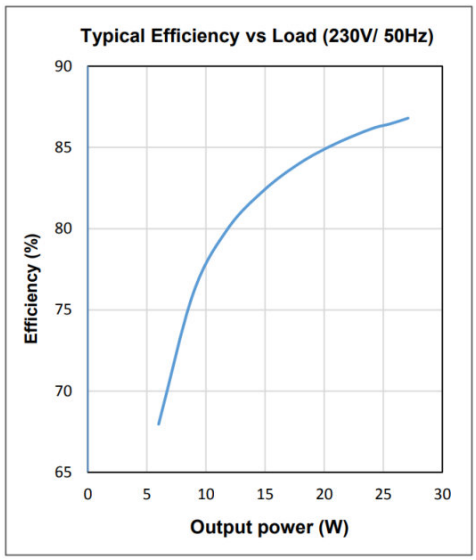
1) at 230 V, 50 Hz

2) t_{width} = 225 µs (measured at 50 % I_{peak})

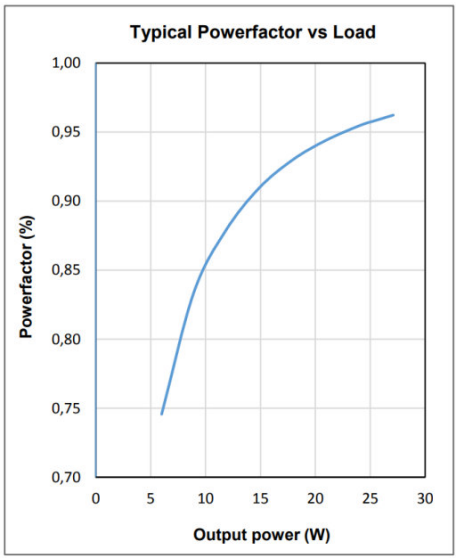
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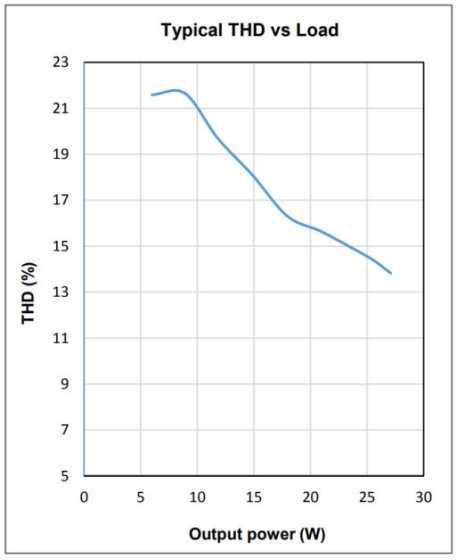
OT FIT 25220-240700 LT2 S Operating Window



OT FIT 25220-240700 LT2 S Typical Efficiency vs. Load (230 V 50 Hz)

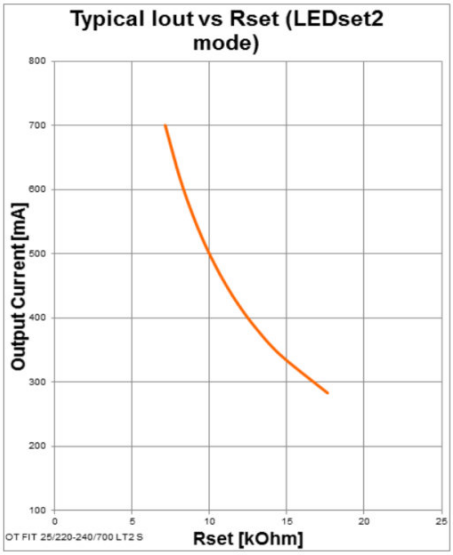


OT FIT 25220-240700 LT2 S Typical Power Factor vs. Load



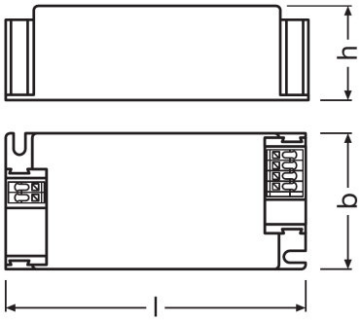
OT FIT 25220-240700 LT2 S Typical THD Vs Load

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OT FIT 25220-240700 LT2 S Typical Iout vs Rset (LEDset2 mode)

Dimensions & weight



Mounting hole spacing, length	88.0 mm
Mounting hole spacing, width	34.0 mm
Product weight	95.00 g
Cable cross-section, input side	0.5…1.5 mm²
Cable cross-section, output side	0.5…1.5 mm²
Wire preparation length, input side	6.5…7.5 mm
Wire preparation length, output side	6.5…7.5 mm
Length	97.0 mm
Width	43.0 mm

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Height	29.5 mm

Colors & materials

Casing material	Plastic

Temperatures & operating conditions

Ambient temperature range	-20…+50 °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	100000 h [1)]

[1)] At T_{case} = 65°C at T_{c} point / 10% failure rate

Additional product data

Successor EAN	4052899617186

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 / II
Type of connection, output side	Push terminal
Suitable for through-wiring	No

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

Programming

Programming device	LEDset

Certificates & standards

Approval marks – approval	CE

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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 61547/Acc. to IEC 61000-3-3
Type of protection	IP20
Protection class	II

Logistical data

Commodity code	850440829000

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	14-04-2022
Primary Article Identifier	4052899957008
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	1bc2ecd2-d837-4f95-a314-d79fb4e73084

Download Data

	File
	User instruction OPTOTRONIC LED Power Supply
	Brochures 730877_Brochure OT FIT LT2 S (EN)
	Certificates OT FIT OTI DALI LT2 CB DE1 63464 060520
	Certificates 729794_Certificate OT FIT LT2 S
	Certificates OT EMC 40038482 220421
	Certificates OT ENEC 40038447 130722
	Declarations of conformity OT FIT LT2 S CE 3432845 040322
	Declarations of conformity OT FIT LT2 S UK DoC 4288997 040322
	CAD data 722872_OT FIT-LT2S-15-25-40-housing-3Ddrawing STEP
	CAD data 722871_OT FIT-LT2S-15-25-40-cable clamp 3Ddrawing.STEP

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	CAD data 722873_OT FIT-LT2S-15-25-40-housing with cable clamps-3Ddrawing STEP

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
4052899957008	OT FIT 25/220...240/700 LT2 S	Shipping carton box 20	228 mm x 208 mm x 78 mm	3.70 dm^3	2103.00 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 25/220...240/700 LT2 S	OT CABLE CLAMP D-STYLE	4052899077904

Disclaimer

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

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