

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

ICUTRONIC IT FIT CS L (SELV) | Linear / Area Constant Current – Non dimmable



### 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  $t_a$ : -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\*

### 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

### Areas of application

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

## Technical data

### Electrical data

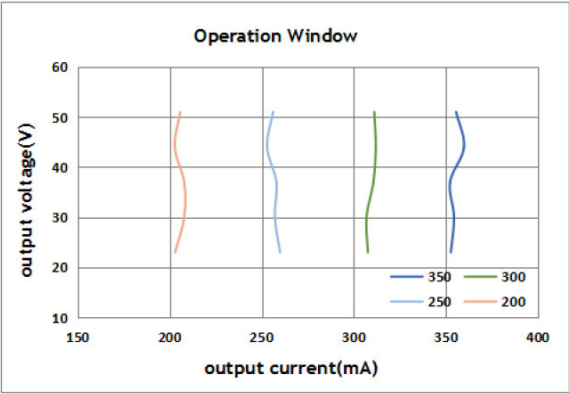
|  |  |
|--|--|
| Nominal input voltage                    | 220...240 V                            |
| Mains frequency                          | 50/60 Hz                               |
| Input voltage AC                         | 198...264 V                            |
| Current set                              | DipSwitch                              |
| Power factor $\lambda$                   | $\geq 0.96$                            |
| Device power loss                        | 3.15 W <sup>1)</sup>                   |
| Inrush current                           | 11.6 A <sup>2)</sup>                   |
| Max. ECG no. on circuit breaker 10 A (B) | 45                                     |
| Max. ECG no. on circuit breaker 10 A (C) | 70                                     |
| Max. ECG no. on circuit breaker 16 A (B) | 72                                     |
| Max. ECG no. on circuit breaker 16 A (C) | 112                                    |
| Max. ECG no. on circuit breaker 25 A (B) | -                                      |
| Surge capability (L/N-Ground)            | 2 kV                                   |
| Surge capability (L-N)                   | 1 kV                                   |
| Nominal output voltage                   | 23...51 V                              |
| Nominal output current                   | 200 / 250 / 300 / 350 mA <sup>3)</sup> |
| Output ripple current (100 Hz)           | < 5 %                                  |
| Output PSTLM                             | $\leq 1$                               |
| Output SVM                               | $\leq 0.4$                             |
| Nominal output power                     | 4.6...17.8 W                           |
| Maximum output power                     | 17.8 W                                 |
| U-OUT (working voltage)                  | < 250 V                                |
| Total harmonic distortion                | < 15 % <sup>4)</sup>                   |
| Output current tolerance                 | $\pm 7.5$ %                            |
| Default output current                   | 350 mA                                 |

<sup>1)</sup> At 230 V, Input power 22 W max.

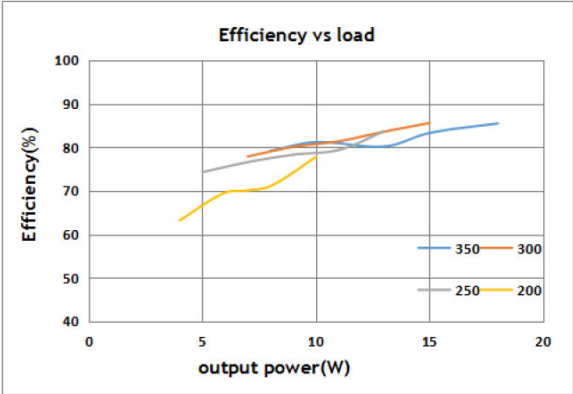
<sup>2)</sup>  $t_{\text{width}} = 220 \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

<sup>3)</sup>  $\pm 7.5\%$

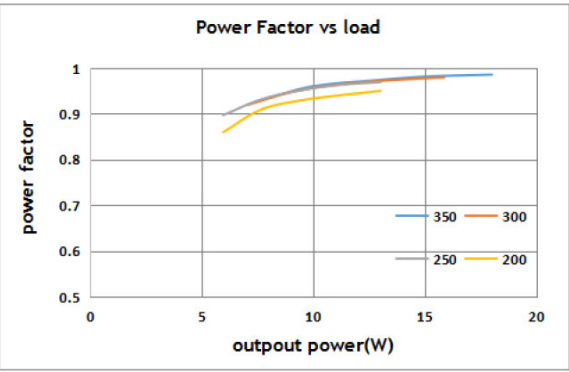
<sup>4)</sup> At full load



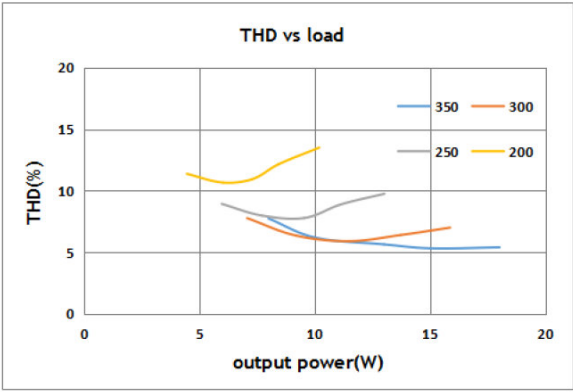
IT FIT 18 CS L Operating Window



IT FIT 18 CS L Typical Efficiency vs. Load



IT FIT 18 CS L Typical Power Factor vs. Load



IT FIT 18 CS L Typical THD Vs Load

Dimensions & weight



|                                      |  |
|--------------------------------------|--|
| Mounting hole spacing, length        | 200.0 mm   |
| Cable cross-section, input side      | 0.5...1.5 / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup> |
| Cable cross-section, output side     | 0.5...1.5 / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup> |
| Wire preparation length, input side  | 8.5...9.5 mm   |
| Wire preparation length, output side | 8.5...9.5 mm   |
| Length                               | NaN mm   |
| Width                                | NaN mm   |
| Height                               | 21.0 mm  |

<sup>1)</sup> Solid/ Flexible Leads

Colors & materials

|                 |       |
|-----------------|-------|
| Casing material | Metal |
|-----------------|-------|

Temperatures & operating conditions

|  |                        |
|--|------------------------|
| Ambient temperature range                | -25...+50 °C           |
| Maximum temperature at tc test point     | 70 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Temperature range at storage             | -25...80 °C            |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

<sup>1)</sup> Non-condensing

Lifespan

|              |                                |
|--------------|--------------------------------|
| ECG lifetime | 50000 / 100000 h <sup>1)</sup> |
|--------------|--------------------------------|

<sup>1)</sup> T<sub>c</sub> = 70°C, with max. 10% failure rate

Additional product data

|               |               |
|---------------|---------------|
| Encapsulated  | No            |
| Successor EAN | 4062172212663 |

Capabilities

|  |                      |
|--|----------------------|
| Overheating protection                 | Automatic reversible |
| Overload protection                    | Automatic reversible |
| Short-circuit protection               | Automatic reversible |
| No-load proof                          | Yes                  |
| Max. cable length to lamp/LED module   | 2.0 m <sup>1)</sup>  |
| Suitable for fixtures with prot. class | I / II               |
| Number of channels                     | 1                    |

<sup>1)</sup> Output wires must be routed as close as possible to each other

Certificates & standards





|                           |  |
|---------------------------|--|
| Approval marks – approval | CE / ENEC 05 / EAC / CCC / BIS / RCM <sup>1)</sup>   |
| 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 |

<sup>1)</sup> In preparation

Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |            |
|---|------------|
| Date of Declaration   | 21-07-2023 |
| Declaration No. in SCIP database                                      | In work    |

Download Data

| File  |   |
|---|---|
|  | User instruction<br>ICUTRONIC LED Power Supply                  |
|  | Certificates<br>IT FIT CS L DEKRA 35 113195 030820              |
|  | Declarations of conformity<br>IT FIT CS L CE 4205372 161023     |
|  | Declarations of conformity<br>IT FIT CS L UK DoC 4281081 040923 |

# Product datasheet

## 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<br>20    | 237 mm x 162 mm x 130 mm             | 4.99 dm <sup>3</sup> | 2509.00 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>

## Disclaimer

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