

## IT FIT 7/220-240/700 CS I

ICUTRONIC FIT CS I | Compact constant current LED driver – Non dimmable



### Product family features

- Supply voltage: 220...240 V
- Line frequency: 50 Hz | 60 Hz
- Line voltage: 198...264 V

### Product family benefits

- Small housing for flexible luminaire designs
- Flexible current selection via DIP switch
- Reversible overtemperature, overload, short-circuit and open-circuit protection

## 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	0.044 A
Total harmonic distortion	< 10 % <sup>2)</sup>
Power factor $\lambda$	0.43C...0.95 <sup>3)</sup>
Efficiency in full-load	80 % <sup>4)</sup>
Device power loss	2.0 W
Inrush current	< 10 A
Max. ECG no. on circuit breaker 10 A (B)	78
Max. ECG no. on circuit breaker 16 A (B)	125
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Protective conductor current	<0.7 mA
Nominal output voltage	2.5...11 V
U-OUT (working voltage)	60 V
Nominal output current	350 mA / 400 mA / 450 mA / 500 mA / 550 mA / 600 mA / 650 mA / 700 mA <sup>5)</sup>
Default output current	700 mA
Output current tolerance	$\pm 7.5$ %
Output ripple current (100 Hz)	< 5 % <sup>6)</sup>
Output PSTLM	$\leq 1$
Output SVM	$\leq 0.4$
Nominal output power	0.88...7.7 W
Maximum output power	7.7 W
Galvanic isolation primary/secondary	SELV

1) Safety voltage range

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

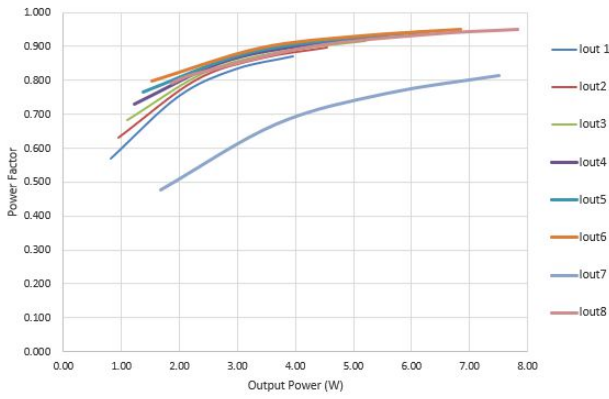
3) Full load at 230 V / 50 Hz

4) at 230 V, 50 Hz

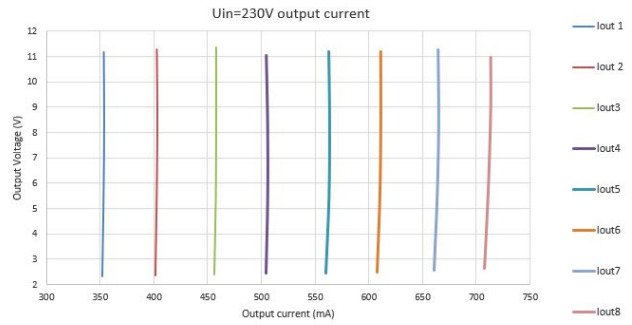
5)  $\pm 7.5$  %

6) Ripple average at 100 Hz

## Typical Power Factor v Load

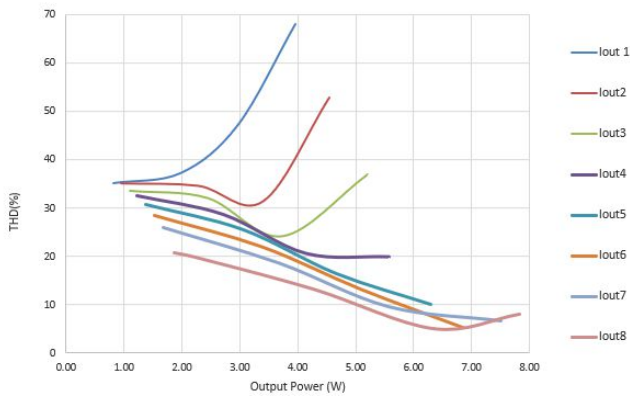


## Operating Window



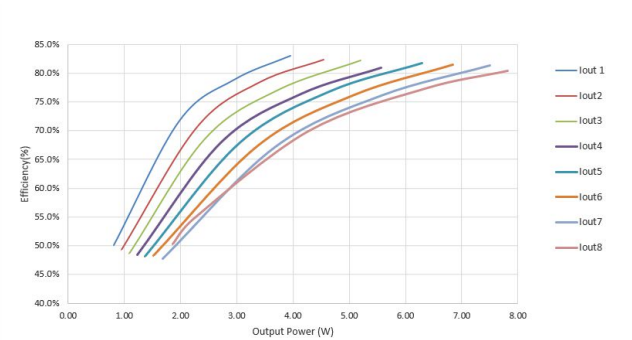
## IT FIT 7 700 CS I Typical Power Factor vs. Load

### Typical THD v Load



## IT FIT 7 700 CS I Operating Window

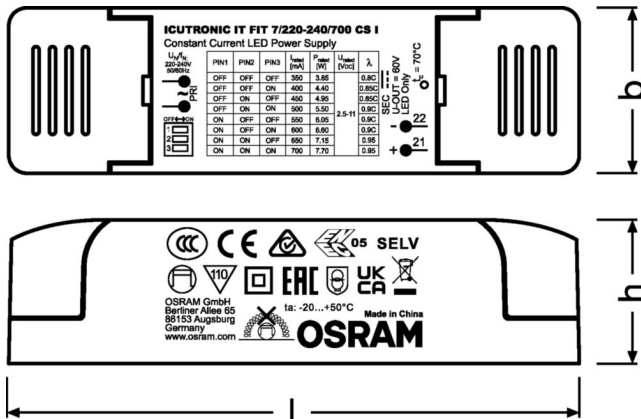
### Typical Efficiency v Load 230 V 50 Hz



## IT FIT 7 700 CS I Typical THD Vs Load

## IT FIT 7 700 CS I Typical Efficiency vs. Load (230 V / 50 Hz)

## Dimensions & weight



Product weight	54.00 g
Length	104.0 mm
Width	30.0 mm
Height	26.0 mm
Mounting hole spacing, length	89.4 mm
Mounting hole spacing, width	22.0 mm
Cable cross-section, input side	0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> 1)
Cable cross-section, output side	0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> 1)
Wire preparation length, input side	7...8 mm
Wire preparation length, output side	7...8 mm
Cable/wire length, output side	2000 mm

1) Solid/ Flexible Leads

## Colors & materials

Casing material	Plastic
Product color	White

## Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	70 °C 1)
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % 2)

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

2) Maximum 56 days/year at 85 %

## Lifespan

<b>ECG lifetime</b>	50000 h <sup>1)</sup>
---------------------	-----------------------

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

## Additional product data

<b>Encapsulated</b>	No
---------------------	----

## Capabilities

<b>Programming interface</b>	Dipswitch
<b>Dimmable</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>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	not relevant
Tuner4TRONIC Field App	not relevant

## Certificates & standards

Approval marks – approval	ENEC 05 / CCC / CE / RCM
Standards	IEC 61347-1 / IEC 61347-2-13 / IEC 62384 / IEC 61000-3-2 / IEC 61000-3-3 / IEC 61547
Type of protection	IP20

## Logistical data

Commodity code	85044083900
----------------	-------------

## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	31-03-2026
Primary Article Identifier	4062172199285   6977770437463
Declaration No. in SCIP database	In work
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.

## Download Data

File		
CAD data 3-dim	Compressed	▶ IT FIT CS I CAD3PDF 210521
CAD data	Compressed	▶ IT FIT CS I IGS 210521
CAD data	Compressed	▶ IT FIT 4 7 11 15 CS I STEP 210521
User instruction	PDF	▶ UI IT FIT CS I

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6977770437463 INVENTRONICS	IT FIT 7/220-240/700 CS I	Shipping carton box 20 Pieces	220 x 162 x 75 mm	2.67 dm <sup>3</sup>	58.25 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

## Disclaimer

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