ICUTRONIC IT FIT CS L (SELV)

Linear / Area Constant Current – Non dimmable



Areas of application

- Linear and area lighting
- Office, industrial and shop lighting

Product family benefits

- Flexible with 1 driver offers 4 output currents
- High quality light with very low ripple
- Very high efficiency up to 87%
- Enable slim fixture design with flat 21 mm height metal housing
- Long lasting and high reliability
- SELV driver

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Product family features

- Output current up to 1600 mA
- Output power up to 75 W
- Low THD <15% @ full load
- Input voltage: 220 – 240 VAC
- Ambient temp range ta: -25 to +50 °C
- Wide output voltage range
- Low LF-ripple < 5%
- Very high efficiency up to 87%
- Fixed output (no dimming)
- 5 years guarantee*

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Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Current set	Power factor λ
IT FIT 18/220...240/350 CS L	220...240 V	50/60 Hz	198...264 V	DipSwitch	≥ 0.96
IT FIT 18/220...240/350 CS L	220...240 V	50/60 Hz	198...264 V	DipSwitch	0.77C...0.98
IT FIT 40/220...240/800 CS L	220...240 V	50/60 Hz	198...264 V	DipSwitch	0.77C...0.98
IT FIT 60/220...240/1A2 CS L	220...240 V	50/60 Hz	198...264 V	DipSwitch	0.83C...0.98
IT FIT 75/220...240/1A6 CS L	220...240 V	50/60 Hz	198...264 V	DipSwitch	0.94C...0.98

Product description	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 16 A (C)
IT FIT 18/220...240/350 CS L	3.15 W [1)]	11.6 A [2)]	45	70	72	112
IT FIT 18/220...240/350 CS L	3.15 W [1)]	11.6 A [6)]	45	71	73	113
IT FIT 40/220...240/800 CS L	6.17 W	13.6 A [6)]	20	32	33	51
IT FIT 60/220...240/1A2 CS L	8.35 W [8)]	13.6 A [6)]	15	23	23	36
IT FIT 75/220...240/1A6 CS L	9.77 W	19.8 A [6)]	12	18	19	29

Product description	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage
IT FIT 18/220...240/350 CS L	-	2 kV	1 kV	23...51 V
IT FIT 18/220...240/350 CS L	-	2 kV	1 kV	23...54 V
IT FIT 40/220...240/800 CS L	-	2 kV	1 kV	23...54 V
IT FIT 60/220...240/1A2 CS L	-	2 kV	1 kV	23...54 V
IT FIT 75/220...240/1A6 CS L	-	2 kV	1 kV	23...54 V

Product description	Nominal output current	Output ripple current (100 Hz)	Output PSTLM
IT FIT 18/220...240/350 CS L	200 / 250 / 300 / 350 mA [3)]	< 5 %	≤1
IT FIT 18/220...240/350 CS L	200 / 250 / 300 / 350 mA [7)]	< 5 %	≤1
IT FIT 40/220...240/800 CS L	500 / 600 / 700 / 800 mA [7)]	< 5 %	≤1
IT FIT 60/220...240/1A2 CS L	900 / 1050 / 1100 / 1200 mA [7)]	< 5 %	≤1
IT FIT 75/220...240/1A6 CS L	1300 / 1400 / 1500 / 1600 mA [7)]	< 5 %	≤1

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Product description	Output SVM	Nominal output power	Maximum output power	Default output current
IT FIT 18/220...240/350 CS L	≤0.4	4.6...17.8 W	17.8 W	350 mA
IT FIT 18/220...240/350 CS L	≤0.4	4.6...18.9 W	18.9 W	
IT FIT 40/220...240/800 CS L	≤0.4	11.5...43.2 W	43.2 W	
IT FIT 60/220...240/1A2 CS L	≤0.4	20.7...61.2 W	61.2 W	
IT FIT 75/220...240/1A6 CS L	≤0.4	29.9-76.8 W	76.8 W	1600 mA

Product description	Total harmonic distortion	Output current tolerance	U-OUT (working voltage)	Efficiency in full-load
IT FIT 18/220...240/350 CS L	< 15 % [4]	±7.5 %	< 250 V	
IT FIT 18/220...240/350 CS L	< 15 %	±7.5 %	< 60 V	84 % [5]
IT FIT 40/220...240/800 CS L	< 15 %	±7.5 %	< 60 V	86 % [5]
IT FIT 60/220...240/1A2 CS L	< 15 %	±7.5 %	< 60 V	87 % [5]
IT FIT 75/220...240/1A6 CS L	< 15 %	±7.5 %	< 60 V	88 % [5]

[1] At 230 V, Input power 22 W max.

[2] t_{width} = 220 µs (measured at 50 % I_{peak})

[3] ±7.5%

[4] At full load

[5] at 230 V, 50 Hz

[6] t_{width} = 220 µs typical (measured at 50 % I_{peak})

[7] ±5%

[8] At 230 V, Input power 47 W max

Dimensions & weight

Product description	Mounting hole spacing, length	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side	Wire preparation length, output side
IT FIT 18/220...240/350 CS L	200.0 mm	0.5...1.5 / 0.75...1.5 mm² [1]	0.5...1.5 / 0.75...1.5 mm² [1]	8.5...9.5 mm	8.5...9.5 mm
IT FIT 18/220...240/350 CS L	200.0 mm	0.5...1.5 / 0.75...1.5 mm² [1]	0.5...1.5 / 0.75...1.5 mm² [1]	7...8 mm	7...8 mm
IT FIT 40/220...240/800 CS L	200.0 mm	0.5...1.5 / 0.75...1.5 mm² [1]	0.5...1.5 / 0.75...1.5 mm² [1]	7...8 mm	7...8 mm
IT FIT 60/220...240/1A2 CS L	200.0 mm	0.5...1.5 / 0.75...1.5 mm² [1]	0.5...1.5 / 0.75...1.5 mm² [1]	7...8 mm	7...8 mm
IT FIT 75/220...240/1A6 CS L	270.0 mm	0.5...1.5 / 0.75...1.5 mm² [1]	0.5...1.5 / 0.75...1.5 mm² [1]	7...8 mm	7...8 mm

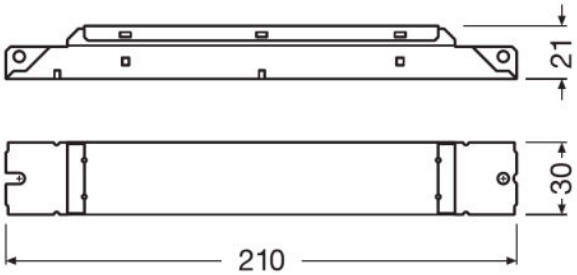
Product description	Height	Width	Length	Product weight
IT FIT 18/220...240/350 CS L	21.0 mm	NaN mm	NaN mm	

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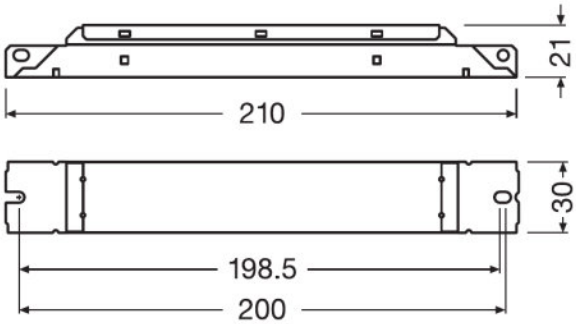
Product description	Height	Width	Length	Product weight
IT FIT 18/220...240/350 CS L	21.0 mm	30.0 mm	210.0 mm	110.00 g
IT FIT 40/220...240/800 CS L	21.0 mm	30.0 mm	210.0 mm	122.50 g
IT FIT 60/220...240/1A2 CS L	21.0 mm	30.0 mm	210.0 mm	139.50 g
IT FIT 75/220...240/1A6 CS L	21.0 mm	30.0 mm	280.0 mm	192.50 g

[1] Solid/ Flexible Leads

Product line drawing

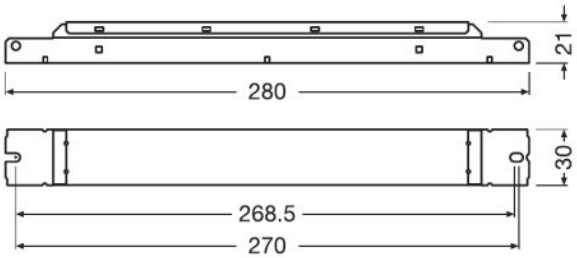


IT FIT 18/220...240/350 CS L



IT FIT 18/220...240/350 CS L, IT FIT 40/220...240/800 CS L, IT FIT 60/220...240/1A2 CS L

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IT FIT 75/220...240/1A6 CS L

Colors & materials

Product description	Casing material
IT FIT 18/220...240/350 CS L	Metal
IT FIT 18/220...240/350 CS L	Metal
IT FIT 40/220...240/800 CS L	Metal
IT FIT 60/220...240/1A2 CS L	Metal
IT FIT 75/220...240/1A6 CS L	Metal

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 18/220...240/350 CS L	-25...+50 °C	70 °C	110 °C	-25...80 °C
IT FIT 18/220...240/350 CS L	-25...+50 °C	75 °C	110 °C	-25...80 °C
IT FIT 40/220...240/800 CS L	-25...+50 °C	75 °C	110 °C	-25...80 °C
IT FIT 60/220...240/1A2 CS L	-25...+50 °C	75 °C	110 °C	-25...80 °C
IT FIT 75/220...240/1A6 CS L	-25...+50 °C	75 °C	110 °C	-25...80 °C

Product description	Permitted rel. humidity during operation
IT FIT 18/220...240/350 CS L	5...85 % [1)]
IT FIT 18/220...240/350 CS L	5...85 % [2)]
IT FIT 40/220...240/800 CS L	5...85 % [2)]
IT FIT 60/220...240/1A2 CS L	5...85 % [2)]
IT FIT 75/220...240/1A6 CS L	5...85 % [2)]

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1) Non-condensing

2) Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
IT FIT 18/220...240/350 CS L	50000 / 100000 h 1)
IT FIT 18/220...240/350 CS L	50000 / 100000 h 2)
IT FIT 40/220...240/800 CS L	50000 / 100000 h 2)
IT FIT 60/220...240/1A2 CS L	50000 / 100000 h 2)
IT FIT 75/220...240/1A6 CS L	50000 / 100000 h 2)

1) T_c = 70°C, with max. 10% failure rate

2) At T_c = 75°C / 10% failure rate / At T_c = 65°C / 10% failure rate

Additional product data

Product description	Encapsulated	Successor EAN	Predecessor EAN
IT FIT 18/220...240/350 CS L	No	4062172212663	
IT FIT 18/220...240/350 CS L	No		4052899617421
IT FIT 40/220...240/800 CS L	No		4052899617438
IT FIT 60/220...240/1A2 CS L	No		4052899617445
IT FIT 75/220...240/1A6 CS L	No		4052899617452

Capabilities

Product description	Overheating protection	Overload protection	Short-circuit protection	No-load proof
IT FIT 18/220...240/350 CS L	Automatic reversible	Automatic reversible	Automatic reversible	Yes
IT FIT 18/220...240/350 CS L	Automatic reversible	Automatic reversible	Automatic reversible	Yes
IT FIT 40/220...240/800 CS L	Automatic reversible	Automatic reversible	Automatic reversible	Yes
IT FIT 60/220...240/1A2 CS L	Automatic reversible	Automatic reversible	Automatic reversible	Yes
IT FIT 75/220...240/1A6 CS L	Automatic reversible	Automatic reversible	Automatic reversible	Yes

Product description	Max. cable length to lamp/LED module	Suitable for fixtures with prot. class	Number of channels	Dimmable
IT FIT 18/220...240/350 CS L	2.0 m 1)	I / II	1	
IT FIT 18/220...240/350 CS L	2.0 m 1)	I / II	1	No
IT FIT 40/220...240/800 CS L	2.0 m 1)	I / II	1	No
IT FIT 60/220...240/1A2 CS L	2.0 m 1)	I / II	1	No
IT FIT 75/220...240/1A6 CS L	2.0 m 1)	I / II	1	No

Product description	Intended for no-load operation
IT FIT 18/220...240/350 CS L	
IT FIT 18/220...240/350 CS L	No

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Product description	Intended for no-load operation
IT FIT 40/220...240/800 CS L	No
IT FIT 60/220...240/1A2 CS L	No
IT FIT 75/220...240/1A6 CS L	No

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

Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection
IT FIT 18/220...240/350 CS L	CE / ENEC 05 / EAC / CCC / BIS / RCM [1]	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	
IT FIT 18/220...240/350 CS L	CE / ENEC / CCC / RCM / BIS / TISI / EAC / UKCA [1]	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 IEC 6100-4-5	IP20
IT FIT 40/220...240/800 CS L	CE / ENEC / CCC / RCM / BIS / TISI / EAC / UKCA [1]	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 IEC 6100-4-5	IP20
IT FIT 60/220...240/1A2 CS L	CE / ENEC / CCC / RCM / BIS / TISI / EAC / UKCA [1]	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 IEC 6100-4-5	IP20
IT FIT 75/220...240/1A6 CS L	CE / ENEC / CCC / RCM / BIS / TISI / EAC / UKCA	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 IEC 6100-4-5	IP20

[1] In preparation

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

Product description	Date of Declaration	Declaration No. in SCIP database	Primary Article Identifier
IT FIT 18/220...240/350 CS L	21-07-2023	In work	
IT FIT 18/220...240/350 CS L	21-11-2023	86d9a093-d83f-42dd-b323-baa9d78b8080	4062172212663
IT FIT 40/220...240/800 CS L	21-11-2023	f16eac36-f382-4214-8324-958bae65034f	4062172212700
IT FIT 60/220...240/1A2 CS L	21-11-2023	af75408d-f894-4804-a4d3-c377606225b3	4062172212724
IT FIT 75/220...240/1A6 CS L	21-11-2023	55750f64-2217-4efc-b6e8-24e493081c30	4062172212762

Product description	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction
IT FIT 18/220...240/350 CS L			
IT FIT 18/220...240/350 CS L	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
IT FIT 40/220...240/800 CS L	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
IT FIT 60/220...240/1A2 CS L	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
IT FIT 75/220...240/1A6 CS L	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.

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

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	User instruction ICUTRONIC LED Power Supply
	Certificates IT FIT CS L DEKRA 35 113195 030820
	Declarations of conformity IT FIT CS L CE 4205372 161023
	Declarations of conformity IT FIT CS L UK DoC 4281081 040923
	Certificates IT FIT CS L DEKRA 35 117749 080321
	Certificates IT FIT CS L CB NL 71241 080321
	Certificates IT FIT CS L CB NL 100907 231023
	Certificates IT FIT CS L DEKRA 35 120271 201123
	Certificates IT FIT 18 CS L CCC 2020171002003122 201123
	Certificates IT FIT 40 60 CS L CCC 2020171002003126 201123
	Certificates IT FIT 75 CS L CCC 2020171002003127 201123

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
4052899617421	IT FIT 18/220...240/350 CS L	Shipping carton box 20	237 mm x 162 mm x 130 mm	4.99 dm^3	2509.00 g
4062172212663	IT FIT 18/220...240/350 CS L	Shipping carton box 20	237 mm x 162 mm x 130 mm	4.99 dm^3	2509.00 g

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Logistical Data

4062172212700	IT FIT 40/220...240/800 CS L	Shipping carton box 20	237 mm x 162 mm x 130 mm	4.99 dm^3	2759.00 g
4062172212724	IT FIT 60/220...240/1A2 CS L	Shipping carton box 20	237 mm x 162 mm x 130 mm	4.99 dm^3	3099.00 g
4062172212762	IT FIT 75/220...240/1A6 CS L	Shipping carton box 20	307 mm x 162 mm x 130 mm	6.47 dm^3	4215.00 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.

References / Links

* For more information on the multi-level guarantee and the terms and conditions of the guarantee visit https://
- www.inventronics-light.com/multilevel-guarantees

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