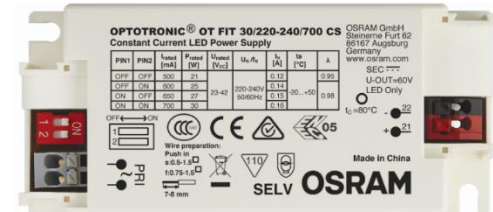


Light is OSRAM

**OSRAM****Product data sheet: OT FIT 30/220-240/700 CS****Constant Current LED Power Supply**

500mA - 600mA - 650mA- 700mA

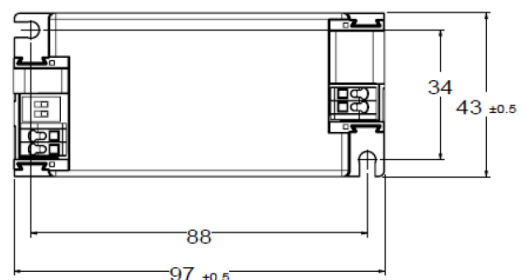
OPTOTRONIC® LED Power Supply  
with high reliability in extra small & compact  
housing. Equips with 4 selectable currents fits in  
lighting fixtures for shop and office lighting.

**Benefits**

1 driver with 4 output currents;  
High quality light with very low ripple;  
Extra small housing for compact fixture;  
Long lasting and high reliability  
Safety ensured by OSRAM (SELV)  
5 years guarantee

**Applications**

Downlights, Spotlights and Panels



Approval marks (under preparation if not on label)



|    |         |
|----|---------|
| L  | 97 mm   |
| L1 | 88 mm   |
| B  | 43 mm   |
| B1 | 34 mm   |
| H  | 29.5 mm |

**Product Features**

- Output currents: 500/600/650/700 mA
- Output voltage: 23V<sub>DC</sub> – 42V<sub>DC</sub>
- Output power: 11.5 W – 29.4 W
- Suitable for class I and II luminaires
- Fixed Output (no dimming)
- Low ripple, Low THD
- Extra small housing
- Typ. Efficiency: 89%
- SELV
- Up to 50`000 hours lifetime

## Electrical Specifications

|             | Item                                     | Value           | Unit | Remarks   |
|-------------|--|-----------------|------|---|
| Input       | Nominal Voltage                          | 220 - 240       | V    |   |
|             | Nominal frequency                        | 50 / 60         | Hz   |   |
|             | AC voltage range                         | 198 – 264       | V    | AC, Safety voltage range  |
|             | DC voltage range                         | n/a             | V    |   |
|             | Maximum voltage                          | 275             | V    | 2 h   |
|             | Nominal current                          | 160             | mA   | 230V, Refer to table 1 for details  |
|             | Total Harmonic Distortion (THD)          | < 10            | %    | Full load, 230 V, 50 Hz / see graphs  |
|             | Power factor                             | 0.98            |      | Full load, 230 V, 50 Hz / see graphs  |
|             | Efficiency                               | 89              | %    | Full load, 230 V, 50 Hz / typical/ see graphs   |
|             | No-load power                            | < 0.5           | W    | 230 V, typical  |
|             | Standby power                            | n/a             | W    |   |
|             | Power losses                             | 3.5             | W    | At 230 V Input power 34 W max. refer to table 1 for details                               |
|             | Protection class                         | II              |      | Suitable for class I and II luminaires  |
|             | Inrush current                           | < 16            | A    | Th = 100 µs typical (measured at 50% Ipeak)   |
|             | Max. units per circuit breaker           | B16: 25 B10: 15 |      |   |
|             | Leakage current                          | < 0.7           | mA   | Output floating   |
| Output      | Nominal voltage range                    | 23 – 42         | Vdc  | Refer to table 1 for details  |
|             | Maximum voltage                          | 60              | Vdc  | w/ Open Circuit   |
|             | Nominal current range                    | 500/600/650/700 | mA   |   |
|             | Current accuracy                         | +/- 7.5         | %    |   |
|             | Current ripple                           | < 5             | %    | Ripple / average @ 100 Hz   |
|             | Nominal power range                      | 11.5 – 29.4     | W    | Partial Load. Refer to table 1 for details  |
|             | Maximum power                            | 29.4            | W    | Ta ≤ 50°C Refer to table 1 for details  |
| Dim         | Galvanic isolation                       | SELV            |      | Output to mains – touch current < 0.7 mA  |
|             | Dimming control                          | No              |      | Not dimmable  |
|             | Dimming range                            | n/a             | %    |   |
|             | Dimming technique                        | n/a             |      |   |
|             | Frequency                                | n/a             | Hz   |   |
| Environment | Galvanic isolation                       | n/a             |      |   |
|             | Ambient temperature range t <sub>a</sub> | -20...+50       | °C   | Refer to table 1 for details  |
|             | Maximum case temperature t <sub>c</sub>  | 80              | °C   | Measured on t <sub>c</sub> point indicated of the product label                           |
|             | Max. case temp. in fault condition       | 110             | °C   |   |
|             | Storage temperature range                | -20...+80       | °C   | Cool down before operating  |
|             | Relative humidity                        | 5...85          | %    | Not condensing  |
|             | Surge transient protection               | 1 / 2           | kV   | L/N /LN/PE acc to EN 61547  |
|             | Environmental rating                     | Indoor          |      |   |
|             | IP rating                                | IP 20           |      |   |
|             | Mains switching cycles                   | > 100'000       |      |   |
|             | Expected lifetime                        | 50'000          | hrs  | t <sub>c</sub> = 70°C (operating at 10°C below T <sub>c</sub> , max. failure rate of 10%) |

### Protections

#### Over temperature

Automatic, reversible

#### Overload

Automatic, reversible

#### No load

Yes, limitation of Output voltage < 60V

#### Short-circuit

Automatic, reversible

#### Input overvoltage

Maximum allowed input voltage 275V AC

#### Output overvoltage

Yes, limitation of Output voltage < 60V

### Wiring Diagram

Terminal:

Max. cable length:

Geometry (l x b x h):

Weight:

Push in terminals

2 m

97 x 43 x 29.5 mm

90 g

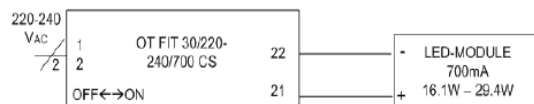
Wire preparation:

Push in

s:0.5-1.5

f:0.75-1.5

7-8 mm

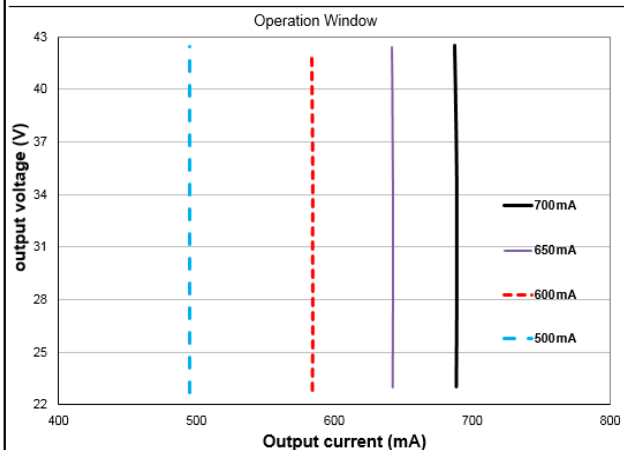


Example with 700mA LED module

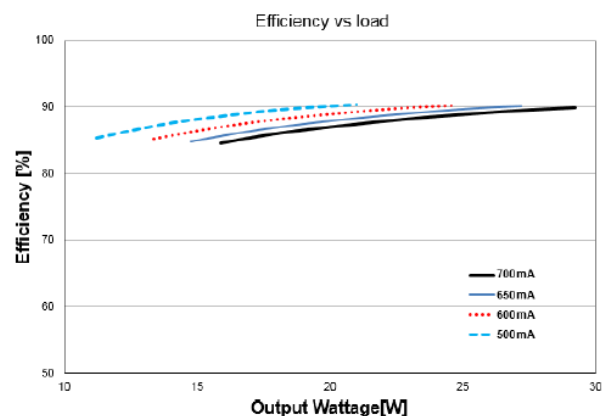
For build-in: 0.5-1.5 mm<sup>2</sup>, for independent: 0.75-1.5 mm<sup>2</sup>.

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

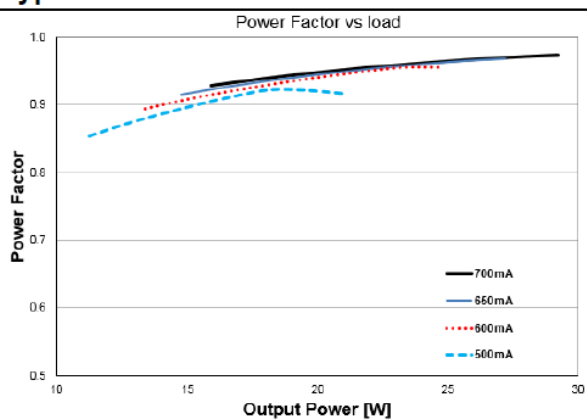
### Typical operating window



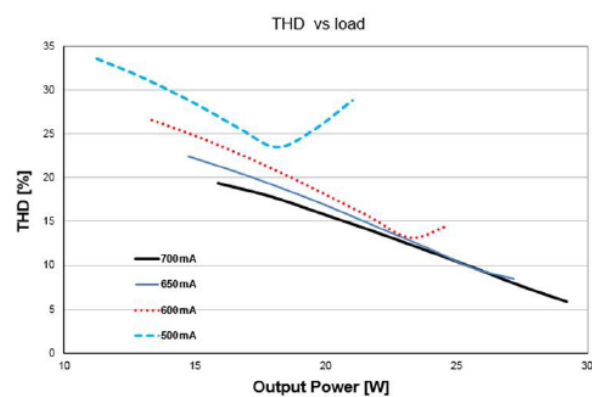
### Typical Efficiency over load



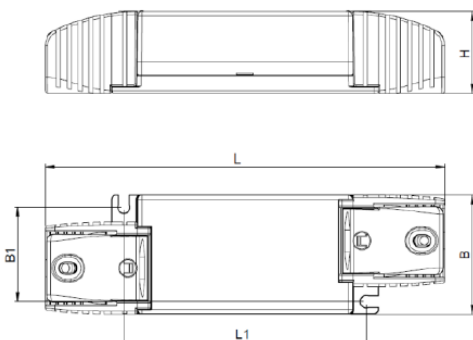
### Typical Power factor over load



### Typical THD over load



An optional cable clamp is available. This cable clamp can be snapped onto the driver and thus converts it into an independent installation.



|    |        |
|----|--------|
| L  | 145mm  |
| L1 | 88mm   |
| B  | 43mm   |
| B1 | 34mm   |
| 1  | 29.5mm |

| Table 1 - Rated output power and current sets |      |      |      |      |  |
|---|------|------|------|------|--|
| I <sub>out</sub> (mA)                         | 500  | 600  | 650  | 700  |  |
| U <sub>min</sub> [V]                          | 23   | 23   | 23   | 23   |  |
| U <sub>max</sub> [V]                          | 42   | 42   | 42   | 42   |  |
| P <sub>min</sub> [W]                          | 11.5 | 13.8 | 15   | 16.1 |  |
| P <sub>max</sub> [W]                          | 21   | 25.2 | 27.3 | 29.4 |  |
| T <sub>a</sub> [°C]                           | 50   | 50   | 50   | 50   |  |
| T <sub>c</sub> [°C]                           | 80   | 80   | 80   | 80   |  |
| Line Current, nominal@230V mA                 | 120  | 140  | 150  | 160  |  |
| Max Power Loss@230V [W]                       | 2.6  | 3.0  | 3.4  | 3.5  |  |
| Input Power @230V [W]                         | 23.6 | 28.3 | 30.7 | 33   |  |

| Pin1 | Pin2 | Current |
|------|------|---------|
| ON   | ON   | 700     |
| ON   | OFF  | 650     |
| OFF  | ON   | 600     |
| OFF  | OFF  | 500     |

Current selection by DIP-switch

### Standards

Safety: IEC 61347-1, IEC 61347-2-13

Performance: IEC 62384

Radio interference: CISPR 15

Harmonic content: IEC 61000-3-2

Immunity: IEC 61000-3-3

IEC 61547

| Product name             | EAN10         | EAN40         | Pieces / box |
|--------------------------|---------------|---------------|--------------|
| OT FIT 30/220-240/700 CS | 4052899435636 | 4052899435643 | 20           |
| OT Cable Clamp D-style   | 4052899077904 | 4052899077911 | 40           |

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