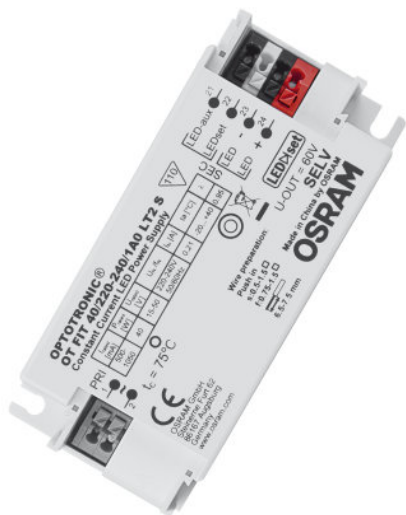


OPTOTRONIC FIT LT2 S

Compact constant current LED driver – Non dimmable



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

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

Product family datasheet

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 $T_c = 65\text{ °C}$, max. 10 % failure rate)
- Cable clamp kit for independent mounting

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ	
OT FIT 15/220...240/500 LT2 S	220...240 V	50/60 Hz	198...264 V	15 %	090	
OT FIT 40/220...240/1A0 LT2 S	220...240 V	50/60 Hz	198...264 V	12 %	095	
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 S	83 % ¹⁾		3.0 W	8 A ²⁾	38	60
OT FIT 40/220...240/1A0 LT2 S	86 % ¹⁾		6.0 W	15 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 S	90	2 kV		1 kV	15...50 V	60 V
OT FIT 40/220...240/1A0 LT2 S	42	2 kV		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 S	150...500 mA	Not allowed		500 mA	± 5 %	
OT FIT 40/220...240/1A0 LT2 S	500...1050 mA				± 5 %	
Product description	Output ripple current (100 Hz)		Output PSTLM		Output SVM	Nominal output power
OT FIT 15/220...240/500 LT2 S	< 1 %		≤ 1		≤ 0.4	4.5...17.5 W
OT FIT 40/220...240/1A0 LT2 S	< 1 %		≤ 1		≤ 0.4	13...40 W
Product description	Maximum output power		Input voltage DC	Current set		
OT FIT 15/220...240/500 LT2 S	17.5 W		-	LEDset2		
OT FIT 40/220...240/1A0 LT2 S	40 W		-	LEDset2		

¹⁾ at 230 V, 50 Hz

²⁾ At 150 μ s

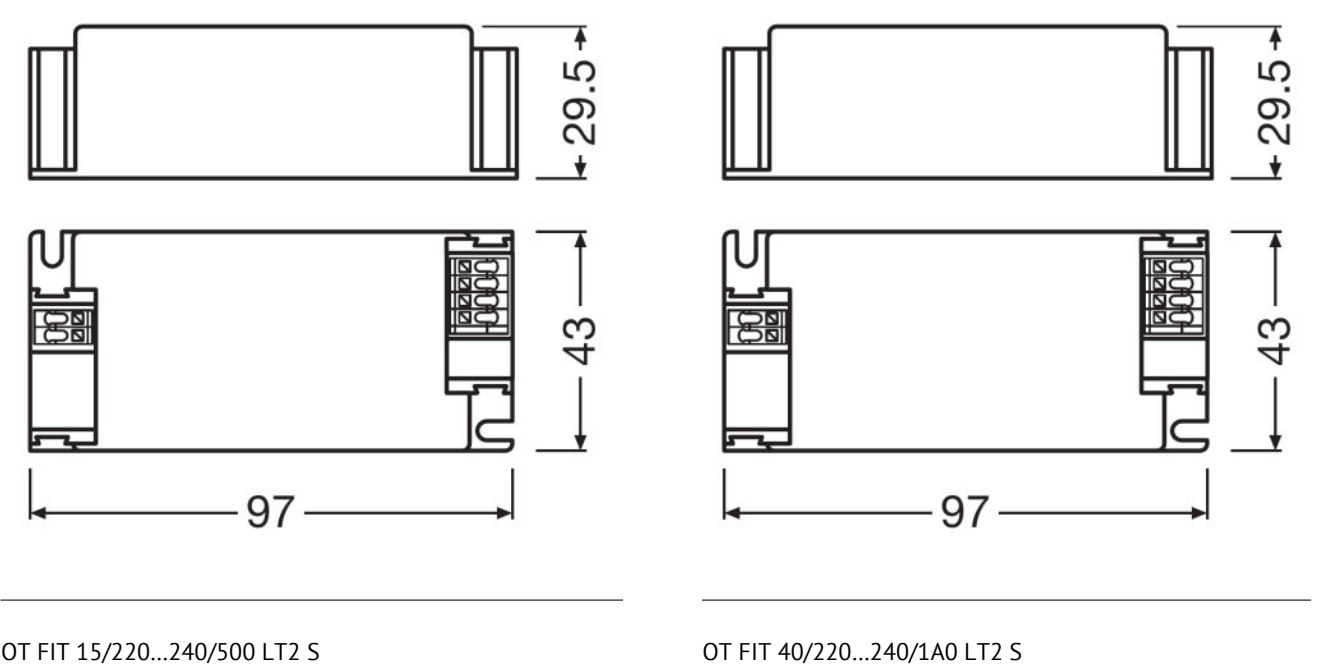
³⁾ $t_{width} = 225 \mu$ s (measured at 50 % I_{peak})

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 S	88.0 mm	34.0 mm	8600 g	0.5...1.5 mm ²	0.5...1.5 mm ²
OT FIT 40/220...240/1A0 LT2 S	88.0 mm	34.0 mm	10500 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	Height	Width	Length
OT FIT 15/220...240/500 LT2 S	6.5...7.5 mm	6.5...7.5 mm	295 mm	430 mm	970 mm
OT FIT 40/220...240/1A0 LT2 S	6.5...7.5 mm	6.5...7.5 mm	295 mm	430 mm	970 mm

Product line drawing



Colors & materials

Product description	Casing material
OT FIT 15/220...240/500 LT2 S	Plastic
OT FIT 40/220...240/1A0 LT2 S	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 S	-20...+50 °C	75 °C	110 °C	-40...+85 °C
OT FIT 40/220...240/1A0 LT2 S	-20...+40 °C	75 °C	110 °C	-40...+85 °C

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

¹⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OT FIT 15/220...240/500 LT2 S	100000 h ¹⁾
OT FIT 40/220...240/1A0 LT2 S	100000 h ¹⁾

¹⁾ At $T_{case} = 65^{\circ}C$ at T_c point / 10% failure rate

Additional product data

Product description	Successor EAN
OT FIT 15/220...240/500 LT2 S	4052899617179
OT FIT 40/220...240/1A0 LT2 S	4052899617193

Capabilities

Product description	Dimmable	Overheating protection	Overload protection
OT FIT 15/220...240/500 LT2 S	No	Automatic reversible	Automatic reversible
OT FIT 40/220...240/1A0 LT2 S	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 S	Automatic reversible	Yes	No	2.0 m ¹⁾
OT FIT 40/220...240/1A0 LT2 S	Automatic reversible	Yes	No	2.0 m ¹⁾

Product description	Suitable for fixtures with prot. class	Type of connection, output side	Suitable for through-wiring
OT FIT 15/220...240/500 LT2 S	I / II	Push terminal	No
OT FIT 40/220...240/1A0 LT2 S	I / II	Push terminal	No

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

Product family datasheet

Programming

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

Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection	Protection class
OT FIT 15/220...240/500 LT2 S	CE	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	IP20	II
OT FIT 40/220...240/1A0 LT2 S	CE	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	IP20	II

Logistical data

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

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 S	02-06-2023	4052899956995	Lead
OT FIT 40/220...240/1A0 LT2 S	19-05-2023	4052899957015	Lead
Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OT FIT 15/220...240/500 LT2 S	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	f008b4d9-77ee-42e8-8fe3-0d64cee0f9c5
OT FIT 40/220...240/1A0 LT2 S	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	fe965ecc-1b0a-4e63-95bc-09d95f546f8e

Product family datasheet

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
	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 290922
	Certificates OT ENEC 40038447 260623
	Certificates CCC Certificate 2018171002002029 (CE)
	Certificates CCC Certificate 2018171002002030 (CE)
	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
	CAD data 722873_OT FIT-LT2S-15-25-40-housing with cable clamps-3Ddrawing STEP

Product family datasheet

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
4052899956995	OT FIT 15/220...240/500 LT2 S	Shipping carton box 20	228 mm x 208 mm x 78 mm	3.70 dm ³	1826.00 g
4052899957015	OT FIT 40/220...240/1A0 LT2 S	Shipping carton box 20	228 mm x 208 mm x 78 mm	3.70 dm ³	2206.00 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 S	OT CABLE CLAMP D-STYLE	▶ 4052899077904
OT FIT 40/220...240/1A0 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.