

## OT FIT 36 /220-240/24 PC

CV Power supplies 24V with PC I



### Product family features

- 24 V constant output voltage
- SELV
- Wide Ta range -20 – +50 °C
- Lifetime 50 000 h at tc max
- Dimming range: 3...100 % luminous flux
- Recommended to Use Trailing Edge dimmer

### Product family benefits

- IP rating: IP20
- High efficiency
- Very stable output power
- High electrical reversible short-circuit, overload, overtemperature protection
- Independent installation possible

### Areas of application

- Suitable for luminaires of protection classes I and II
- Hospitality – decorative lighting, night light
- Restaurants – decorative lighting
- Shops – decorative lighting, shelf lighting
- Residential – cove lighting, under cabinet lighting

## Technical data

### Electrical data

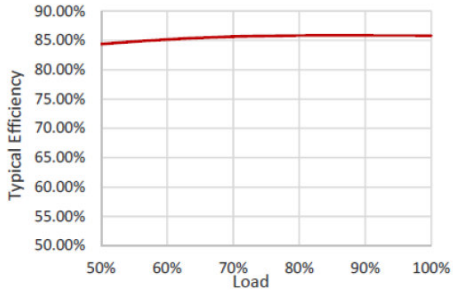
|  |                      |
|--|----------------------|
| Nominal input voltage                    | 220...240 V          |
| Mains frequency                          | 50/60 Hz             |
| Input voltage AC                         | 198...264 V          |
| Total harmonic distortion                | < 15 %               |
| Power factor $\lambda$                   | > 0.95               |
| Efficiency in full-load                  | 85 % <sup>1)</sup>   |
| Device power loss                        | 6.0 W <sup>2)</sup>  |
| Inrush current                           | < 25 A <sup>3)</sup> |
| Max. ECG no. on circuit breaker 10 A (B) | 21                   |
| Max. ECG no. on circuit breaker 10 A (C) | 33                   |
| Max. ECG no. on circuit breaker 16 A (B) | 33                   |
| Max. ECG no. on circuit breaker 16 A (C) | 53                   |
| Surge capability (L/N-Ground)            | 2 kV                 |
| Surge capability (L-N)                   | 1 kV                 |
| Nominal output voltage                   | 24.2 V               |
| Nominal output power                     | 2.42...36.3 W        |
| Maximum output power                     | 36.3 W <sup>4)</sup> |
| Galvanic isolation                       | SELV                 |
| Output PWM frequency                     | 3k Hz                |

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

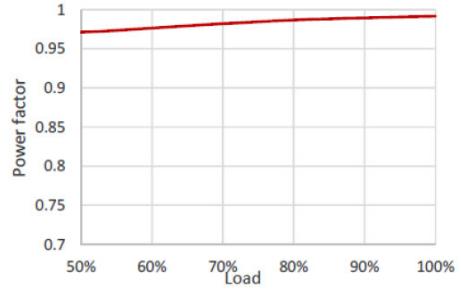
<sup>2)</sup> At Full load, 230 V, 50 Hz

<sup>3)</sup>  $t_{width} = 250 \mu s$  (measured at 50 %  $I_{peak}$ )

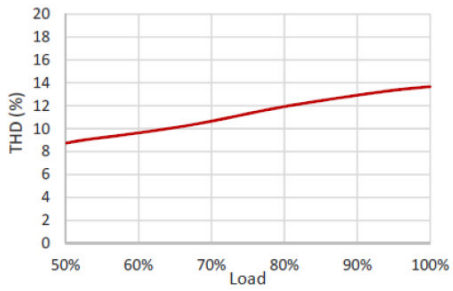
<sup>4)</sup> at steady state



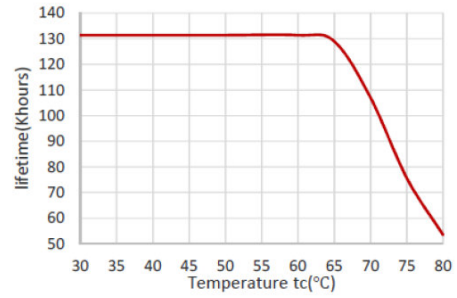
OT FIT 36 220-240 24 PC Typical Efficiency vs. Load



OT FIT 36 220-240 24 PC Typical Power Factor vs. Load



OT FIT 36 220-240 24 PC Typical THD vs Load



OT FIT 36 220-240 24 PC Lifetime vs Case Temp

Dimensions & weight



|                                      |                            |
|--------------------------------------|----------------------------|
| Mounting hole spacing, length        | 94.0 mm                    |
| Product weight                       | 162.00 g                   |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup>  |
| Cable cross-section, output side     | 0.75...1.5 mm <sup>2</sup> |
| Wire preparation length, input side  | 7...8 mm                   |
| Wire preparation length, output side | 7...8 mm                   |
| Mounting hole spacing, width         | 58.0 mm                    |
| Length                               | 103.0 mm                   |
| Width                                | 67.0 mm                    |
| Height                               | 29.5 mm                    |

Colors & materials

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

Temperatures & operating conditions

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

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

Lifespan

|              |         |
|--------------|---------|
| ECG lifetime | 50000 h |
|--------------|---------|

Capabilities

|          |     |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

## Product datasheet

|  |                                  |
|--|----------------------------------|
| Dimming interface                      | Phase Cut                        |
| Dimming range                          | 3...100 %                        |
| Dimming method                         | PWM                              |
| Overheating protection                 | Yes                              |
| Overload protection                    | Yes                              |
| Short-circuit protection               | Yes                              |
| No-load proof                          | Yes                              |
| Suitable for fixtures with prot. class | I                                |
| Type of connection, input side         | Fixed connection (terminal)      |
| Type of connection, output side        | Fixed connection (terminal)      |
| Control interface                      | Trailing edge dimmer recommended |
| Number of channels                     | 1                                |

### Programming

|              |    |
|--------------|----|
| Tuner4TRONIC | No |
|--------------|----|

### Certificates & standards

|                           |  |
|---------------------------|--|
| Approval marks – approval | CE / ENEC / CCC / RCM / UKCA / EAC / SELV / CB   |
| Standards                 | Acc. to EN 55015/Acc. to EN 60598-1/Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 61547/Acc. to EN 62384/CISPR 15/EN 55015 |
| Protection class          | II   |
| Type of protection        | IP20   |

### Logistical data







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

### Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |  |
|---|--|
| Date of Declaration   | 21-07-2023   |
| Primary Article Identifier  | 4062172237390  |
| 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                                      | a61cc393-322a-40a8-b7f8-20d7cac2fccb   |

## Product datasheet

### Download Data

| File  |   |
|---|---|
|  | User instruction<br>OPTOTRONIC LED Power Supply             |
|  | Product Datasheet<br>Product Datasheet OT FIT 36 PC (EN)    |
|  | Certificates<br>CB certificate OT FIT 24V PC                |
|  | Certificates<br>ENEC OT FIT 24V                             |
|  | Certificates<br>CCC certificate of OT FIT 36W free-standing |
|  | Certificates<br>CCC certificate of OT FIT 36W free-standing |

### 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 |
|---------------|--------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4062172237390 | OT FIT 36 /220-240/24 PC | Shipping carton box<br>30    | 355 mm x 225 mm x 130 mm             | 10.38 dm <sup>3</sup> | 5302.00 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 36 /220-240/24 PC | OT CABLE CLAMP B-STYLE | ▶ 4052899077881 |

## Product datasheet

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### Disclaimer

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