

OT FIT 40/220-240/1A0 NFC

OPTOTRONIC FIT NFC | Compact constant current LED driver – Non dimmable



Product family features

- Output current range 150-1050 mA
- NFC Interface
- Low LF-ripple < 5%
- Lifetime: up to 50,000 h (temperature at max. t_c)

Product family benefits

- Fast programming / current set via NFC*
- High quality of light thanks to low output ripple current
- Small housing for flexible luminaire designs
- High efficiency

Areas of application

- Spot light and down light
- Offices
- Shops
- Hospitality

Technical data

Electrical data

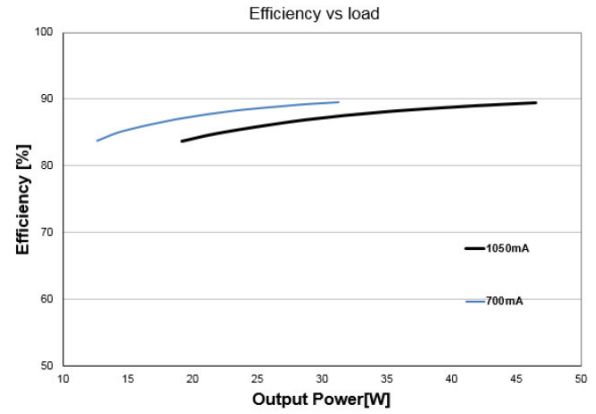
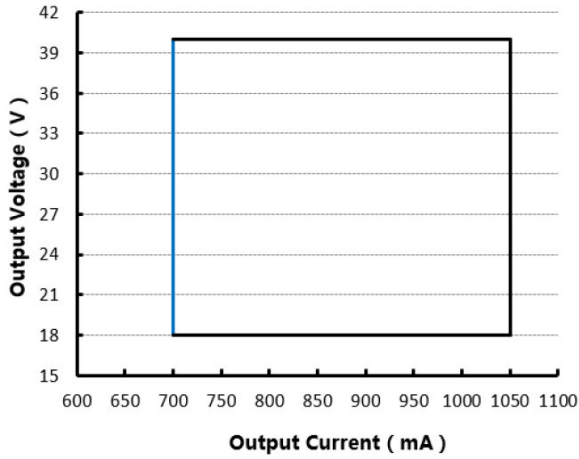
| | |
|--|-----------------------------|
| Nominal input voltage | 220...240 V |
| Mains frequency | 50/60 Hz |
| Input voltage AC | 198...264 V |
| Total harmonic distortion | < 10 % ¹⁾ |
| Power factor λ | 0.98 |
| Efficiency in full-load | 88 % ²⁾ |
| Device power loss | 5.5 W |
| Inrush current | 20 A ³⁾ |
| Max. ECG no. on circuit breaker 10 A (B) | 15 |
| Max. ECG no. on circuit breaker 10 A (C) | - |
| Max. ECG no. on circuit breaker 16 A (B) | 25 |
| Max. ECG no. on circuit breaker 16 A (C) | - |
| 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 | 18...40 V |
| U-OUT (working voltage) | 60 V |
| Nominal output current | 700...1050 mA ⁴⁾ |
| Output current tolerance | ± 7.5 % |
| Default output current | 700 mA |
| Output ripple current (100 Hz) | < 5 % |
| Output PSTLM | ≤ 1 |
| Output SVM | ≤ 0.4 |
| Nominal output power | 12.6...42 W |
| Maximum output power | 42 W |
| Galvanic isolation | SELV |
| Galvanic isolation primary/secondary | SELV |
| Current set | NFC |

¹⁾ At full load

²⁾ at 230 V, 50 Hz

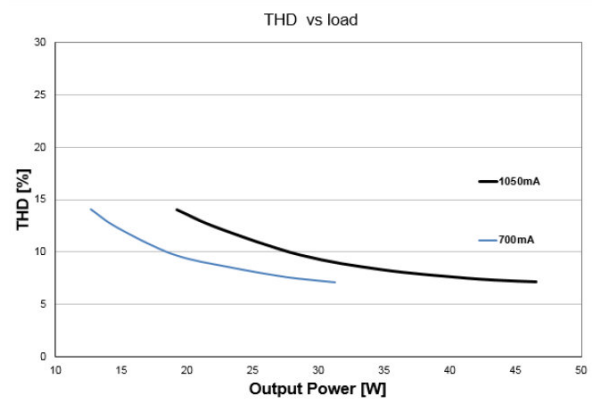
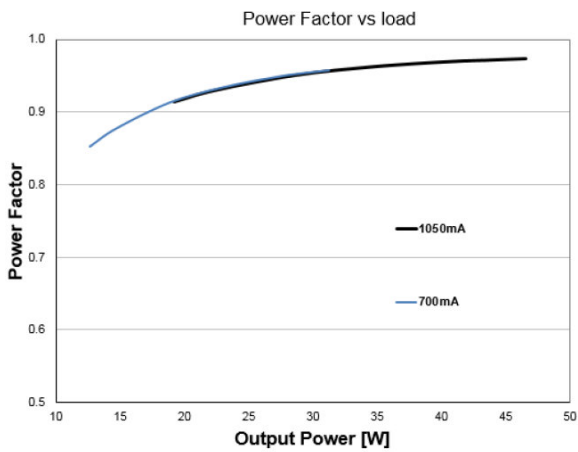
³⁾ $t_h = 200 \mu s$

⁴⁾ ± 7.5 %



OT FIT 40 NFC Operating Window

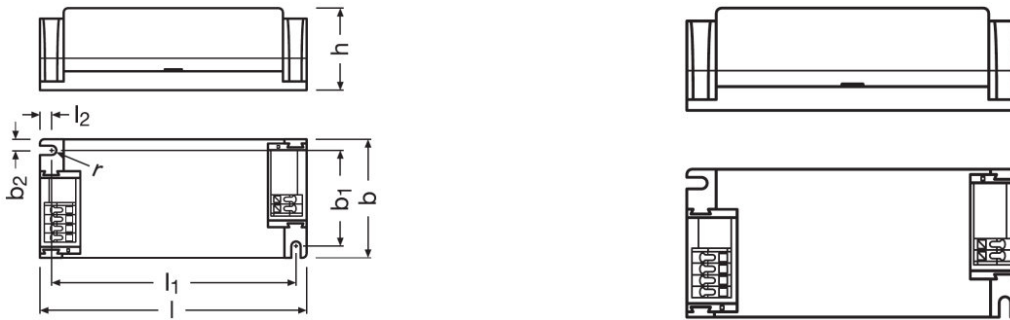
OT FIT 40 NFC Typical Efficiency vs. Load (230 V 50 Hz)



OT FIT 40 NFC Typical Power Factor vs. Load

OT FIT 40 NFC Typical THD Vs Load

Dimensions & weight



| | |
|--------------------------------------|--|
| Mounting hole spacing, length | 88.0 mm |
| Mounting hole spacing, width | 34.0 mm |
| Product weight | 140.00 g |
| Cable cross-section, input side | 0.5...1.5 / 0.75...1.5 mm ² ¹⁾ |
| Cable cross-section, output side | 0.5...1.5 / 0.75...1.5 mm ² ¹⁾ |
| Wire preparation length, input side | 7...8 mm |
| Wire preparation length, output side | 7...8 mm |
| Length | 97.0 mm |
| Width | 43.0 mm |
| Height | 29.5 mm |

¹⁾ Solid/ Flexible Leads

Colors & materials

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

Temperatures & operating conditions

| | |
|--|----------------------------|
| Ambient temperature range | -20...+50 °C ¹⁾ |
| Maximum temperature at tc test point | 80 °C |
| Max.housing temperature in case of fault | 110 °C |
| Temperature range at storage | -25...85 °C |
| Permitted rel. humidity during operation | 5...85 % ²⁾ |

¹⁾ 700-900 mA

²⁾ Non-condensing

Lifespan

| | |
|--------------|--------------------------------|
| ECG lifetime | 50000 / 100000 h ¹⁾ |
|--------------|--------------------------------|

¹⁾ At $T_c = 80^\circ\text{C} / 0.2\% / 1,000\text{ h failure rate} / T_c = 70^\circ\text{C}, 0.1\% / 1,000\text{ h failure rate}$

Additional product data

| | |
|-----------------|---------------|
| Predecessor EAN | 4052899957015 |
|-----------------|---------------|

Capabilities

| | |
|--|----------------------|
| Dimmable | No |
| Overheating protection | Automatic reversible |
| Overload protection | Yes |
| Short-circuit protection | Yes |
| No-load proof | Yes |
| Intended for no-load operation | 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 |

¹⁾ Output wires must be routed as close as possible to each other

Programming

| | |
|------------------------|-----|
| Box programming | Yes |
| Tuner4TRONIC | Yes |
| Tuner4TRONIC Field App | Yes |
| Programming device | NFC |

Certificates & standards

| | |
|---------------------------|--|
| Approval marks – approval | CCC / CE / ENEC |
| 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/Acc. to EN 55015, CISPR 15/Acc. to EN 62386 |
| Type of protection | IP20 |
| Protection class | II |

Logistical data

| | |
|----------------|--------------|
| Commodity code | 850440839000 |
|----------------|--------------|

Environmental information

| | |
|--|------------|
| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) | |
| Date of Declaration | 17-11-2022 |

Product datasheet

| | |
|---|--|
| Primary Article Identifier | 4052899617193 |
| Candidate List Substance 1 | Lead |
| CAS No. of substance 1 | 7439-92-1 |
| Safe Use Instruction | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| Declaration No. in SCIP database | f40586c0-04cc-4841-9a02-895860664f2a |

Download Data

| File | |
|---|--|
|  | User instruction OPTOTRONIC LED Power Supply |
|  | User instruction OPTOTRONIC LED Power Supply |
|  | Certificates OT FIT IT DALI NFC ENEC 35 113246 060420 |
|  | Certificates OT FIT IT DALI NFC RCM NSW27559 080421 |
|  | Declarations of conformity OT FIT NFC CE 4211505 230821 |
|  | Declarations of conformity OT FIT NFC UK DoC 4281077 040221 |

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 |
|---------------|------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899617193 | OT FIT 40/220-240/1A0 NFC | Shipping carton box 20 | 208 mm x 158 mm x 107 mm | 3.52 dm ³ | 2915.00 g |

Product datasheet

Logistical Data

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.

Accessories Optional

| Product description | Accessory name | Accessory code |
|---------------------------|------------------------|-----------------|
| OT FIT 40/220-240/1A0 NFC | OT CABLE CLAMP D-STYLE | ▶ 4062172345507 |

Disclaimer

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