

## OT FIT 150/220...240/1A0 D NFC IND L

OPTOTRONIC FIT D NFC IND L | Linear / Area Constant Current – Non dimmable



### Areas of application

- Linear lighting solutions for industry, storage areas and retail applications
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J
- Suitable for installation in emergency lighting systems according to EN 60598-2-22
- Suitable for luminaires of protection class I

### Product family benefits

- Flexible and future-proof current setting via NFC and LT2
- Lifetime: up to 100,000 h (temperature at  $T_c = 75^\circ\text{C}$ , max. 10 % failure rate)
- Wide operating temperature range:  $-40...+65^\circ\text{C}$
- High quality of light thanks to <1% output ripple current
- High surge protection: up to 4 kV (L-N) / 4 kV (L/N-PE)
- Very high efficiency (up to 96%)
- Integrated inrush current limiter
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection



## Product datasheet

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### Product family features

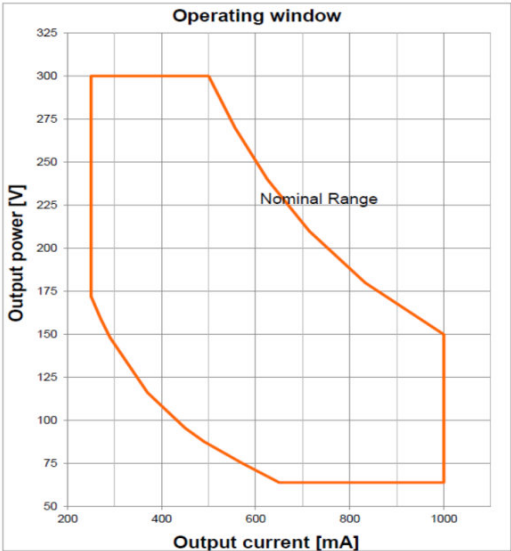
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 150 W
- Supply voltage: 220...240 V
- Available with output current range: up to 1,000 mA
- Constant Lumen Output (CLO)
- Non-isolated drivers
- Constant Lumen Output (CLO)

### Technical data

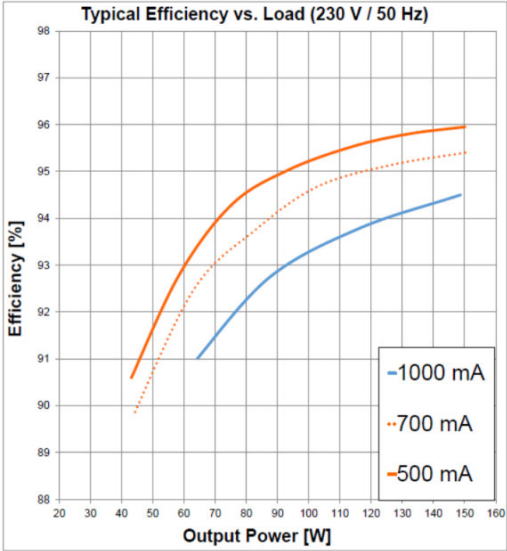
#### Electrical data

|  |                      |
|--|----------------------|
| Nominal input voltage                    | 220...240 V          |
| Mains frequency                          | 0/50/60 Hz           |
| Input voltage AC                         | 198...264 V          |
| Input voltage DC                         | 176...276 V          |
| Current set                              | LEDset / NFC         |
| Power factor $\lambda$                   | > 0.98               |
| ECG efficiency                           | up to 96 %           |
| Device power loss                        | 11 W                 |
| Inrush current                           | 5 A                  |
| Max. ECG no. on circuit breaker 10 A (B) | 18                   |
| Max. ECG no. on circuit breaker 16 A (B) | 32                   |
| Max. ECG no. on circuit breaker 25 A (B) | -                    |
| Surge capability (L/N-Ground)            | 4 kV                 |
| Surge capability (L-N)                   | 4 kV                 |
| Nominal output voltage                   | 64...300 V           |
| Nominal output current                   | 250...1000 mA        |
| Default output current                   | 125 mA <sup>1)</sup> |
| Output ripple current (100 Hz)           | < 1 %                |
| Nominal output power                     | 43...150 W           |
| Galvanic isolation                       | Non isolated         |

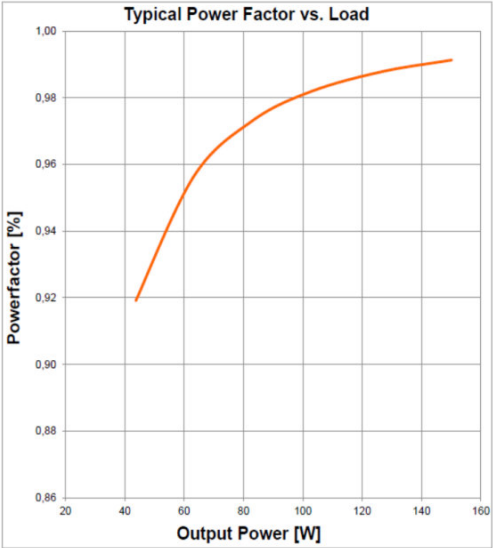
<sup>1)</sup> LEDset deactivated



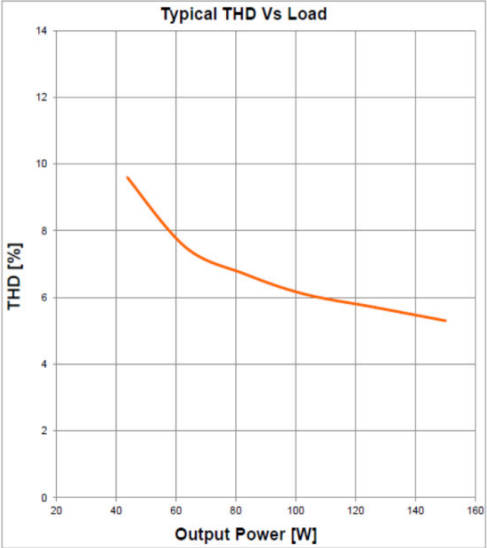
Operating Window



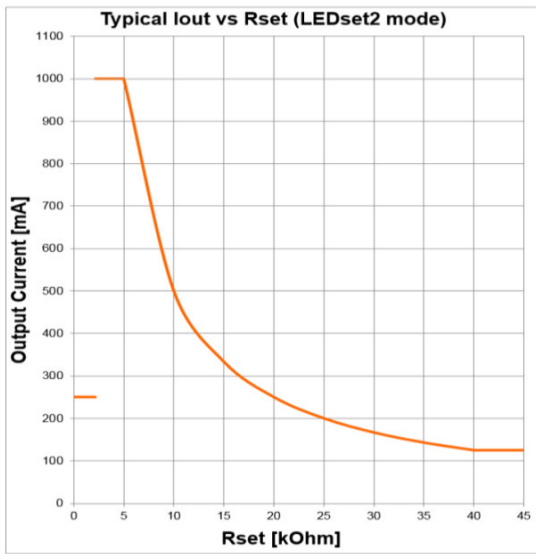
Typical Efficiency v Load 230 V 50 Hz



Typical Power Factor v Load

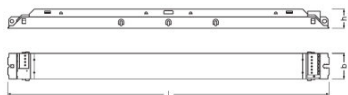


Typical THD v Load



Typical Iout v Rset LEDset2 mode

Dimensions & weight



|                                     |                           |
|-------------------------------------|---------------------------|
| Mounting hole spacing, length       | 350.0 mm                  |
| Product weight                      | 260.00 g                  |
| 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 | 7...8 mm                  |
| Length                              | 360.0 mm                  |
| Width                               | 30.0 mm                   |
| Height                              | 21.0 mm                   |

Temperatures & operating conditions

## Product datasheet

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

<sup>1)</sup> Maximum 56 days/year at 85 %

### Lifespan

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

<sup>1)</sup> At maximum  $T_c = 85^\circ\text{C}$  / 10% failure rate / At  $T_{\text{case}} = 75^\circ\text{C}$  at  $T_c$  point / 10% failure rate

### Additional product data

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

### Capabilities

|  |                      |
|--|----------------------|
| Dimmable                               | No                   |
| Overheating protection                 | Automatic reversible |
| Overload protection                    | Automatic reversible |
| Short-circuit protection               | Automatic reversible |
| No-load proof                          | Yes                  |
| Max. cable length to lamp/LED module   | 5.0 m                |
| Suitable for fixtures with prot. class | I                    |
| Number of channels                     | 1                    |

### Programming

|                        |              |
|------------------------|--------------|
| Tuner4TRONIC           | Yes          |
| Tuner4TRONIC Field App | No           |
| Programming device     | NFC / LEDset |

### Certificates & standards














|                           |  |
|---------------------------|--|
| Approval marks – approval | CE / EL / ENEC 10 / VDE-EMC / CCC / RCM  |
| Standards                 | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 62384/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61547 |
| Type of protection        | IP20   |

### Logistical data

|                |              |
|----------------|--------------|
| Commodity code | 850440829000 |
|----------------|--------------|

## Download Data

## Product datasheet

| File  |  |
|---|--|
|    | User instruction<br>OPTOTRONIC LED Power Supply  |
|    | Product Datasheet<br>Product datasheet OT FIT 150 IND  |
|    | Certificates<br>OT EMC 40050085 200220   |
|    | Certificates<br>VDE EMC Certificate 40011668   |
|    | Certificates<br>OT ENEC 40038085 200220  |
|    | Certificates<br>OT EMC 40044675 170420   |
|    | Declarations of conformity<br>OT FIT D NFC IND L CE 3695761 130320   |
|    | Declarations of conformity<br>INOTEC-Conformity declaration AM15161 OT FIT 150 220-240 1A0 D NFC IND L (EN)      |
|    | Declarations of conformity<br>EATON(CEAG) Conformity declaration AM15161 OT FIT 150 220-240 1A0 D NFC IND L (EN) |
|   | CAD data<br>OT FIT D NFC IND L IGS 281119  |
|  | CAD data<br>OT FIT D NFC IND L STEP 281119   |
|  | CAD Data 2-dim<br>OT FIT D NFC IND L CAD2PDF 281119  |
|  | CAD data 3-dim<br>OT FIT D NFC IND L CAD3PDF 281119  |

## Logistical Data

| Product code  | Product description                        | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|--|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899990142 | OT FIT<br>150/220...240/1A0 D NFC<br>IND L | Shipping carton box<br>20    | 385 mm x 160 mm x 100 mm             | 6.16 dm <sup>3</sup> | 5546.00 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.