



## Areas of application

- Extra small design for downlights, spotlights and other indoor luminaries
- Suitable for luminaires of protection classes I and II
- Suitable for indoor SELV installations

## Technical data

### Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V <sup>1)</sup>
Nominal input current at 230 V	0.04 A <sup>2)</sup>
Total harmonic distortion	< 15 %
Power factor $\lambda$	0.58C...0.92C
Efficiency in full-load	89 % <sup>3)</sup>
Device power loss	0.9 W <sup>4)</sup>
Inrush current	9.07 A <sup>5)</sup>
Max. ECG no. on circuit breaker 10 A (B)	51
Max. ECG no. on circuit breaker 16 A (B)	81
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV <sup>6)</sup>
Protective conductor current	not relevant
Nominal output voltage	30...40 V
U-OUT (working voltage)	60 V
Nominal output current	90/120/150/180 mA
Default output current	180 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 3 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	2.7...7.2 W
Maximum output power	7.2 W
Galvanic isolation primary/secondary	SELV

1) Safety voltage range

2) At full load, 230 V, 50 Hz

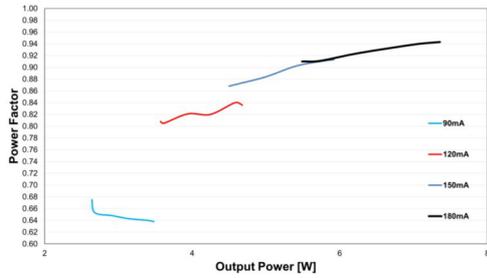
3) at 230 V, 50 Hz

4) At 230 V, Input power 8.1 W max.

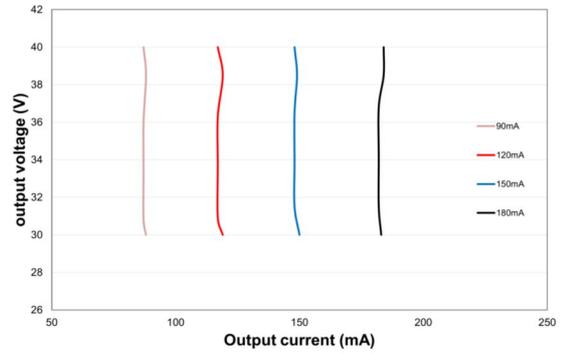
5)  $t_{width} = 178 \mu s$  typical (measured at 50 %  $I_{peak}$ )

6) L/N – PE acc to EN 61547 Cluase 5.7

## Typical Power Factor v Load

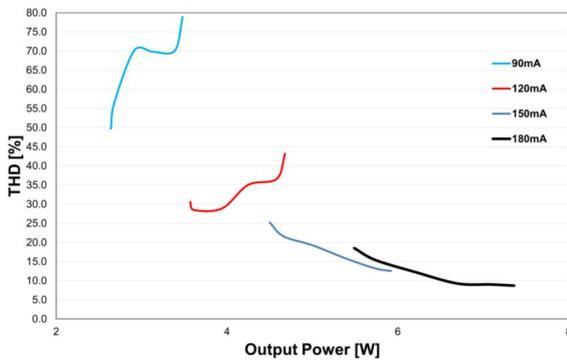


## Operating Window



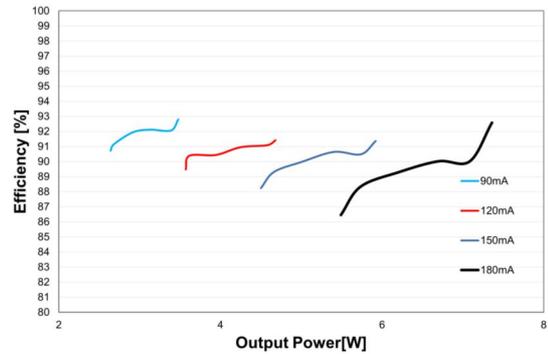
## IT FIT 8 CS MINI Typical Power Factor vs. Load

### Typical THD v Load



## IT FIT 8 CS MINI Operating Window

### Typical Efficiency v Load 230 V 50 Hz



## IT FIT 8 CS MINI Typical THD Vs Load

## IT FIT 8 CS MINI Typical Efficiency vs. Load

## Dimensions & weight

<b>Product weight</b>	45.00 g
<b>Length</b>	80.0 mm
<b>Width</b>	30.0 mm
<b>Height</b>	20.0 mm
<b>Mounting hole spacing, length</b>	78.4 mm
<b>Mounting hole spacing, width</b>	28.4 mm
<b>Cable cross-section, input side</b>	0.5...1.5 mm <sup>2</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup>
<b>Wire preparation length, input side</b>	7...8 mm
<b>Wire preparation length, output side</b>	7...8 mm
<b>Cable/wire length, output side</b>	2000 mm

## Colors & materials

<b>Casing material</b>	Plastic
<b>Product color</b>	White

## Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+60 °C
<b>Maximum temperature at tc test point</b>	75 °C <sup>1)</sup>
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Temperature range at storage</b>	-40...+85 °C
<b>Permitted rel. humidity during operation</b>	5...95 %

1) Measured on tc point indicated of the product label.

## Lifespan

<b>ECG lifetime</b>	50000 / 100000 h <sup>1)</sup>
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1) At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate / At  $T_c = 65^\circ\text{C}$  / 10% failure rate

## Additional product data

<b>Encapsulated</b>	No
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## Capabilities

<b>Programming interface</b>	Dipswitch
<b>Dimmable</b>	No
<b>Constant lumen function</b>	No
<b>Max. cable length to lamp/LED module</b>	2.0 m <sup>1)</sup>
<b>Suitable for fixtures with prot. class</b>	I / II
<b>Suitable for emergency lighting</b>	No
<b>EL CEAG STAR compatible</b>	No
<b>EL DC detection selectable</b>	No
<b>EL EOFi – default value</b>	No
<b>EL EOFi – rated value</b>	No
<b>EL Joker Voltage</b>	No
<b>EL stable current</b>	No
<b>EL switch-over time</b>	No
<b>Type of connection, input side</b>	Push terminal
<b>Type of connection, output side</b>	Push terminal
<b>Suitable for through-wiring</b>	No
<b>Number of channels</b>	1
<b>Overheating protection</b>	Automatic reversible
<b>Overload protection</b>	Automatic reversible
<b>Short-circuit protection</b>	Automatic reversible
<b>Intended for no-load operation</b>	No
<b>No-load proof</b>	Yes

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

## Programming

Programming device	DIPswitch
Tuner4TRONIC	No
Tuner4TRONIC Field App	No
Box programming	No

## Certificates & standards

Approval marks – approval	CE / ENEC / CCC / RCM
Standards	IEC 61347-1 / IEC 61347-2-13 / IEC 62384 / CISPR 15 / IEC 61000-3-2 / IEC 61000-3-3 / IEC 61547
Type of protection	IP20

## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	08-12-2025
Primary Article Identifier	6937186133922
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	a1fb8389-9943-4a51-baae-49da8a4eb9b5
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.

## Download Data

File		
Certificates	PDF	▶IT FIT CS CB DE1 70152B1 100925
Certificates	PDF	▶IT FIT CS ENEC 40060904 100925
CAD data 3-dim	Compressed	▶IT FIT 8 15 CS MINI CAD3PDF 081225
CAD data	Compressed	▶IT FIT 8 15 CS MINI IGS 081225
CAD data	Compressed	▶IT FIT 8 15 CS MINI STEP 081225
Mandatory Publications	PDF	▶IT FIT CS CE 4550537 00 120925
User instruction	PDF	▶UI IT FIT CS MINI

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6937186133922 INVENTRONICS	IT FIT 8/220-240/180 CS MINI	Shipping carton box 20 Pieces	165 x 95 x 115 mm	1.80 dm <sup>3</sup>	48.25 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