

## ICUTRONIC FIT CS (sq)

Compact constant current LED driver – Non dimmable



### Areas of application

- Suitable for downlights, spotlights and LED panels
- Suitable for luminaires of protection classes I and II

### Product family benefits

- Higher quality of light thanks to low output ripple current
- High flexibility due to four different output currents
- Small housing for flexible luminaire designs
- High efficiency

### Product family features

- Lifetime: up to 50,000 h (temperature at max.  $t_c$ )
- Cable clamp kit for independent mounting

# Product family datasheet

## Technical data

### Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor $\lambda$
IT FIT 60/220...240/1A4 CS	220...240 V	50...60 Hz	198...264 V <sup>1)</sup>	< 10 %	0.98 <sup>2)</sup>
OT FIT 75/220-240/1A6 CS	220...240 V	50...60 Hz	198...264 V	< 10 % <sup>7)</sup>	0.95...0.98

Product description	Efficiency in full-load	Device power loss	Protective conductor current	Inrush current	Max. ECG no. on circuit breaker 10 A (C)
IT FIT 60/220...240/1A4 CS	90 % <sup>3)</sup>	6.5 W	<0.7 mA	< 50 A <sup>4)</sup>	37
OT FIT 75/220-240/1A6 CS	91 % <sup>3)</sup>	8.6 W <sup>8)</sup>	<0.7 mA	< 40 A <sup>9)</sup>	16

Product description	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 16 A (C)	Surge capability (L/N-Ground)	Surge capability (L-N)
IT FIT 60/220...240/1A4 CS	25	40	60	2 kV	1 kV
OT FIT 75/220-240/1A6 CS	10	16	26	2 kV	1 kV

Product description	Nominal output voltage	U-OUT (working voltage)	Nominal output current	Output current tolerance	Output ripple current (100 Hz)
IT FIT 60/220...240/1A4 CS	27...57 / 27...52 / 27...48 / 27...43 / 27...40 V <sup>5)</sup>	70 V	825 / 900 / 975 / 1050 / 1000 / 1200 / 1300 / 1400 mA	±5 %	< 3 % <sup>6)</sup>
OT FIT 75/220-240/1A6 CS	27...57 / 27...42 V <sup>10)</sup>	70 V	1200 / 1350 / 1500 / 1650 mA	±7.5 %	< 5 %

Product description	Output PSTLM	Output SVM	Nominal output power	Maximum output power
IT FIT 60/220...240/1A4 CS	≤1	≤0.4	22.3...60 W	60 W
OT FIT 75/220-240/1A6 CS	≤1	≤0.4	32.5...77 W	77 W

Product description	Galvanic isolation	Galvanic isolation primary/secondary	Default output current
IT FIT 60/220...240/1A4 CS	SELV	SELV	1400 mA
OT FIT 75/220-240/1A6 CS	SELV	SELV	1650 mA

Product description	Current set
IT FIT 60/220...240/1A4 CS	DipSwitch
OT FIT 75/220-240/1A6 CS	DipSwitch

<sup>1)</sup> Safety voltage range

<sup>2)</sup> Full load at 230 V/50 Hz

## Product family datasheet

3) at 230 V, 50 Hz

4)  $t_{width} = 70 \mu s$  (measured at 50 %  $I_{peak}$ )

5) At 825/900/975/1050 mA / At 1100 mA / At 1200 mA / At 1300 mA / At 1400 mA

6) Ripple / average @ 100 Hz

7) At full load, 230 V, 50 Hz / see graphs

8) At 230 V, Input power 85.5 W max.

9)  $t_{width} = 200 \mu s$  (measured at 50 %  $I_{peak}$ )

10) At output current 1200/1350 mA / At output current 1500/1650 mA

### Dimensions & weight

Product description	Mounting hole spacing, length	Mounting hole spacing, width	Product weight	Cable cross-section, input side	Cable cross-section, output side
IT FIT 60/220...240/1A4 CS	94.0 mm	58.0 mm	155.00 g	0.5...1.5 / 0.75...1.5 mm <sup>2</sup> 1)	0.5...1.5 / 0.75...1.5 mm <sup>2</sup> 1)
OT FIT 75/220-240/1A6 CS	94.0 mm	58.0 mm	170.00 g	0.5...1.5 / 0.75...1.5 mm <sup>2</sup> 1)	0.5...1.5 / 0.75...1.5 mm <sup>2</sup> 1)

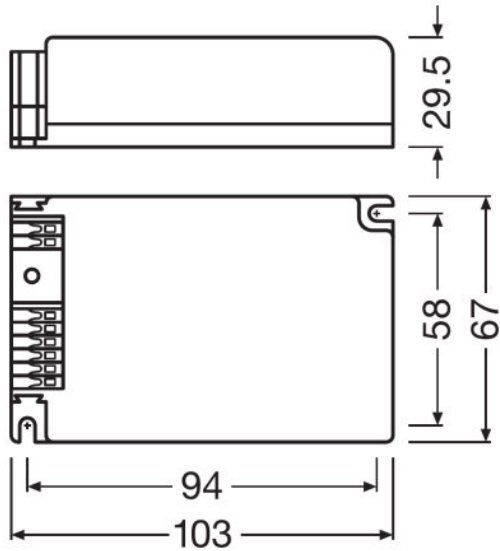
  

Product description	Wire preparation length, input side	Wire preparation length, output side	Height	Width	Length
IT FIT 60/220...240/1A4 CS	7...8 mm	7...8 mm	29.5 mm	67.0 mm	103.0 mm
OT FIT 75/220-240/1A6 CS	7...8 mm	7...8 mm	29.5 mm	67.0 mm	103.0 mm

1) Solid/ Flexible Leads

## Product family datasheet

### Product line drawing



IT FIT 60/220...240/1A4 CS, OT FIT 75/220-240/1A6 CS

### Colors & materials

Product description	Casing material
IT FIT 60/220...240/1A4 CS	Plastic
OT FIT 75/220-240/1A6 CS	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
IT FIT 60/220...240/1A4 CS	-20...+50 °C	70 °C <sup>1)</sup>	110 °C	-40...+85 °C
OT FIT 75/220-240/1A6 CS	-20...+50/-20...+45 °C <sup>3)</sup>	80 °C	110 °C	-20...80 °C

Product description	Permitted rel. humidity during operation
IT FIT 60/220...240/1A4 CS	5...85 % <sup>2)</sup>
OT FIT 75/220-240/1A6 CS	5...85 % <sup>4)</sup>

<sup>1)</sup> Measured on tc point indicated of the product label.

<sup>2)</sup> Maximum 56 days/year at 85 %

<sup>3)</sup> At output current 1200/1350/1500 mA/At output current 1650 mA

<sup>4)</sup> Non-condensing

## Product family datasheet

### Lifespan

Product description	ECG lifetime
IT FIT 60/220...240/1A4 CS	50000 h <sup>1)</sup>
OT FIT 75/220-240/1A6 CS	50000 / 30000 h <sup>2)</sup>

<sup>1)</sup> At maximum  $T_c = 80^\circ\text{C}$  / 10% failure rate

<sup>2)</sup>  $T_c = 70^\circ\text{C}$ , with max. 10% failure rate /  $T_c = 80^\circ\text{C}$ , with max. 10% failure rate

### Additional product data

Product description	Encapsulated	Predecessor EAN
IT FIT 60/220...240/1A4 CS	No	
OT FIT 75/220-240/1A6 CS		4052899917583

### Capabilities

Product description	Dimmable	Overheating protection	Overload protection
IT FIT 60/220...240/1A4 CS	No	Automatic switch off, reversible	Automatic reversible
OT FIT 75/220-240/1A6 CS	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
IT FIT 60/220...240/1A4 CS	Automatic reversible	Yes	No	2.0 m <sup>1)</sup>
OT FIT 75/220-240/1A6 CS	Automatic reversible	Yes	No	2.0 m <sup>1)</sup>

Product description	Suitable for fixtures with prot. class	Type of connection, input side	Type of connection, output side
IT FIT 60/220...240/1A4 CS	I / II	Push terminal	Push terminal
OT FIT 75/220-240/1A6 CS	I / II	Push terminal	Push terminal

Product description	Number of channels	Programming interface	Suitable for through-wiring
IT FIT 60/220...240/1A4 CS	1	Dipswitch	Yes with optional cable clamp
OT FIT 75/220-240/1A6 CS	1		Yes with optional cable clamp

<sup>1)</sup> Output wires must be routed as close as possible to each other

### Programming

Product description	Programming device
IT FIT 60/220...240/1A4 CS	DIPswitch
OT FIT 75/220-240/1A6 CS	DIPswitch

## Product family datasheet

### Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection	Protection class
IT FIT 60/220...240/1A4 CS	ENEC 05 / CCC / RCM / 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 61000-3-3/Acc. to IEC 61547	IP20	II
OT FIT 75/220-240/1A6 CS	CCC / CE / RCM / ENEC 05	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547/Acc. to CISPR 15	IP20	II

### Logistical data

Product description	Commodity code
IT FIT 60/220...240/1A4 CS	850440839000
OT FIT 75/220-240/1A6 CS	850440839000

### 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
IT FIT 60/220...240/1A4 CS	19-05-2023	4062172306072	Lead
OT FIT 75/220-240/1A6 CS	25-05-2023	4052899999565	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
IT FIT 60/220...240/1A4 CS	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	c794346c-4129-4db6-8e47-8f306063f90d
OT FIT 75/220-240/1A6 CS	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	c6979e2a-02ee-44da-a72b-c8b4cdba2eef

### Application advice










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

### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

## Product family datasheet

### Download Data

File	
	User instruction ICUTRONIC LED Power Supply
	User instruction User manual of G15111742 IT FIT 60 1A4 CS
	Certificates IT FIT 60 CS ENEC U6 084117 0132 210423
	CAD data OT FIT 75 1A6 CS STEP 220319
	CAD data PDF OT FIT 75 1A6 CS CAD3PDF 220319
	User instruction OPTOTRONIC LED Power Supply
	Certificates OT FIT 75 CS DEKRA 35 106549 160620
	Declarations of conformity OT FIT CS UK DoC 4290089 150322
	Declarations of conformity OT FIT CS CE 3667905 150322

### 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
4062172306072	IT FIT 60/220...240/1A4 CS	Shipping carton box 20	353 mm x 223 mm x 95 mm	7.48 dm <sup>3</sup>	3410.00 g
4052899999565	OT FIT 75/220-240/1A6 CS	Shipping carton box 20	353 mm x 223 mm x 101 mm	7.95 dm <sup>3</sup>	3742.00 g

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### Logistical Data

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.

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### Accessories Optional

Product description	Accessory name	Accessory code
IT FIT 60/220...240/1A4 CS	OT CABLE CLAMP B-STYLE	▶ 4052899077881
IT FIT 60/220...240/1A4 CS	OT CABLE CLAMP B-STYLE TL	▶ 4052899948051
OT FIT 75/220-240/1A6 CS	OT CABLE CLAMP B-STYLE	▶ 4052899077881
OT FIT 75/220-240/1A6 CS	OT CABLE CLAMP B-STYLE TL	▶ 4052899948051

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### Disclaimer

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