

OPTOTRONIC FIT LT2 LP

Compact constant current LED driver – Non dimmable



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

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



Product family datasheet

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 $T_c = 65\text{ °C}$, max. 10 % failure rate)
- Independent connection via through-looping (depending on version of product)

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Input voltage DC	Total harmonic distortion	Power factor λ
OT FIT 15/220...240/500 LT2 LP	220...240 V	0/50/60 Hz	198...264 V	176...276 V	< 15 %	0.56C...0.91C
OT FIT 25/220...240/700 LT2 LP	220...240 V	0/50/60 Hz	198...264 V	176...276 V	< 15 %	0.54C...0.90C
OT FIT 40/220...240/1A0 LT2 LP	220...240 V	0/50/60 Hz	198...264 V	176...276 V	< 15 %	0.98

Product description	Efficiency in full-load	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)
OT FIT 15/220...240/500 LT2 LP	84 % ¹⁾	3.0 W	14 A	38	60
OT FIT 25/220...240/700 LT2 LP	86 % ¹⁾	4.5 W	15 A ³⁾	20	30
OT FIT 40/220...240/1A0 LT2 LP	87 % ¹⁾	6.0 W	17 A ³⁾	19	30

Product description	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)
OT FIT 15/220...240/500 LT2 LP	-	2 kV ²⁾	1 kV	15...50 V	60 V
OT FIT 25/220...240/700 LT2 LP	-	2 kV ²⁾	1 kV	15...50 V	60 V
OT FIT 40/220...240/1A0 LT2 LP	-	2 kV ²⁾	1 kV	15...50 V	60 V

Product description	Nominal output current	Output current LEDset open	Output current LEDset shorted	Output current tolerance
OT FIT 15/220...240/500 LT2 LP	150...500 mA	Not allowed	500 mA	±5 %
OT FIT 25/220...240/700 LT2 LP	300...700 mA	Not allowed	700 mA	±5 %
OT FIT 40/220...240/1A0 LT2 LP	500...1050 mA	Not allowed	1050 mA	±5 %

Product description	Output ripple current (100 Hz)	Output PSTLM	Output SVM	Nominal output power
OT FIT 15/220...240/500 LT2 LP	< 5 %	≤1	≤0.4	4.5...17.5 W
OT FIT 25/220...240/700 LT2 LP	< 5 %	≤1	≤0.4	8.0...26.5 W
OT FIT 40/220...240/1A0 LT2 LP	< 5 %	≤1	≤0.4	13...40 W

Product description	Maximum output power	Current set
OT FIT 15/220...240/500 LT2 LP	17.5 W	LEDset2
OT FIT 25/220...240/700 LT2 LP	26.5 W	LEDset2
OT FIT 40/220...240/1A0 LT2 LP	40 W	LEDset2

¹⁾ at 230 V, 50 Hz

²⁾ L+N / PE of basic isolated LED module

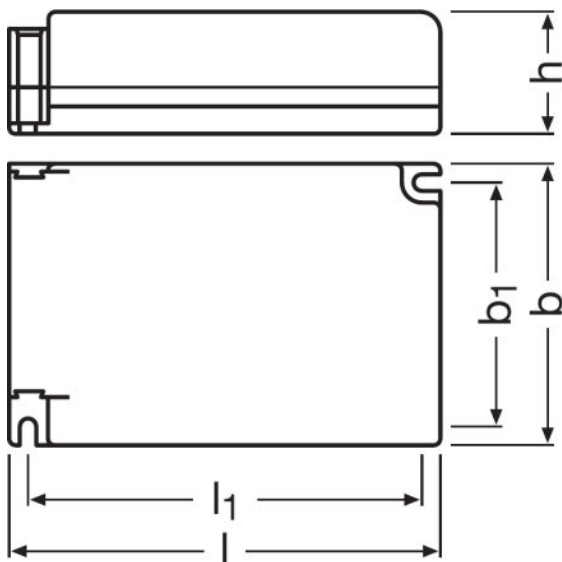
³⁾ $t_{\text{width}} = 225 \mu\text{s}$ (measured at 50 % I_{peak})

Dimensions & weight

Product description	Mounting hole spacing, length	Mounting hole spacing, width	Product weight	Cable cross-section, input side	Cable cross-section, output side
OT FIT 15/220...240/500 LT2 LP	94.0 mm	58.0 mm	110.00 g	0.5...1.5 mm ²	0.5...1.5 mm ²
OT FIT 25/220...240/700 LT2 LP	94.0 mm	58.0 mm	125.00 g	0.5...1.5 mm ²	0.5...1.5 mm ²
OT FIT 40/220...240/1A0 LT2 LP	94.0 mm	58.0 mm	135.00 g	0.5...1.5 mm ²	0.5...1.5 mm ²

Product description	Wire preparation length, input side	Wire preparation length, output side	Length	Width	Height
OT FIT 15/220...240/500 LT2 LP	9.0...10.0 mm	8.0...9.0 mm	103.0 mm	67.0 mm	22.5 mm
OT FIT 25/220...240/700 LT2 LP	9.0...10.0 mm	8.0...9.0 mm	103.0 mm	67.0 mm	22.5 mm
OT FIT 40/220...240/1A0 LT2 LP	9.0...10.0 mm	8.0...9.0 mm	103.0 mm	67.0 mm	22.5 mm

Product line drawing



OT FIT 15/220...240/500 LT2 LP, OT FIT 25/220...240/700 LT2 LP, OT FIT 40/220...240/1A0 LT2 LP

Colors & materials

Product description	Casing material
OT FIT 15/220...240/500 LT2 LP	Plastic
OT FIT 25/220...240/700 LT2 LP	Plastic
OT FIT 40/220...240/1A0 LT2 LP	Plastic

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
OT FIT 15/220...240/500 LT2 LP	-20...+50 °C	75 °C	110 °C	-40...+85 °C
OT FIT 25/220...240/700 LT2 LP	-20...+50 °C	75 °C	110 °C	-40...+85 °C
OT FIT 40/220...240/1A0 LT2 LP	-20...+45 °C	75 °C	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation
OT FIT 15/220...240/500 LT2 LP	5...85 % ¹⁾
OT FIT 25/220...240/700 LT2 LP	5...85 % ¹⁾
OT FIT 40/220...240/1A0 LT2 LP	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OT FIT 15/220...240/500 LT2 LP	50000 / 100000 h ¹⁾
OT FIT 25/220...240/700 LT2 LP	50000 / 100000 h ¹⁾
OT FIT 40/220...240/1A0 LT2 LP	50000 / 100000 h ¹⁾

¹⁾ $T_c = 75^{\circ}\text{C}$, 0.2% / 1,000 h failure rate / $T_c = 65^{\circ}\text{C}$, 0.1% / 1,000 h failure rate

Additional product data

Product description	Predecessor EAN
OT FIT 15/220...240/500 LT2 LP	4052899919426
OT FIT 25/220...240/700 LT2 LP	4052899919419, 4052899919402
OT FIT 40/220...240/1A0 LT2 LP	4052899166318

Capabilities

Product description	Dimmable	Overheating protection	Overload protection
OT FIT 15/220...240/500 LT2 LP	No	Automatic reversible	Automatic reversible
OT FIT 25/220...240/700 LT2 LP	No	Automatic reversible	Automatic reversible
OT FIT 40/220...240/1A0 LT2 LP	No	Automatic reversible	Automatic reversible

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Max. cable length to lamp/LED module
OT FIT 15/220...240/500 LT2 LP	Automatic reversible	Yes	No	2.0 m ¹⁾
OT FIT 25/220...240/700 LT2 LP	Automatic reversible	Yes	No	2.0 m ¹⁾
OT FIT 40/220...240/1A0 LT2 LP	Automatic reversible	Yes	No	2.0 m ¹⁾

Product family datasheet

Product description	Suitable for fixtures with prot. class	Type of connection, output side	Number of channels
OT FIT 15/220...240/500 LT2 LP	I / II	Push terminal	1
OT FIT 25/220...240/700 LT2 LP	I / II	Push terminal	1
OT FIT 40/220...240/1A0 LT2 LP	I / II	Push terminal	1

Product description	Suitable for through-wiring
OT FIT 15/220...240/500 LT2 LP	Yes
OT FIT 25/220...240/700 LT2 LP	Yes
OT FIT 40/220...240/1A0 LT2 LP	Yes

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

Programming

Product description	Programming device
OT FIT 15/220...240/500 LT2 LP	LEDset
OT FIT 25/220...240/700 LT2 LP	LEDset
OT FIT 40/220...240/1A0 LT2 LP	LEDset

Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection	Protection class
OT FIT 15/220...240/500 LT2 LP	CE / UKCA / ENEC / CCC / EL / RCM / BIS / EAC	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	IP20	II
OT FIT 25/220...240/700 LT2 LP	CE / UKCA / ENEC / CCC / EL / RCM / BIS / EAC	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	IP20	II
OT FIT 40/220...240/1A0 LT2 LP	CE / UKCA / ENEC / CCC / EL / RCM / BIS / EAC	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	IP20	II

Logistical data

Product description	Commodity code
OT FIT 15/220...240/500 LT2 LP	85044083900
OT FIT 25/220...240/700 LT2 LP	85044083900
OT FIT 40/220...240/1A0 LT2 LP	85044083900

Product family datasheet

Environmental information
Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OT FIT 15/220...240/500 LT2 LP	09-06-2023	4052899490673	Lead
OT FIT 25/220...240/700 LT2 LP	22-05-2023	4052899490697	Lead
OT FIT 40/220...240/1A0 LT2 LP	26-05-2023	4052899490734	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OT FIT 15/220...240/500 LT2 LP	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	c3684197-aa75-46f1-8e42-5d96e274f816
OT FIT 25/220...240/700 LT2 LP	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	fcf5cfcd-a300-4b5a-9fe6-890d705818ec
OT FIT 40/220...240/1A0 LT2 LP	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	5c5c1e01-8518-4cb8-bd43-a31141b276b3

Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Certificates LED drivers EMC 40011668 300922
	Certificates OT ENEC 40038447 260623
	Certificates CEAG OT FIT 15220-240500 LT2 LP
	Certificates INOTEC OT FIT 15220-240500 LT2 LP

Product family datasheet

	Certificates CCC Certificate 2018171002002031
	Certificates CCC Certificate 2018171002002041
	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
	CAD data 3-dim OT FIT-LT2-15-25-40 housing with cable clamp 3Ddrawing
	Certificates CEAG OT FIT 25220-240700 LT2 LP
	Certificates INOTEC OT FIT 25220-240700 LT2 LP
	Certificates CCC Certificate 2018171002002040
	Certificates CCC Certificate 2018171002002039
	Certificates CEAG OT FIT 40220-2401A0 LT2 LP
	Certificates INOTEC OT FIT 40220-2401A0 LT2 LP

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
4052899490673	OT FIT 15/220...240/500 LT2 LP	Shipping carton box 20	348 mm x 218 mm x 67 mm	5.08 dm ³	2362.00 g

Product family datasheet

Logistical Data

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
4052899490734	OT FIT 40/220...240/1A0 LT2 LP	Shipping carton box 20	348 mm x 218 mm x 67 mm	5.08 dm ³	2862.00 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 15/220...240/500 LT2 LP	OT CABLE CLAMP B-STYLE LP TL	▶ 4052899530997
OT FIT 25/220...240/700 LT2 LP	OT CABLE CLAMP B-STYLE LP TL	▶ 4052899530997
OT FIT 40/220...240/1A0 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.