

IT FIT 30/220-240/700 CS T-B (NEW)

ICUTRONICS FIT CS Track | Compact constant current LED driver – Non dimmable



Product family features

- AC Supply Voltage 220-240 Vac
- Line frequency: 50 Hz | 60 Hz
- Line voltage: 198...264 V
- SELV LED driver in track adaptor
- Lifetime 50 000 h at tc max
- Dip-switches for easy output current selection
- Low THD <10% @ full load
- Low LF-ripple < 5%

Product family benefits

- Compact size for miniaturized track light luminaire design
- High light quality due to low ripple current
- Three colors available: White, Grey, Black
- High flexibility due to eight different output currents
- High efficiency (up to 90%)

Areas of application

- Shops
- Retail outlets
- Public buildings
- Suitable for luminaires of protection class II
- Suitable for three circuits system

Technical data

Electrical data

Nominal input voltage	220...240 V
Nominal output current	250 mA / 350 mA / 400 mA / 450 mA / 500 mA / 550 mA / 600 mA / 700 mA
Nominal output power	6.75...29.4 W
Nominal output voltage	27...42 V
Maximum output power	29.4 W
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	not relevant
Default output current	700 mA
Device power loss	3.3 W ¹⁾
Efficiency in full-load	90 % ²⁾
Galvanic isolation primary/secondary	SELV
Inrush current	24.8 A ³⁾
Max. ECG no. on circuit breaker 10 A (B)	22
Max. ECG no. on circuit breaker 16 A (B)	36
Output current tolerance	±5 %
Output PSTLM	≤1
Output ripple current (100 Hz)	3 %
Output SVM	≤0.4
Power factor λ	0.96 ⁴⁾
Protective conductor current	<0.7 mA
Surge capability (L-N)	1 kV ⁵⁾
Surge capability (L/N-Ground)	2 kV ⁶⁾
Total harmonic distortion	< 10 % ⁷⁾
U-OUT (working voltage)	60 V
Current set	not relevant

1) At 230 V, Input power 32.7 W max.

2) at 230 V, 50 Hz

3) $t_{width} = 116 \mu s$ typical (measured at 50 % I_{peak})

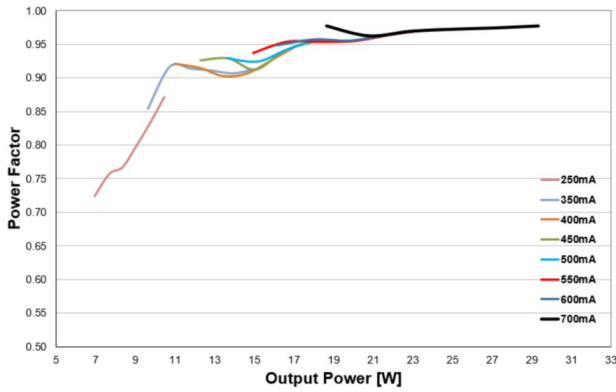
4) Full load at 230 V / 50 Hz

5) L/N

6) L/N – PE acc to EN 61547 (>15 pulses)

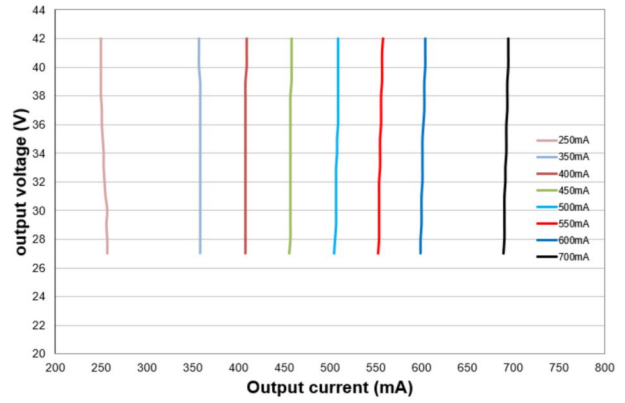
7) Full load, 230V, 50 Hz

Typical Power Factor v Load



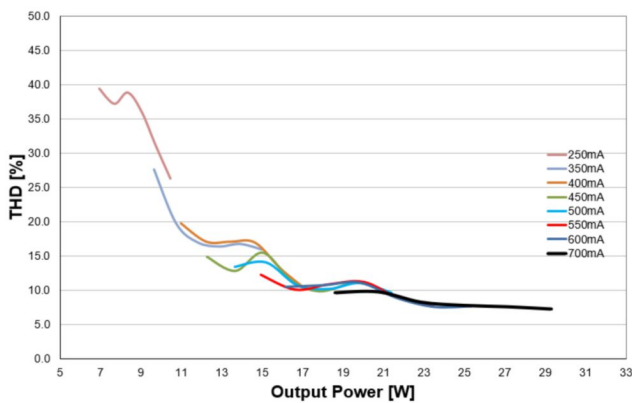
IT FIT 30W CS Track Typical Power factor VS load

Operating Window



IT FIT 30W CS Track Typical Operating window

Typical THD v Load



T FIT 30W CS Track Typical THD VS load

Typical Iout v Rset LEDset2 mode

	250	350	400	450	500	550	600	700
Iout [A]	27	27	27	27	27	27	27	27
U min [V]	42	42	42	42	42	42	42	42
U max [V]	42	42	42	42	42	42	42	42
P min [W]	6.75	9.45	10.8	12.15	13.5	14.85	16.2	18.9
P max [W]	10.5	14.7	16.8	18.9	21	23.1	25.2	29.4
Ta [°C]	35	35	35	35	35	35	35	35
Tc [°C]	70	70	70	70	70	70	70	70
Line Current, nominal @230V [mA]	60	84	92	100	111	120	132	151

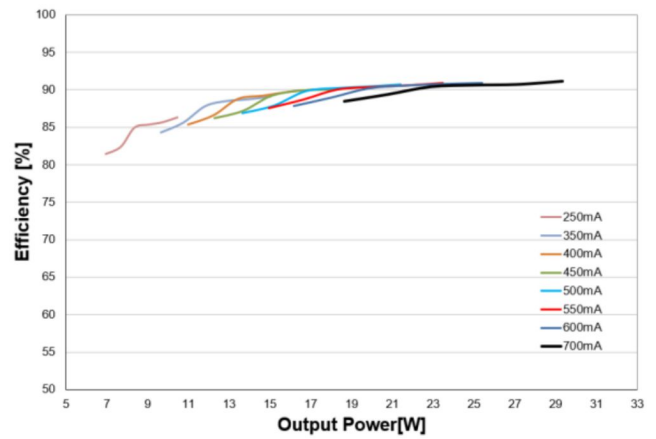
IT FIT 30W CS Track Rated output power and current sets

Typical Iout v Rset LEDset2 mode

PIN1	PIN2	PIN3	Iout(mA)
OFF	OFF	OFF	250
ON	OFF	OFF	350
OFF	ON	OFF	400
OFF	OFF	ON	450
ON	ON	OFF	500
ON	OFF	ON	550
OFF	ON	ON	600
ON	ON	ON	700

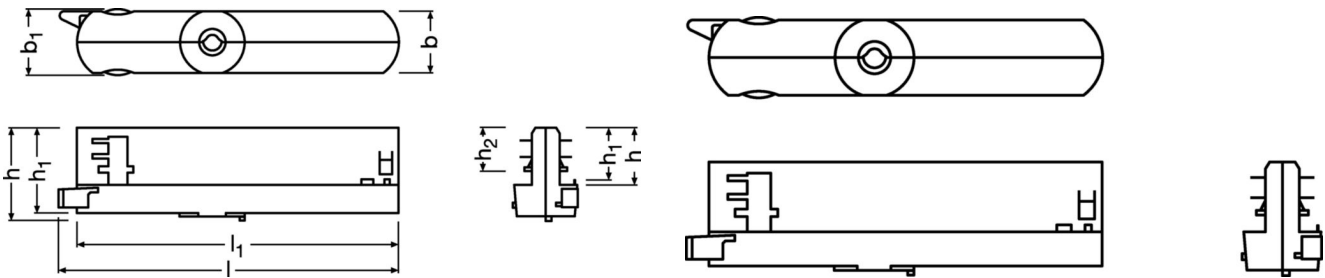
IT FIT 30W CS Track Current selection

Typical Efficiency v Load 230 V 50 Hz



IT FIT 30W CS Track Typical Efficiency VS load

Dimensions & weight



Length	167.0 mm
Height	46.0 mm
Width	33.0 mm
Product weight	108.00 g
Cable cross-section, output side	0.5...1.5 mm ²
Cable/wire length, output side	2000 mm
Wire preparation length, output side	7...8 mm

Colors & materials

Casing material	Plastic
Product color	BLACK RAL 9011

Temperatures & operating conditions

Ambient temperature range	-20...+35 °C
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5...85 % ¹⁾
Temperature range at storage	-20...80 °C ²⁾

1) Maximum 56 days/year at 85 %

2) Cool down before operating

Lifespan

ECG lifetime	50000 h ¹⁾
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1) At maximum $T_c = 70^\circ\text{C}$ / 10% failure rate

Additional product data

Encapsulated	No
Predecessor EAN	4052899617247

Capabilities

Dimmable	No
Max. cable length to lamp/LED module	2.0 m ¹⁾
Overload protection	Automatic reversible
Overheating protection	Automatic reversible
Suitable for emergency lighting	No
Suitable for fixtures with prot. class	II
Type of connection, input side	not relevant
Type of connection, output side	Push terminal
Intended for no-load operation	No
No-load proof	Yes
Number of channels	1
Short-circuit protection	Automatic reversible

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

Programming

Programming device	DIPswitch
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Certificates & standards

Type of protection	IP20
Approval marks – approval	CE / ENEC / RCM / CQC / UKCA
Standards	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

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Declaration No. in SCIP database	In work
Date of Declaration	23-08-2024
Primary Article Identifier	4062172379847 6977078998987
SCIP_STATUS	In work
SCIP_ID	

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.

Additional product information

- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.
- Indication that the lamp control gear relies upon the luminaire enclosure for protection against accidental contact with live parts.
- The max. mechanical loading F_{max} for the track driver mounted on the ceiling is 50N, which should be intended as the whole system inclusive of the weight of luminaires and accessories.
- The max. mechanical loading F_{max} for the track driver mounted on the wall is 25N, which should be intended as the whole system inclusive of the weight of luminaires and accessories.

Download Data

File		
Certificates	PDF	▶IT FIT CS Track ENEC 35 130506
CAD data 3-dim	Compressed	▶CAD of IT FIT CS T
Mandatory Publications	PDF	▶IT FIT CS T CE 4507977 220923
Mandatory Publications	PDF	▶IT FIT CS T UK DoC 4507979 220923
Mandatory Publications	PDF	▶IT FIT 30 CS T ACMA 50 106 964 103 231023
User instruction	PDF	▶IT FIT CS Track CB User Instructions

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172379847	IT FIT 30/220-240/700 CS T-B	Shipping carton box 20 Pieces	378 x 187 x 118 mm	8.34 dm ³	122.95 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

Disclaimer

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