

## OT FIT 15/220...240/500 LT2 S

OPTOTRONIC FIT LT2 S | 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
- According to EN 61347-1, 61347-2-13, 62384
- RI suppression: to EN 55015
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Lifetime: up to 100,000 h (temperature at  $T_c = 65^\circ\text{C}$ , max. 10 % failure rate)
- Cable clamp kit for independent mounting

### Product family benefits

- Versatile scope of application due to output power range of up to 40 W
- Fulfill safety requirement due to overload, overtemperature protection
- High efficiency
- High quality of light thanks to <1% output ripple current
- Small housing for flexible luminaire designs

### Areas of application

- Luminaires with flexible current setting (LEDset2)
- Suitable for indoor SELV installations
- Suitable for luminaires of protection classes I and II
- Suitable for downlights, spotlights and LED panels
- Independent mounting via Cable Clamp Kit possible

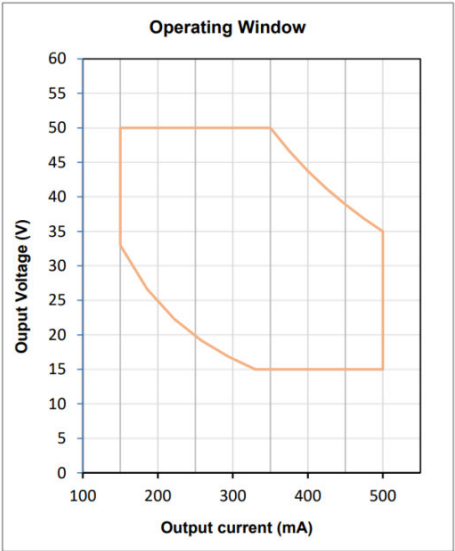
Technical data

Electrical data

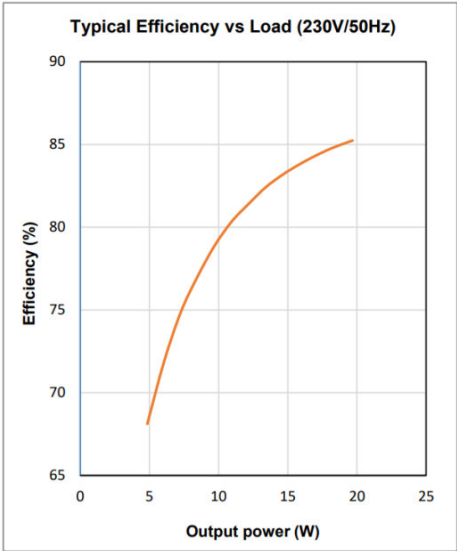
|                                          |                    |
|------------------------------------------|--------------------|
| Nominal input voltage                    | 220...240 V        |
| Mains frequency                          | 50/60 Hz           |
| Input voltage AC                         | 198...264 V        |
| Total harmonic distortion                | 15 %               |
| Power factor $\lambda$                   | 090                |
| Efficiency in full-load                  | 83 % <sup>1)</sup> |
| Device power loss                        | 3.0 W              |
| Inrush current                           | 8 A <sup>2)</sup>  |
| Max. ECG no. on circuit breaker 10 A (B) | 38                 |
| Max. ECG no. on circuit breaker 16 A (B) | 60                 |
| Max. ECG no. on circuit breaker 25 A (B) | 90                 |
| Surge capability (L/N-Ground)            | 2 kV               |
| Surge capability (L-N)                   | 1 kV               |
| Nominal output voltage                   | 15...50 V          |
| U-OUT (working voltage)                  | 60 V               |
| Nominal output current                   | 150...500 mA       |
| Output current LEDset open               | Not allowed        |
| Output current LEDset shorted            | 500 mA             |
| Output current tolerance                 | ±5 %               |
| Output ripple current (100 Hz)           | < 1 %              |
| Output PSTLM                             | ≤1                 |
| Output SVM                               | ≤0.4               |
| Nominal output power                     | 4.5...17.5 W       |
| Maximum output power                     | 17.5 W             |
| Input voltage DC                         | -                  |
| Galvanic isolation primary/secondary     | SELV               |
| Galvanic isolation                       | SELV               |
| Current set                              | LEDset2            |

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

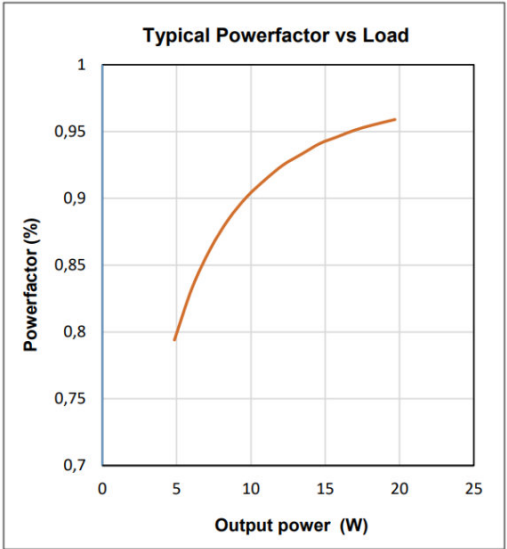
<sup>2)</sup> At 150 µs



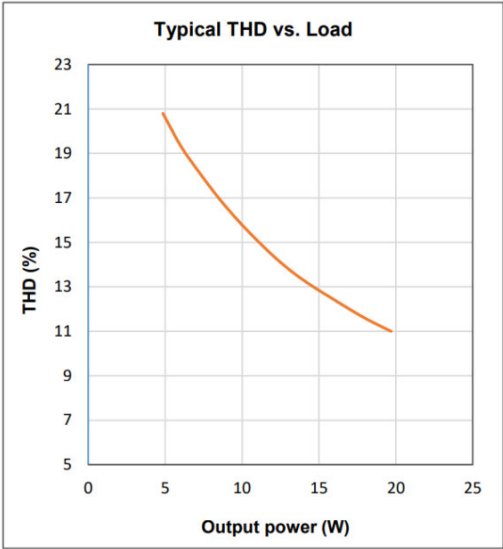
OT FIT 15220-240500 LT2 S Operating Window



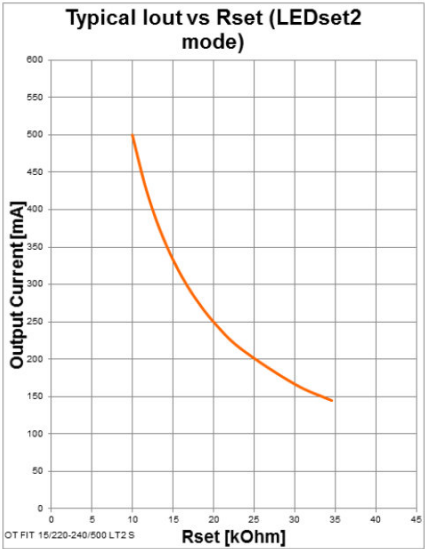
OT FIT 15220-240500 LT2 S Typical Efficiency vs. Load (230 V 50 Hz)



OT FIT 15220-240500 LT2 S Typical Power Factor vs. Load

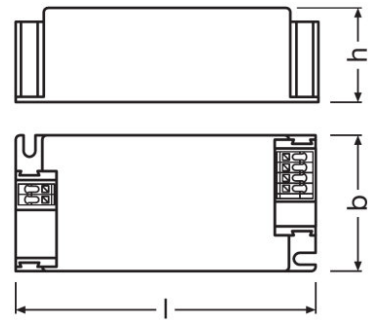


OT FIT 15220-240500 LT2 S Typical THD Vs Load



OT FIT 15220-240500 LT2 S Typical I<sub>out</sub> vs R<sub>set</sub> (LEDset2 mode)

Dimensions & weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Mounting hole spacing, length        | 88.0 mm                   |
| Mounting hole spacing, width         | 34.0 mm                   |
| Product weight                       | 8600 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  | 6.5...7.5 mm              |
| Wire preparation length, output side | 6.5...7.5 mm              |
| Length                               | 970 mm                    |
| Width                                | 430 mm                    |

Product datasheet

|        |        |
|--------|--------|
| Height | 295 mm |
|--------|--------|

Colors & materials

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

Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -20...+50 °C           |
| Maximum temperature at tc test point     | 75 °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 | 100000 h <sup>1)</sup> |
|--------------|------------------------|

<sup>1)</sup> At  $T_{case} = 65^{\circ}C$  at  $T_c$  point / 10% failure rate

Additional product data

|               |               |
|---------------|---------------|
| Successor EAN | 4052899617179 |
|---------------|---------------|

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 / II               |
| Type of connection, output side        | Push terminal        |
| Suitable for through-wiring            | No                   |

<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 |
|---------------------------|----|

Product datasheet

|                    |                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Standards          | Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to CISPR 15/Acc. to IEC 61000-3-2/Acc. to IEC 61547/Acc. to IEC 61000-3-3 |
| Type of protection | IP20                                                                                                                                        |
| Protection class   | II                                                                                                                                          |

Logistical data

|                |             |
|----------------|-------------|
| Commodity code | 85044083900 |
|----------------|-------------|

Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                                                                                                    |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Date of Declaration                                                   | 02-06-2023                                                                                         |
| Primary Article Identifier                                            | 4052899956995                                                                                      |
| 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                                      | f008b4d9-77ee-42e8-8fe3-0d64cee0f9c5                                                               |

Download Data

| File                                                                                |                                                                  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------|
|  | User instruction<br>OPTOTRONIC LED Power Supply                  |
|  | Brochures<br>730877_Brochure OT FIT LT2 S (EN)                   |
|  | Certificates<br>OT FIT OTI DALI LT2 CB DE1 63464 060520          |
|  | Certificates<br>729794_Certificate OT FIT LT2 S                  |
|  | Certificates<br>OT EMC 40038482 290922                           |
|  | Certificates<br>OT ENEC 40038447 260623                          |
|  | Certificates<br>CCC Certificate 2018171002002029 (CE)            |
|  | Certificates<br>CCC Certificate 2018171002002030 (CE)            |
|  | Declarations of conformity<br>OT FIT LT2 S CE 3432845 040322     |
|  | Declarations of conformity<br>OT FIT LT2 S UK DoC 4288997 040322 |

Product datasheet

|                                                                                   |                                                                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|  | CAD data<br>722872_OT FIT-LT2S-15-25-40-housing-3Ddrawing STEP                   |
|  | CAD data<br>722871_OT FIT-LT2S-15-25-40-cable clamp 3Ddrawing.STEP               |
|  | CAD data<br>722873_OT FIT-LT2S-15-25-40-housing with cable clamps-3Ddrawing STEP |

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 |
|---------------|-------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899956995 | OT FIT 15/220...240/500 LT2 S | Shipping carton box<br>20    | 228 mm x 208 mm x 78 mm              | 3.70 dm <sup>3</sup> | 1826.00 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.

Accessories Optional

| Product description           | Accessory name         | Accessory code  |
|-------------------------------|------------------------|-----------------|
| OT FIT 15/220...240/500 LT2 S | OT CABLE CLAMP D-STYLE | ▶ 4052899077904 |

Disclaimer

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