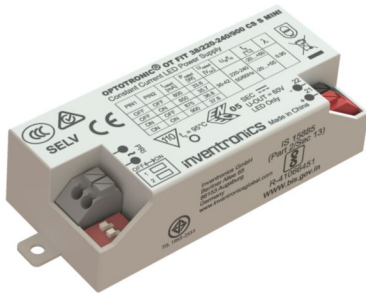


OT FIT 38/220-240/900 CS S MINI

OPTOTRONIC FIT CS MINI | 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
- Higher quality of light thanks to < 3% output ripple current
- Operating temperature: up to 60 °C
- User flexibility with four different output currents from one driver
- Flexible current selection via DIP switch
- Reversible overtemperature, overload, short-circuit and open-circuit protection
- High efficiency (up to 90%)

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 ¹⁾ |
| Nominal input current at 230 V | 0.184 A ²⁾ |
| Total harmonic distortion | < 10 % ³⁾ |
| Power factor λ | 0.95 |
| Efficiency in full-load | 90 % ⁴⁾ |
| Device power loss | 4.2 W ⁵⁾ |
| Inrush current | 13.4 A |
| Max. ECG no. on circuit breaker 10 A (B) | 16 |
| Max. ECG no. on circuit breaker 16 A (B) | 26 |
| Max. ECG no. on circuit breaker 25 A (B) | not relevant |
| Surge capability (L-N) | 1 kV |
| Surge capability (L/N-Ground) | 2 kV |
| Protective conductor current | not relevant |
| Nominal output voltage | 30...42 V |
| U-OUT (working voltage) | 60 V |
| Nominal output current | 800/850/875/900 mA ⁶⁾ |
| Default output current | 900 mA |
| Output current tolerance | ± 7.5 % |
| Output ripple current (100 Hz) | < 3 % ⁷⁾ |
| Output PSTLM | ≤ 1 |
| Output SVM | ≤ 0.4 |
| Nominal output power | 24...37.8 W |
| Maximum output power | 37.5 W |
| Galvanic isolation primary/secondary | SELV |

1) Safety voltage range

2) At full load, 230 V, 50 Hz

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

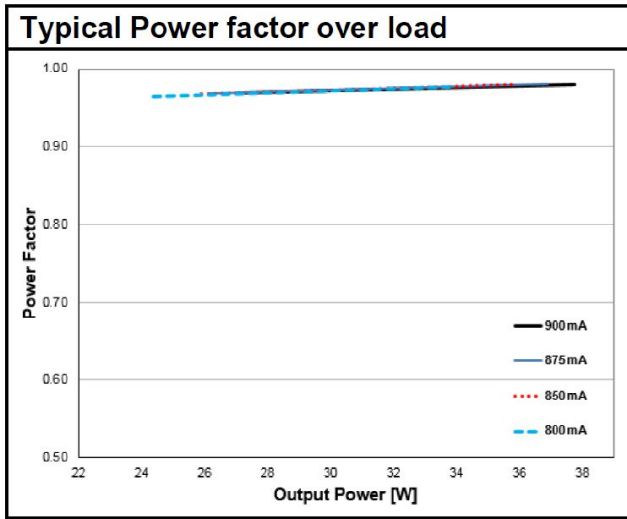
4) at 230 V, 50 Hz

5) At 230 V, Input power 42 W max.

6) ± 7.5 %

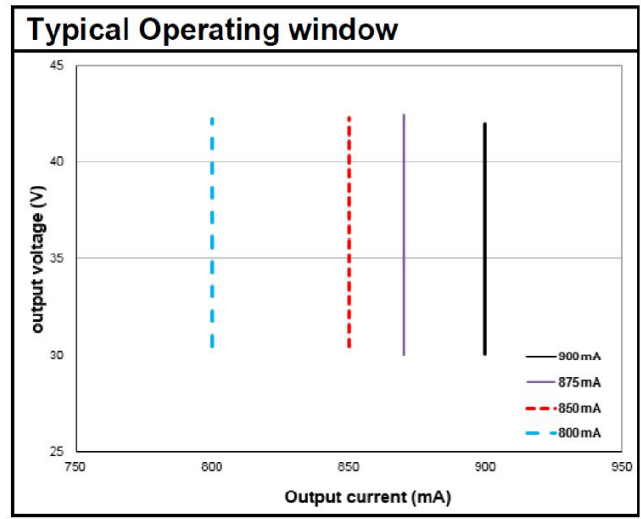
7) Ripple average at 100 Hz

Typical Power Factor v Load



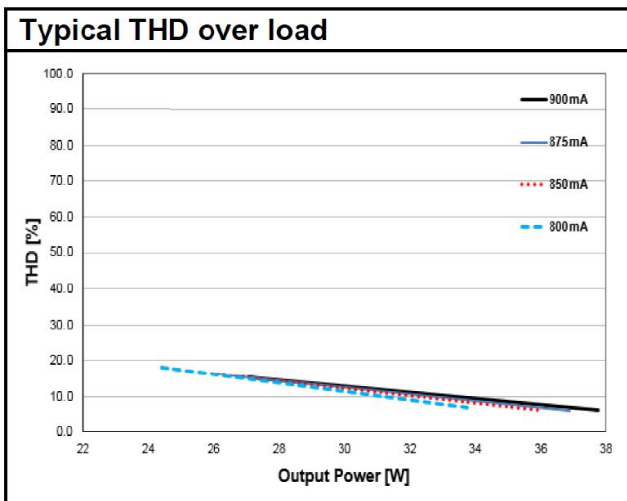
OT FIT 38/220-240/900 CS S MINI Typical Power Factor vs. Load

Operating Window



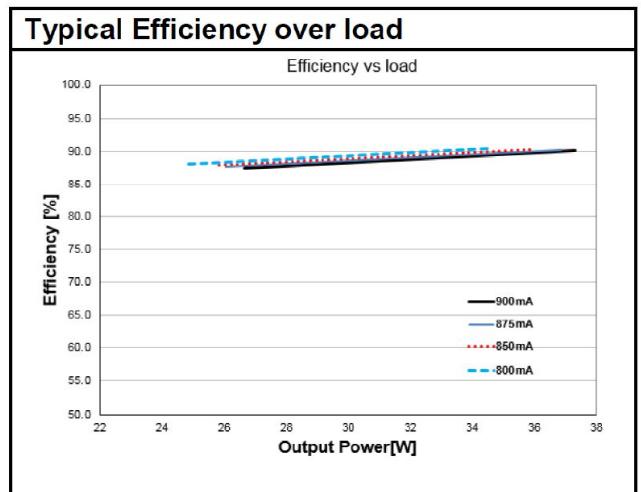
OT FIT 38/220-240/900 CS S MINI Operating Window

Typical THD v Load



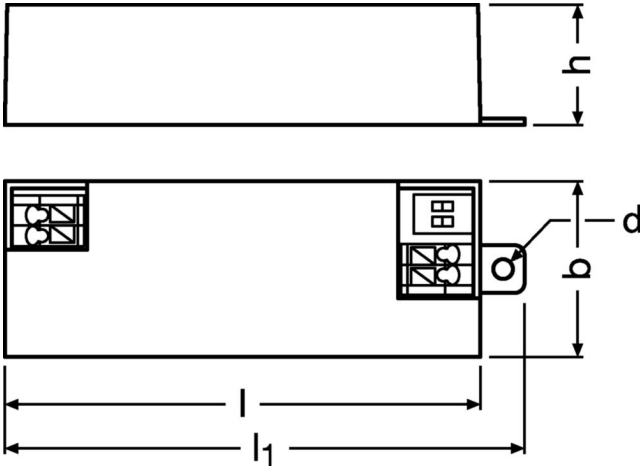
OT FIT 38/220-240/900 CS S MINI Typical THD Vs Load

Typical Efficiency v Load 230 V 50 Hz



OT FIT 38/220-240/900 CS S MINI Typical Efficiency vs. Load (230 V / 50 Hz)

Dimensions & weight



| | |
|---|--|
| Product weight | 90.20 g |
| Length | 87.0 mm |
| Width | 35.0 mm |
| Height | 22.0 mm |
| Mounting hole spacing, length | not relevant mm |
| Mounting hole spacing, width | not relevant mm |
| Cable cross-section, input side | 0.5...1.5 mm ² / 0.75...1.5 mm ² ¹⁾ |
| Cable cross-section, output side | 0.5...1.5 mm ² / 0.75...1.5 mm ² ¹⁾ |
| Wire preparation length, input side | 7...8 mm |
| Wire preparation length, output side | 7...8 mm |

1) Solid/ Flexible Leads

Colors & materials

| | |
|------------------------|---------|
| Casing material | Plastic |
| Product color | White |

Temperatures & operating conditions

| | |
|---|--------------------------|
| Ambient temperature range | -20...+55 / -20...+60 °C |
| Maximum temperature at tc test point | 95 °C ¹⁾ |
| Max.housing temperature in case of fault | 110 °C |
| Temperature range at storage | -20...80 °C |
| Permitted rel. humidity during operation | 5...85 % ²⁾ |

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

2) Non-condensing

Lifespan

| | |
|---------------------|---------------------------------|
| ECG lifetime | 35000 h / 50000 h ¹⁾ |
|---------------------|---------------------------------|

1) At maximum $T_c = 95^\circ\text{C}$ / 10% failure rate / At maximum $T_c = 85^\circ\text{C}$ / 10% failure rate

Capabilities

| | |
|---|----------------------|
| Programming interface | Dipswitch |
| Dimmable | No |
| Max. cable length to lamp/LED module | 2.0 m ¹⁾ |
| 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) Output wires must be routed as close as possible to each other

Programming

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

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 | 4052899587984 6977770437548 |
| 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 | ▶ OT FIT MINI CS S CAD3PDF 260026 |
| CAD data | Compressed | ▶ OT FIT MINI CS S - built in step |
| User instruction | PDF | ▶ UI OT FIT CS S MINI |

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|-------------------------------|------------------------------------|----------------------------------|--------------------------------------|----------------------|--------------|
| 6977770437548 INVENTRONICS | OT FIT 38/220-240/900 CS S MINI | Shipping carton box 20 Pieces | 187 x 186 x 67 mm | 2.33 dm ³ | 99.00 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

Disclaimer

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