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

OPTOTRONIC FIT LT2 LP | Compact constant current LED driver – Non dimmable



Product family features

- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 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)
- Independent connection via through-looping (depending on version of product)

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
- Higher quality of light thanks to < 5% output ripple current

Areas of application

- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- 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

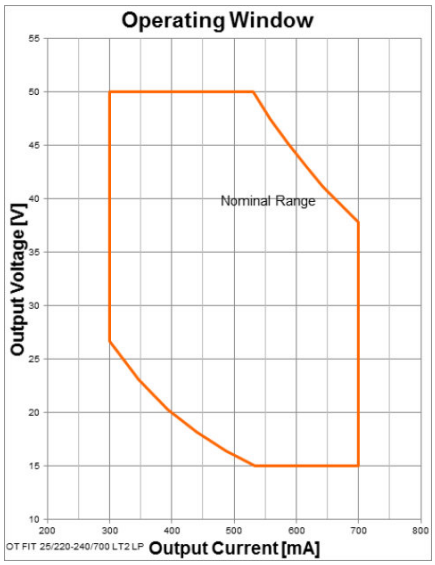
Nominal input voltage	220…240 V
Mains frequency	0/50/60 Hz
Input voltage AC	198…264 V
Input voltage DC	176…276 V
Total harmonic distortion	< 15 %
Power factor λ	0.54C…0.90C
Efficiency in full-load	86 % [1)]
Device power loss	4.5 W
Inrush current	15 A [2)]
Max. ECG no. on circuit breaker 10 A (B)	20
Max. ECG no. on circuit breaker 16 A (B)	30
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	2 kV [3)]
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)	< 5 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	8.0…26.5 W
Maximum output power	26.5 W
Galvanic isolation primary/secondary	SELV
Galvanic isolation	SELV
Current set	LEDset2

1) at 230 V, 50 Hz

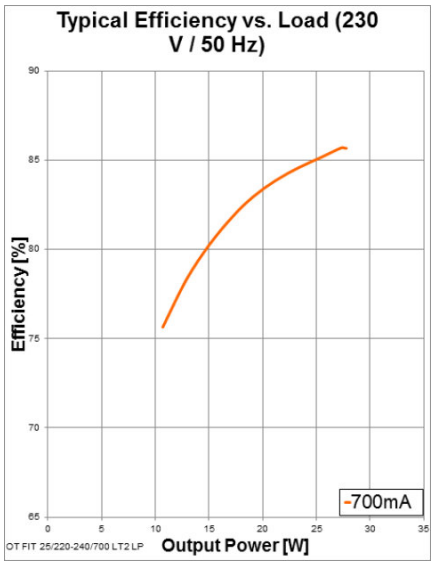
2) t_{width} = 225 µs (measured at 50 % I_{peak})

3) L+N / PE of basic isolated LED module

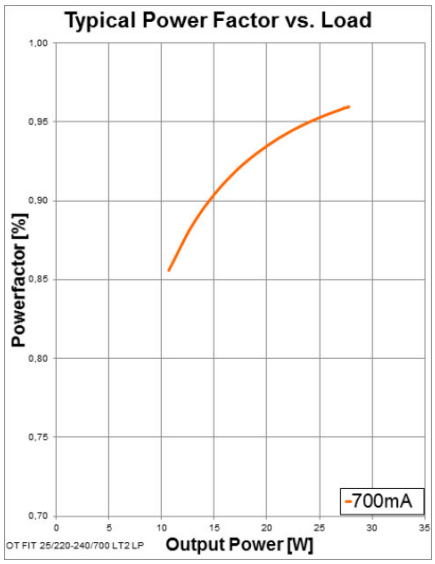
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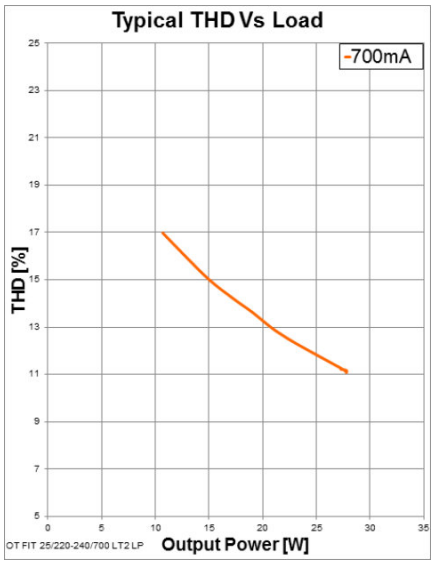
Operating Window



Typical Efficiency vs. Load (230 V 50 Hz)

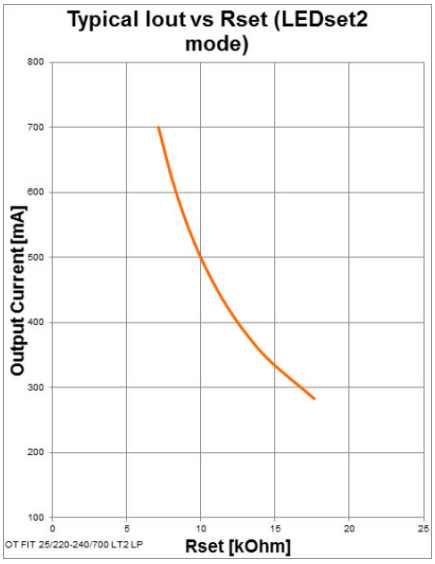


Typical Power Factor vs. Load



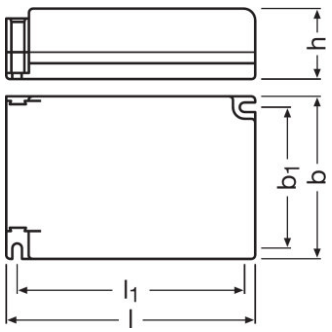
Typical THD Vs Load

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Typical Iout vs Rset (LEDset2 mode)

Dimensions & weight



Mounting hole spacing, length	94.0 mm
Mounting hole spacing, width	58.0 mm
Product weight	125.00 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	9.0…10.0 mm
Wire preparation length, output side	8.0…9.0 mm
Length	103.0 mm
Width	67.0 mm
Height	22.5 mm

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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	50000 / 100000 h [1)]

[1)] T_c = 75°C, 0.2% / 1,000 h failure rate / T_c = 65°C, 0.1% / 1,000 h failure rate

Additional product data

Predecessor EAN	4052899919419, 4052899919402

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	Yes
Suitable for emergency lighting	Yes
Number of channels	1

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

Programming

Programming device	LEDset

Certificates & standards

Approval marks – approval	CE / UKCA / ENEC / CCC / EL / RCM / BIS / EAC

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Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61547/Acc. to EN 55015
Type of protection	IP20
Protection class	II

Logistical data

Commodity code	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	22-05-2023
Primary Article Identifier	4052899490697
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	fcf5cfcd-a300-4b5a-9fe6-890d705818ec

Download Data

	File
	User instruction OPTOTRONIC LED Power Supply
	Certificates LED drivers EMC 40011668 300922
	Certificates OT ENEC 40038447 260623
	Certificates CEAG OT FIT 25220-240700 LT2 LP
	Certificates INOTEC OT FIT 25220-240700 LT2 LP
	Certificates CCC Certificate 2018171002002040
	Certificates CCC Certificate 2018171002002039
	Declarations of conformity OT FIT LT2 LP CE 3520188 161023
	CAD data 3-dim OT FIT-LT2-15-25-40 cable clamp 3Ddrawing
	CAD data 3-dim OT FIT-LT2-15-25-40 housing 3Ddrawing

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	CAD data 3-dim OT FIT-LT2-15-25-40 housing with cable clamp 3Ddrawing

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
4052899490697	OT FIT 25/220...240/700 LT2 LP	Shipping carton box 20	348 mm x 218 mm x 67 mm	5.08 dm^3	2662.00 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 LP	OT CABLE CLAMP B-STYLE LP TL	4052899530997

Disclaimer

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

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