

## IT FIT 7/220-240/700 CS I (NEW)

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
- According to EN 61347-1, 61347-2-13, 62384
- RI suppression according to CISPR 15
- Line harmonics according to IEC 61000-3-2
- Immunity according to IEC 61547

### 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
Nominal output current	350 mA / 400 mA / 450 mA / 500 mA / 550 mA / 600 mA / 650 mA / 700 mA <sup>1)</sup>
Nominal output power	0.88...7.7 W
Nominal output voltage	2.5...11 V
Maximum output power	7.7 W
Mains frequency	50/60 Hz
Input voltage AC	198...264 V <sup>2)</sup>
Default output current	700 mA
Efficiency in full-load	80 % <sup>3)</sup>
Galvanic isolation primary/secondary	SELV
Inrush current	< 10 A
Max. ECG no. on circuit breaker 10 A (B)	78
Max. ECG no. on circuit breaker 16 A (B)	125
Output current tolerance	±7.5 %
Output PSTLM	≤1
Output ripple current (100 Hz)	< 5 % <sup>4)</sup>
Output SVM	≤0.4
Power factor λ	0.43C...0.95 <sup>5)</sup>
Protective conductor current	<0.7 mA
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Total harmonic distortion	< 10 % <sup>6)</sup>
U-OUT (working voltage)	60 V
Current set	DipSwitch

1) ±7.5%

2) Safety voltage range

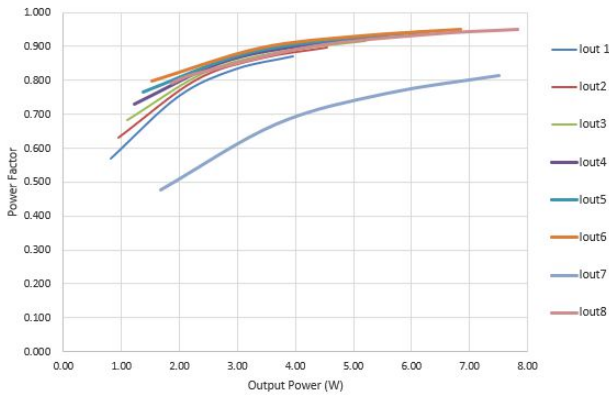
3) at 230 V, 50 Hz

4) Ripple average at 100 Hz

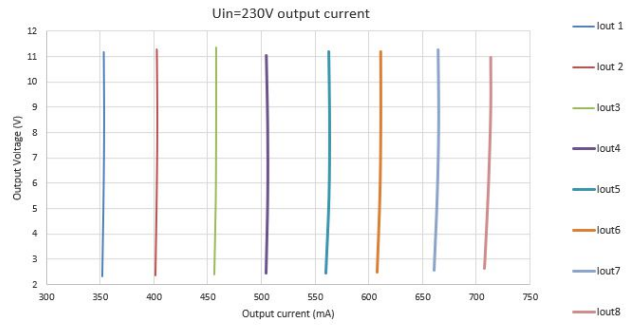
5) Full load at 230 V / 50 Hz

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

## Typical Power Factor v Load

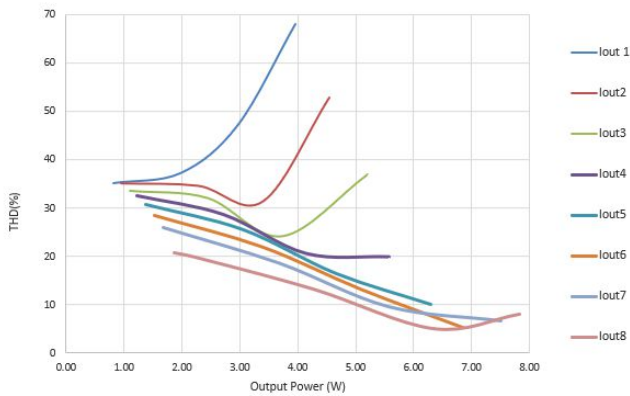


## Operating Window



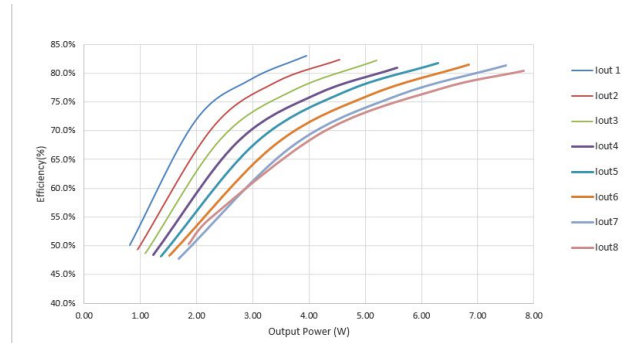
## IT FIT 7 700 CS I Typical Power Factor vs. Load

### Typical THD v Load



## IT FIT 7 700 CS I Operating Window

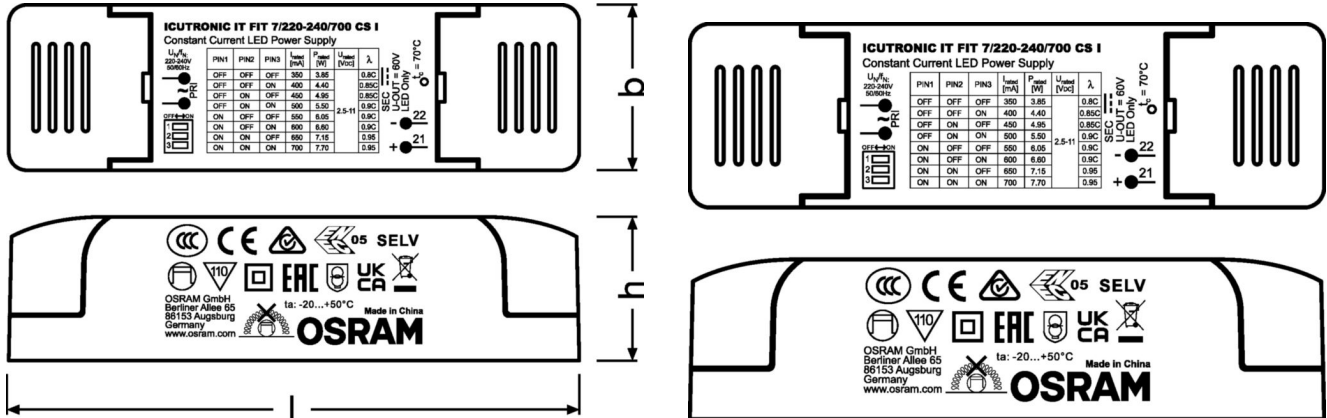
### Typical Efficiency v Load 230 V 50 Hz



## 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



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

1) Solid/ Flexible Leads

## Colors & materials

Casing material	Plastic
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## Temperatures & operating conditions

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

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

## Additional product data

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

<b>Dimmable</b>	No
<b>Max. cable length to lamp/LED module</b>	2.0 m <sup>1)</sup>
<b>Overload protection</b>	Automatic reversible
<b>Overheating protection</b>	Automatic reversible
<b>Suitable for fixtures with prot. class</b>	I / II
<b>Suitable for through-wiring</b>	No
<b>Type of connection, input side</b>	Push terminal
<b>Type of connection, output side</b>	Push terminal
<b>Intended for no-load operation</b>	No
<b>No-load proof</b>	Yes
<b>Number of channels</b>	1
<b>Short-circuit protection</b>	Automatic reversible

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

Type of protection	IP20
Approval marks – approval	ENEC 05 / CCC / CE / RCM
Standards	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

## 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	29-07-2024
Primary Article Identifier	4062172199285
SCIP_STATUS	In work

## 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   RCM NSW28523 070621
Certificates	PDF	▶IT FIT CS   RCM NSW28523 1 070621
Certificates	PDF	▶IT FIT CS   ENEC 35 118614 070621
CAD data 3-dim	Compressed	▶IT FIT CS   CAD3PDF 210521
CAD data	Compressed	▶IT FIT CS   IGS 210521
CAD data	Compressed	▶IT FIT CS   STEP 210521
Mandatory Publications	PDF	▶IT FIT CS   CE 4304021 05 080823
Mandatory Publications	PDF	▶IT FIT CS   UK DoC 4304027 03 220923
User instruction	PDF	▶ICUTRONIC LED Power Supply

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172199285	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.