

The trusted value of OSRAM Digital Systems continues with Inventronics Global – where experience meets innovation.

## OT FIT 40/220-240/1A0 CS PC

OPTOTRONIC Phase-cut OT FIT | Compact constant current LED driver – Dimmable



### Product family features

- Cable clamp housing for independent mounting
- Dimmable on the leading edge and trailing edge
- Housing for independent installation

### Product family benefits

- Compatible with the most common leading-edge and trailing-edge phase dimmers
- Flexible current setting (DIPswitch – 2 to 4 currents)
- Flicker-free dimming
- Higher quality of light thanks to < 5% output ripple current
- Housing from 80% recycled plastic

### Areas of application

- Decorative illumination
- Downlights, flat luminaires
- Hospitality
- Living areas
- Museums, residential buildings
- Offices
- Shop lighting
- Suitable for indoor SELV installations
- Suitable for luminaires of protection class I and II

### 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           | 0.22 A                             |
| Total harmonic distortion                | < 20 % <sup>2)</sup>               |
| Power factor $\lambda$                   | 0.90C...0.98 <sup>3)</sup>         |
| Efficiency in full-load                  | 85 % <sup>4)</sup>                 |
| Device power loss                        | 6.7 W <sup>5)</sup>                |
| Inrush current                           | < 10 A <sup>6)</sup>               |
| Max. ECG no. on circuit breaker 10 A (B) | 18                                 |
| Max. ECG no. on circuit breaker 16 A (B) | 28                                 |
| Surge capability (L-N)                   | 1 kV                               |
| Surge capability (L/N-Ground)            | 2 kV                               |
| Protective conductor current             | <0.7 mA                            |
| Nominal output voltage                   | 27...40 V                          |
| U-OUT (working voltage)                  | 60 V                               |
| Nominal output current                   | 800 mA / 900 mA / 950 mA / 1050 mA |
| Minimum output current                   | 40 mA                              |
| Default output current                   | 1050 mA                            |
| Output current tolerance                 | ±10 %                              |
| Output ripple current (100 Hz)           | < 5 %                              |
| Output PSTLM                             | ≤1                                 |
| Output SVM                               | ≤0.4                               |
| Nominal output power                     | 21.6...42 W                        |
| Maximum output power                     | 42 W                               |
| Galvanic isolation primary/secondary     | SELV                               |

1) Permitted voltage range

2) Full load, 230V, 50 Hz

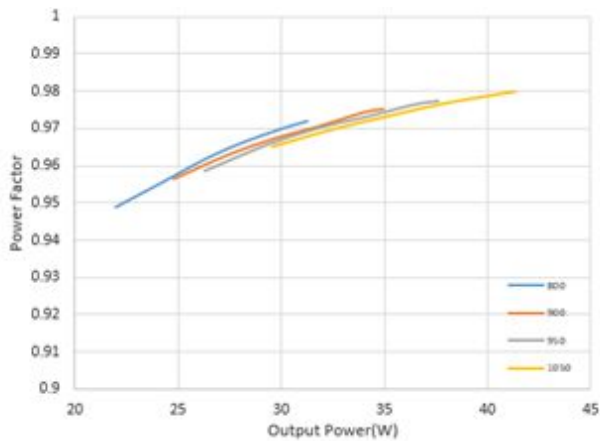
3) Full load at 230 V / Minimum load at 230 V

4) at 230 V, 50 Hz

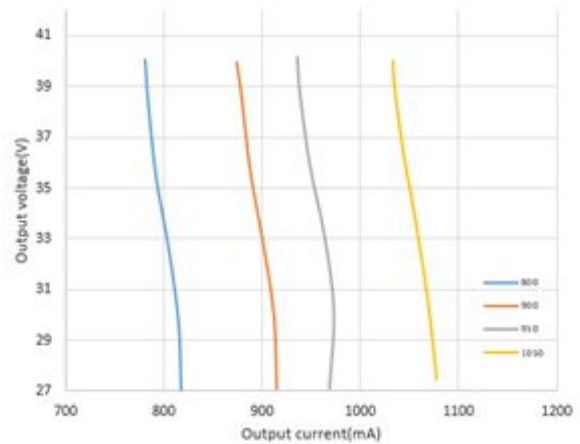
5) At Full load, 230 V, 50 Hz

6)  $t_{\text{width}} = 100 \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

Typical Power Factor v Load



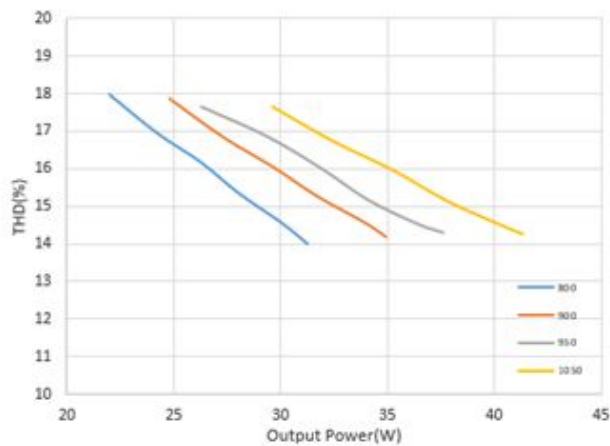
Operating Window



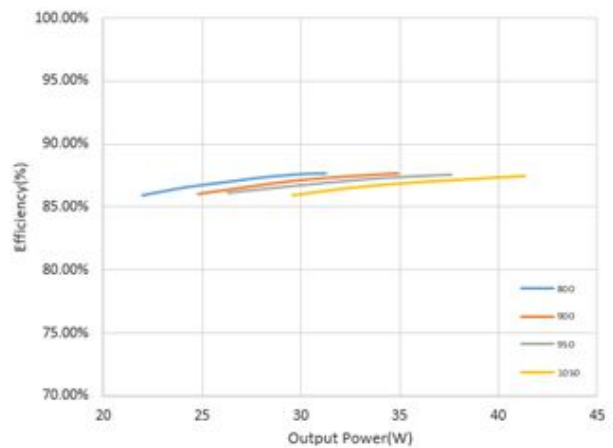
OT FIT 40 CS PC Typical Power Factor vs. Load

OT FIT 40 CS PC Operating Window

Typical THD v Load



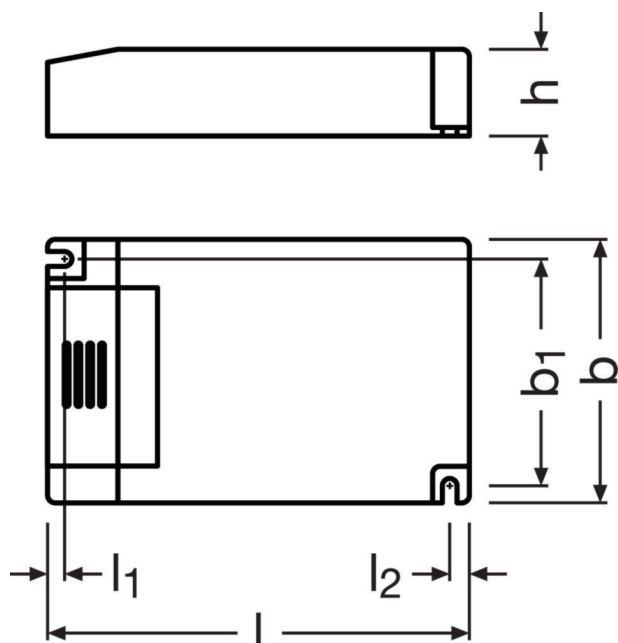
Typical Efficiency v Load 230 V 50 Hz



OT FIT 40 CS PC Typical THD Vs Load

OT FIT 40 CS PC Typical Efficiency vs. Load

## Dimensions & weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Product weight                       | 130.00 g                  |
| Length                               | 108.0 mm                  |
| Width                                | 67.0 mm                   |
| Height                               | 22.0 mm                   |
| Mounting hole spacing, length        | 99.0 mm                   |
| Mounting hole spacing, width         | 58.0 mm                   |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup> |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2</sup> |
| Wire preparation length, input side  | 9.0...10.0 mm             |
| Wire preparation length, output side | 9.0...10.0 mm             |
| Cable/wire length, output side       | 2000 mm                   |

## Colors & materials

|                 |         |
|-----------------|---------|
| Casing material | Plastic |
|-----------------|---------|

## Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -20...+50 °C           |
| Maximum temperature at tc test point     | 80 °C <sup>1)</sup>    |
| Max.housing temperature in case of fault | 110 °C                 |
| Temperature range at storage             | -20...80 °C            |
| Permitted rel. humidity during operation | 5...85 % <sup>2)</sup> |

1) Maximum at the Tc-point

2) Non-condensing

### Lifespan

|              |                                 |
|--------------|---------------------------------|
| ECG lifetime | 35000 h / 50000 h <sup>1)</sup> |
|--------------|---------------------------------|

1) At maximum  $T_c = 80^\circ\text{C}$  / 10% failure rate / At maximum  $T_c = 70^\circ\text{C}$  / 10% failure rate

### Additional product data

|              |    |
|--------------|----|
| Encapsulated | No |
|--------------|----|

### Capabilities

|                                        |                         |
|----------------------------------------|-------------------------|
| Dimmable                               | Yes                     |
| Dimming interface                      | Phase Cut <sup>1)</sup> |
| Dimming range                          | 5...100 %               |
| Dimming method                         | Amplitude Modulation    |
| Max. cable length to lamp/LED module   | 2.0 m <sup>2)</sup>     |
| Suitable for fixtures with prot. class | I / II                  |
| Type of connection, input side         | Push terminal           |
| Type of connection, output side        | Push terminal           |
| Suitable for through-wiring            | No                      |
| Number of channels                     | 1                       |
| Overheating protection                 | Automatic reversible    |
| Overload protection                    | Automatic reversible    |
| Short-circuit protection               | Automatic reversible    |
| Intended for no-load operation         | No                      |
| No-load proof                          | Yes                     |

1) Leading edge / Trailing edge

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

### Programming

|                    |           |
|--------------------|-----------|
| Programming device | DIPswitch |
|--------------------|-----------|

### Certificates & standards

|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| Approval marks – approval | CE                                                                                   |
| Standards                 | IEC 61347-1 / IEC 61347-2-13 / IEC 62384 / IEC 61000-3-2 / IEC 61547 / IEC 61000-3-3 |
| 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                                                   | 16-05-2025                    |
| Primary Article Identifier                                            | 4052899617261   6937186144355 |
| 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                   |            |                                           |
|------------------------|------------|-------------------------------------------|
| Certificates           | PDF        | ▶OT FIT CS PC EAC B 02474 20 110221       |
| Certificates           | PDF        | ▶OT FIT 40 CS PC ENEC 35 114114 01 040723 |
| Certificates           | PDF        | ▶OT FIT 40 CS PC RCM GMA 507142 EA 231023 |
| CAD data 3-dim         | Compressed | ▶OT FIT 40 CS PC CAD3PDF 290621           |
| CAD data               | Compressed | ▶OT FIT 40 CS PC STEP 290621              |
| Mandatory Publications | PDF        | ▶OT FIT CS PC LR CS CE 3789414 14 040225  |
| Mandatory Publications | PDF        | ▶OT FIT CS PC UK DoC 4290101 06 240923    |
| User instruction       | PDF        | ▶UI OT FIT 40 CS PC                       |

#### Logistical Data

| Product code           | Product description            | Packaging unit<br>(Pieces/Unit)  | Dimensions (length<br>x width x height) | Volume               | Gross weight |
|------------------------|--------------------------------|----------------------------------|-----------------------------------------|----------------------|--------------|
| 4052899617261<br>OSRAM | OT FIT 40/220-240/1A0<br>CS PC | Shipping carton box<br>20 Pieces | 347 x 228 x 64 mm                       | 5.06 dm <sup>3</sup> | 138.10 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.