

## OT FIT 75/220...240/550 D LT2 L

OPTOTRONIC FIT D LT2 L | Linear / Area Constant Current – Non dimmable



### Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 120 W
- Supply voltage: 220...240 V
- Available with output current range: up to 750 mA
- Non-isolated drivers

### Product family benefits

- Flexible current setting (LEDset2)
- Lifetime: up to 100,000 h (temperature at  $T_c = 65^\circ\text{C}$ , max. 10 % failure rate)
- High quality of light thanks to low output ripple current
- Very high efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

### 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

## Technical data

### Electrical data

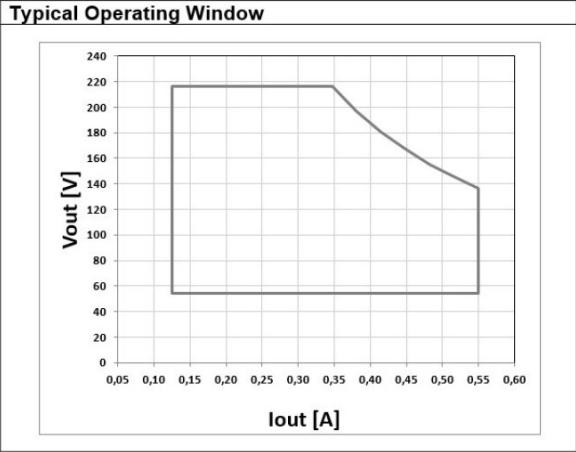
|                                          |                            |
|------------------------------------------|----------------------------|
| Nominal input voltage                    | 220...240 V                |
| Mains frequency                          | 0/50/60 Hz                 |
| Input voltage AC                         | 198...264 V                |
| Input voltage DC                         | 176...276 V                |
| Current set                              | LEDset                     |
| Total harmonic distortion                | < 5 %                      |
| Power factor $\lambda$                   | 0.67C...0.99               |
| Efficiency in full-load                  | 93 % <sup>1)</sup>         |
| Device power loss                        | 7.0 W                      |
| Protective conductor current             | <0.5 mA                    |
| Inrush current                           | 41 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) | -                          |
| Surge capability (L/N-Ground)            | 2 kV                       |
| Surge capability (L-N)                   | 1 kV                       |
| Nominal output voltage                   | 54...216 V                 |
| U-OUT (working voltage)                  | < 250 V                    |
| Nominal output current                   | 125...550 mA <sup>2)</sup> |
| Output current LEDset open               | 75 mA                      |
| Output current LEDset shorted            | 550 mA                     |
| Default output current                   | 75 mA <sup>3)</sup>        |
| Output current tolerance                 | ±3 %                       |
| Output ripple current (100 Hz)           | < 1 %                      |
| Output PSTLM                             | ≤1                         |
| Output SVM                               | ≤0.4                       |
| Nominal output power                     | 6.8...75 W                 |
| Maximum output power                     | 75 W                       |
| Galvanic isolation                       | Non isolated               |
| Galvanic isolation primary/secondary     | -                          |

<sup>1)</sup> at 230 V, 50 Hz

<sup>2)</sup> ±3%

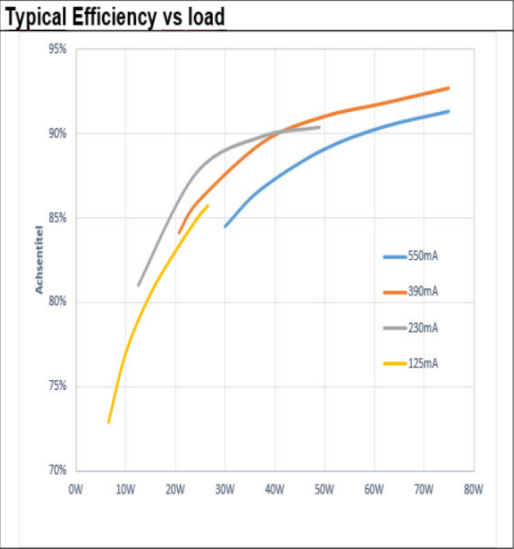
<sup>3)</sup> LEDset deactivated

Typical Operating Window



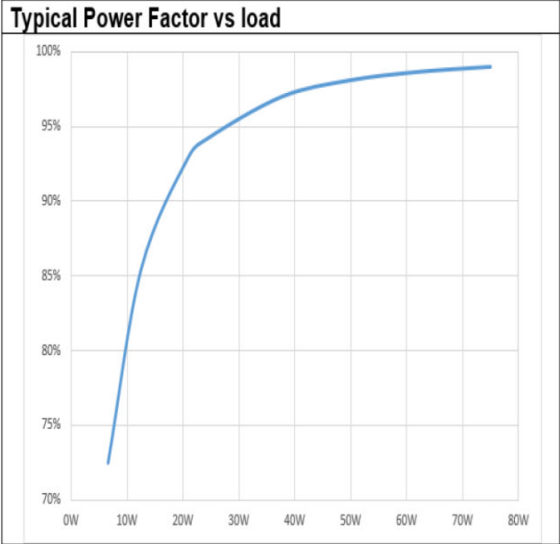
OT FIT 75220-240550 D LT2 L Operating Window

Typical Efficiency vs load



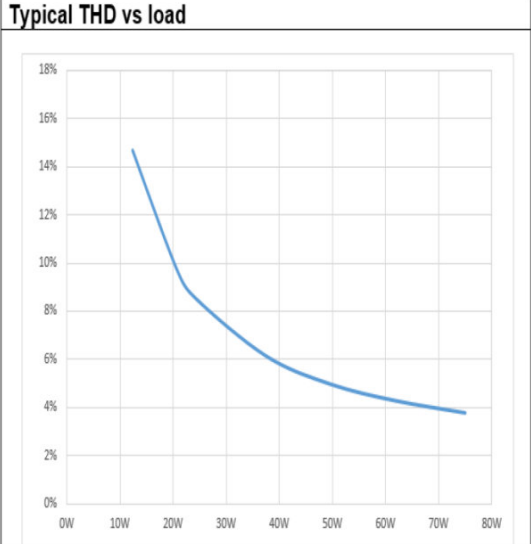
OT FIT 75220-240550 D LT2 L Typical Efficiency vs. Load (230 V 50 Hz)

Typical Power Factor vs load



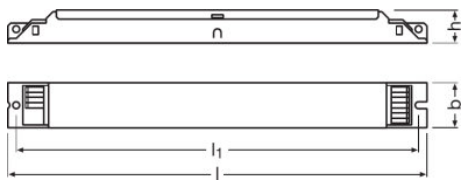
OT FIT 75220-240550 D LT2 L Typical Power Factor vs. Load

Typical THD vs load



OT FIT 75220-240550 D LT2 L Typical THD Vs Load

Dimensions & weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Mounting hole spacing, length        | 270.0 mm                  |
| Product weight                       | 176.00 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  | 8.5...9.5 mm              |
| Wire preparation length, output side | 8.5...9.5 mm              |
| Length                               | 280.0 mm                  |
| Width                                | 30.0 mm                   |
| Height                               | 21.0 mm                   |

Colors & materials

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

Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -25...+60 °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 % <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<sub>c</sub> = 75°C / 10% failure rate / At T<sub>c</sub> = 65°C / 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                  |
| Intended for no-load operation         | No                   |
| Max. cable length to lamp/LED module   | 2.0 m <sup>1)</sup>  |
| Suitable for fixtures with prot. class | I                    |
| Suitable for emergency lighting        | Yes                  |
| Type of connection, input side         | Push terminal        |
| Type of connection, output side        | Push terminal        |
| Number of channels                     | 1                    |

<sup>1)</sup> Output wires must be routed as close as possible to each other

Programming

|                    |        |
|--------------------|--------|
| Programming device | LEDset |
|--------------------|--------|

Certificates & standards

|                           |                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / EL / VDE-ENEC / VDE-EMC / EAC / CCC / BIS / 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 | 85044083900 |
|----------------|-------------|

Environmental information

|                                                                      |                                                                                                    |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Information according Art. 33 of EU Regulation (EC) 1907/2006 (RECh) |                                                                                                    |
| Date of Declaration                                                  | 11-08-2023                                                                                         |
| Primary Article Identifier                                           | 4052899478435                                                                                      |
| 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                                     | 414e8c66-0c05-437e-87f8-13b2aef14c1e                                                               |

## Product datasheet

### Download Data

| File                                                                                |                                                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|    | User instruction<br>OPTOTRONIC LED Power Supply                    |
|    | Certificates<br>OT ENEC 40038085 010322                            |
|    | Certificates<br>LED drivers EMC 40011668 300922                    |
|    | Declarations of conformity<br>OT FIT D LT2 L UK DoC 4288054 230322 |
|    | Declarations of conformity<br>OT FIT D LT2 L CE 3461268 161023     |
|    | CAD data<br>CAD data IGS OT FIT 35,75D LT2 L G2                    |
|    | CAD data<br>CAD data STEP OT FIT 35,75D LT2 L G2                   |
|    | CAD data<br>OT FIT D LT2 L IGS 150120                              |
|   | CAD data<br>OT FIT D LT2 L STEP 150120                             |
|  | CAD Data 2-dim<br>OT FIT D LT2 L CAD2PDF 150120                    |
|  | CAD data 3-dim<br>OT FIT D LT2 L CAD3PDF 150120                    |
|  | CAD data PDF<br>CAD data PDF OT FIT 35,75D LT2 L G2                |

### 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.

Product datasheet

Logistical Data

| Product code  | Product description                | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|------------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899478435 | OT FIT 75/220...240/550<br>D LT2 L | Shipping carton box<br>20    | 305 mm x 161 mm x 104 mm             | 5.11 dm <sup>3</sup> | 4237.00 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.