

OT FIT 50/220...240/300 D L

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



Areas of application

- Linear lighting for office, education, industry, storage areas and retail
- 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

- Small housing design
- Fixed current
- Lifetime: up to 100,000 h (temperature at $T_c = 65\text{ °C}$, max. 10 % failure rate)
- High quality of light thanks to low output ripple current
- High efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 50 W
- Supply voltage: 220...240 V
- Available with output current range: up to 350 mA
- Non-isolated drivers



Technical data

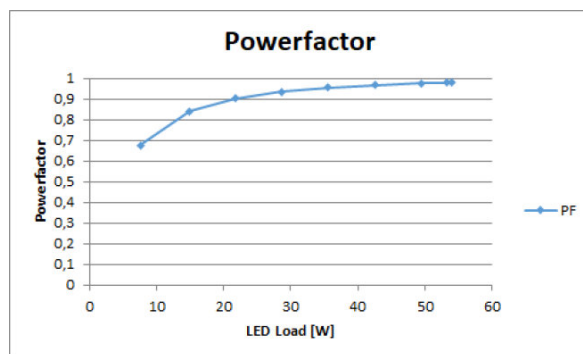
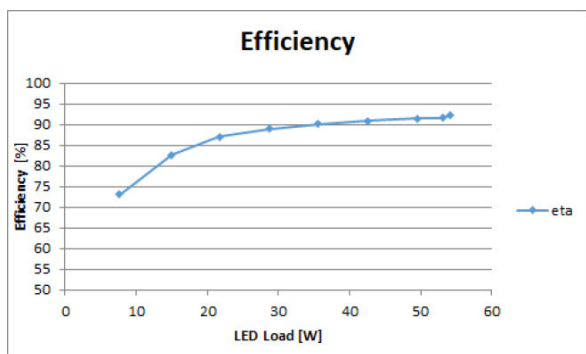
Electrical data

| | |
|--|---------------------------|
| Nominal input voltage | 220...240 V |
| Mains frequency | 0/50/60 Hz |
| Input voltage AC | 198...264 V ¹⁾ |
| Input voltage DC | 176...276 V |
| Current set | Fixed current |
| Total harmonic distortion | < 20 % |
| Power factor λ | > 0.95 |
| ECG efficiency | >90 % |
| Device power loss | 5.0 W ²⁾ |
| Protective conductor current | <2.0 mA |
| Max. ECG no. on circuit breaker 10 A (B) | 35 |
| Max. ECG no. on circuit breaker 16 A (B) | 56 |
| Max. ECG no. on circuit breaker 25 A (B) | 89 |
| Surge capability (L/N-Ground) | 2 kV |
| Surge capability (L-N) | 1 kV |
| Nominal output voltage | 54...175 V |
| U-OUT (working voltage) | < 250 V |
| Nominal output current | 300 mA ³⁾ |
| Output current tolerance | ± 10 % |
| Output ripple current (100 Hz) | < 10 % |
| Nominal output power | 16.2...52.5 W |
| Galvanic isolation | Non isolated |

¹⁾ Permitted voltage range

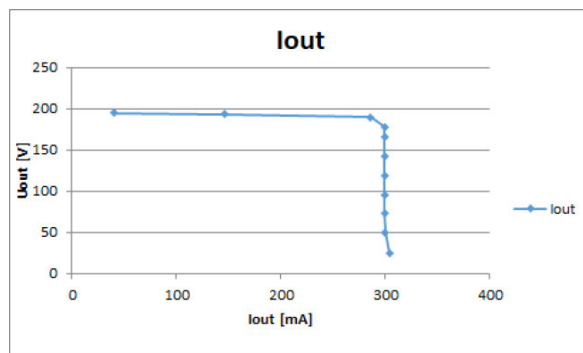
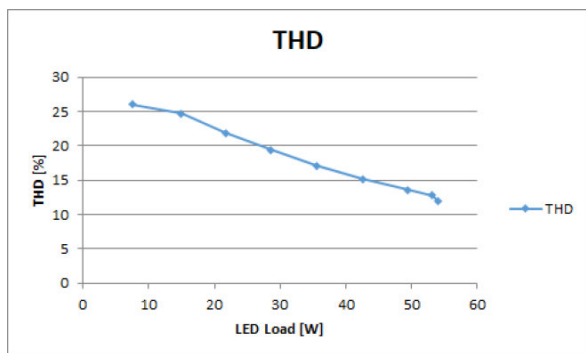
²⁾ Maximum

³⁾ ± 5 %



Typical Efficiency v Load 230 V 50 Hz

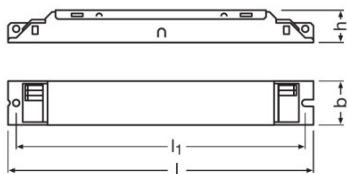
Typical Power Factor v Load



Typical THD v Load

Typical Iout v Rset LEDset2 mode

Dimensions & weight



| | |
|---|---------------------------|
| Mounting hole spacing, length | 200.0 mm |
| Product weight | 125.00 g |
| Cable cross-section, input side | 0.5...1.5 mm ² |
| Cable cross-section, output side | 0.5...1.5 mm ² |
| Wire preparation length, input side | 8.5...9.5 mm |
| Wire preparation length, output side | 8.5...9.5 mm |
| Length | 210.0 mm |
| Width | 30.0 mm |
| Height | 21.0 mm |

Colors & materials

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

Temperatures & operating conditions

| | |
|---|------------------------|
| Ambient temperature range | -15...+50 °C |
| Maximum temperature at tc test point | 75 °C |
| Max.housing temperature in case of fault | 110 °C |
| Temperature range at storage | -25...85 °C |
| Permitted rel. humidity during operation | 5...85 % ¹⁾ |

¹⁾ Maximum 56 days/year at 85 %

Lifespan

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

¹⁾ At maximum $T_c = 75^\circ\text{C}$ / 10% failure rate / At $T_c = 65^\circ\text{C}$ / 10% failure rate

Additional product data

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

Product datasheet

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 | 2.0 m |
| Suitable for fixtures with prot. class | I |
| Suitable for emergency lighting | Yes |
| Type of connection, output side | Push terminal |
| Number of channels | 1 |

Programming

| | |
|------------------------|----|
| Tuner4TRONIC | No |
| Tuner4TRONIC Field App | No |






Certificates & standards

| | |
|---------------------------|---|
| Approval marks – approval | CE / EL / VDE-EMC / ENEC 10 / CCC / RCM |
| Standards | Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 62384/Acc. to EN 62386 |
| Protection class | I |
| Type of protection | IP20 |

Logistical data

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

Download Data

| File | |
|---|--|
|  | Product Datasheet 728917_OT FIT 50220240300 D L |
|  | Certificates VDE EMC Certificate 40011668 |
|  | Certificates OT ENEC 40038085 200220 |
|  | Certificates CCC Certificate 2017171002001468 |
|  | Declarations of conformity OT FIT D L CE 3366459 121119 |

Product datasheet

| | |
|---|---|
|  | CAD data OT FIT D L IGS 261119 |
|  | CAD data OT FIT D L STEP 261119 |
|  | CAD Data 2-dim OT FIT D L CAD2PDF 261119 |
|  | CAD data 3-dim OT FIT D L CAD3PDF 261119 |

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|--------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899469884 | OT FIT 50/220...240/300 D L | Shipping carton box 20 | 234 mm x 161 mm x 101 mm | 3.81 dm ³ | 2665.00 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.