

## CV Power supplies 12 V



### Product family benefits

- Versatile scope of application due to output power range of up to 120 W
- Very high efficiency
- IP rating: up to IP67
- High surge protection: up to 3 kV (L-N) / 6 kV (L/N-PE)

### Areas of application

- Suitable for indoor and outdoor installations
- Ideal for mounting in very tight spaces

Product family datasheet

Technical data

| Product description     | Electrical data       |                 |                  |                           |                        |                         |
|-------------------------|-----------------------|-----------------|------------------|---------------------------|------------------------|-------------------------|
|                         | Nominal input voltage | Mains frequency | Input voltage AC | Total harmonic distortion | Power factor $\lambda$ | Efficiency in full-load |
| OT FIT 60/220-240/12 P  | 220...240 V           | 50...60 Hz      | 198...264 V      | < 5 % <sup>1)</sup>       | 0.95 <sup>2)</sup>     | 87 % <sup>3)</sup>      |
| OT FIT 150/220-240/12 P | 220...240 V           | 50...60 Hz      | 198...264 V      | < 5 % <sup>1)</sup>       | 0.95 <sup>2)</sup>     | 91 % <sup>3)</sup>      |
| OT FIT 300/220-240/12 P | 220...240 V           | 50...60 Hz      | 198...264 V      | < 5 % <sup>1)</sup>       | 0.95 <sup>2)</sup>     | 91 % <sup>3)</sup>      |

| Product description     | Device power loss | Inrush current      | Max. ECG no. on circuit breaker 10 A (C) | Max. ECG no. on circuit breaker 10 A (B) | Max. ECG no. on circuit breaker 16 A (C) | Max. ECG no. on circuit breaker 16 A (B) |
|-------------------------|-------------------|---------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| OT FIT 60/220-240/12 P  | 8.6 W             | 45 A <sup>4)</sup>  | 14                                       | 6                                        | 23                                       | 13                                       |
| OT FIT 150/220-240/12 P | 14.8 W            | 55 A <sup>12)</sup> | 9                                        | 4                                        | 16                                       | 7                                        |
| OT FIT 300/220-240/12 P | 28 W              | 70 A <sup>15)</sup> | 4                                        | 2                                        | 7                                        | 4                                        |

| Product description     | Max. ECG no. on circuit breaker 25 A (B) | Surge capability (L-N) | Nominal output voltage | U-OUT (working voltage) | Nominal output power |
|-------------------------|------------------------------------------|------------------------|------------------------|-------------------------|----------------------|
| OT FIT 60/220-240/12 P  | 22                                       | 6 kV                   | 12.5 V                 | 13 V                    | 60 W                 |
| OT FIT 150/220-240/12 P | 10                                       | 6 kV                   | 12.5 V                 | 13 V                    | 150 W                |
| OT FIT 300/220-240/12 P | 6                                        | 6 kV                   | 12.5 V                 | 13 V                    | 300 W                |

| Product description     | Maximum output power | Galvanic isolation | Output ripple Voltage (100 Hz) | Surge capability (L/N-Ground) | Dimensions & weight           |
|-------------------------|----------------------|--------------------|--------------------------------|-------------------------------|-------------------------------|
|                         |                      |                    |                                |                               | Mounting hole spacing, length |
| OT FIT 60/220-240/12 P  | 60 W <sup>5)</sup>   | SELV               | < 3 % <sup>6)</sup>            | 6 kV                          | 153 mm                        |
| OT FIT 150/220-240/12 P | 150 W <sup>5)</sup>  | SELV               | < 3 % <sup>6)</sup>            | 6 kV                          | 188.0 mm                      |
| OT FIT 300/220-240/12 P | 300 W <sup>5)</sup>  | SELV               | < 3 % <sup>6)</sup>            | 6 kV                          | 251 mm                        |

| Product description     | Product weight | Cable cross-section, input side   | Cable cross-section, output side   | Wire preparation length, input side | Wire preparation length, output side |
|-------------------------|----------------|-----------------------------------|------------------------------------|-------------------------------------|--------------------------------------|
| OT FIT 60/220-240/12 P  | 47300 g        | 1.0 mm <sup>2</sup> <sup>7)</sup> | 1.0 mm <sup>2</sup> <sup>8)</sup>  | 60 mm                               | 10 mm                                |
| OT FIT 150/220-240/12 P | 92000 g        | 1.0 mm <sup>2</sup> <sup>7)</sup> | 1.5 mm <sup>2</sup> <sup>13)</sup> | 60 mm                               | 10 mm                                |
| OT FIT 300/220-240/12 P | 151000 g       | 1.0 mm <sup>2</sup> <sup>7)</sup> | 2.5 mm <sup>2</sup> <sup>16)</sup> | 60 mm                               | 10 mm                                |

Product family datasheet

|                         |         |                              |        |        | Colors & materials |
|-------------------------|---------|------------------------------|--------|--------|--------------------|
| Product description     | Length  | Mounting hole spacing, width | Width  | Height | Casing material    |
| OT FIT 60/220-240/12 P  | 1570 mm | 27.0 mm                      | 530 mm | 315 mm | Metal              |
| OT FIT 150/220-240/12 P | 2020 mm | 27.0 mm                      | 530 mm | 315 mm | Metal              |
| OT FIT 300/220-240/12 P | 2660 mm | 34.0 mm                      | 830 mm | 395 mm | Metal              |

| Temperatures & operating conditions |                            |                                      |                                          |                              |
|-------------------------------------|----------------------------|--------------------------------------|------------------------------------------|------------------------------|
| Product description                 | Ambient temperature range  | Maximum temperature at tc test point | Max.housing temperature in case of fault | Temperature range at storage |
| OT FIT 60/220-240/12 P              | -40...+50 °C <sup>9)</sup> | 80 °C                                | -                                        | -40...+85 °C                 |
| OT FIT 150/220-240/12 P             | -40...+50 °C <sup>9)</sup> | 90 °C                                | -                                        | -40...+85 °C                 |
| OT FIT 300/220-240/12 P             | -40...+50 °C <sup>9)</sup> | 90 °C                                | -                                        | -40...+85 °C                 |

|                         |                                          | Lifespan               | Additional product data | Capabilities |                        |
|-------------------------|------------------------------------------|------------------------|-------------------------|--------------|------------------------|
| Product description     | Permitted rel. humidity during operation | ECG lifetime           | Predecessor EAN         | Dimmable     | Overheating protection |
| OT FIT 60/220-240/12 P  | 5...85 % <sup>10)</sup>                  | 50000 h <sup>11)</sup> | 4008321790811           | No           | Automatic reversible   |
| OT FIT 150/220-240/12 P | 5...85 % <sup>10)</sup>                  | 50000 h <sup>14)</sup> | 4008321790835           | No           | Automatic reversible   |
| OT FIT 300/220-240/12 P | 5...85 % <sup>10)</sup>                  | 50000 h <sup>11)</sup> |                         | No           | Automatic reversible   |

| Product description     | Overload protection  | Short-circuit protection | No-load proof | Intended for no-load operation |
|-------------------------|----------------------|--------------------------|---------------|--------------------------------|
| OT FIT 60/220-240/12 P  | Automatic reversible | Automatic reversible     | Yes           | No                             |
| OT FIT 150/220-240/12 P | Automatic reversible | Automatic reversible     | Yes           | No                             |
| OT FIT 300/220-240/12 P | Automatic reversible | Automatic reversible     | Yes           | No                             |

| Product description     | Suitable for fixtures with prot. class | Type of connection, input side | Type of connection, output side | Number of channels |
|-------------------------|----------------------------------------|--------------------------------|---------------------------------|--------------------|
| OT FIT 60/220-240/12 P  | I                                      | Wires                          | Wires                           | 1                  |
| OT FIT 150/220-240/12 P | I                                      | Wires                          | Wires                           | 1                  |
| OT FIT 300/220-240/12 P | I                                      | Wires                          | Wires                           | 1                  |

Product family datasheet

| Certificates & standards |                              |                                                                                                                                                          |                  |                    |
|--------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|
| Product description      | Approval marks – approval    | Standards                                                                                                                                                | Protection class | Type of protection |
| OT FIT 60/220-240/12 P   | CE / CCC / ENEC / TISI / RCM | 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 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384 | I                | IP66/IP67          |
| OT FIT 150/220-240/12 P  | CE / CCC / ENEC / TISI / RCM | 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 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384 | I                | IP66/IP67          |
| OT FIT 300/220-240/12 P  | CE / CCC / ENEC / TISI / RCM | 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 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384 | I                | IP66/IP67          |

| Product description     | Logistical data | Environmental information<br>Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |                            |                            |
|-------------------------|-----------------|----------------------------------------------------------------------------------------------------|----------------------------|----------------------------|
|                         | Commodity code  | Date of Declaration                                                                                | Primary Article Identifier | Candidate List Substance 1 |
| OT FIT 60/220-240/12 P  | 85044083900     | 02-11-2023                                                                                         | 4062172133487              | Lead                       |
| OT FIT 150/220-240/12 P | 85044083900     | 08-09-2023                                                                                         | 4062172133500              | Lead                       |
| OT FIT 300/220-240/12 P | 85044083900     | 08-09-2023                                                                                         | 4062172133548              | Lead                       |

| Product description     | CAS No. of substance 1 | Safe Use Instruction                                                                               | Declaration No. in SCIP database     |
|-------------------------|------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------|
| OT FIT 60/220-240/12 P  | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 1e137453-4bbb-4752-a12a-f0fd7442c94e |
| OT FIT 150/220-240/12 P | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 5941b12c-fdbd-4665-be0a-8342b8906820 |

Product family datasheet

| Product description     | CAS No. of substance<br>1 | Safe Use Instruction                                                                               | Declaration No. in<br>SCIP database  |
|-------------------------|---------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------|
| OT FIT 300/220-240/12 P | 7439-92-1                 | The identification of the Candidate List substance is sufficient to allow safe use of the article. | f6f619d4-fd85-43b3-ad54-4e74de23f6ac |

- 1)

At full load, 230 V, 50 Hz / see graphs
- 2)

Typical, Full load, 230 VAC, 50 Hz / 60 Hz
- 3)

at 230 V, 50 Hz
- 4)

At Full Load, 240VAC, Cold StartDuration=250uS 50% Ipk – 50% Ipk
- 5)

at steady state
- 6)

ripple @ 100 Hz / full load
- 7)

H05RN-F/3x1.0 mm2
- 8)

H05RN-F/2x1.0 mm2
- 9)

At fullload, Tc not exceeded
- 10)

Non-condensing
- 11)

$T_c = 80^{\circ}\text{C}$ , 0.2% / 1,000 h failure rate
- 12)

At Full Load, 240VAC, Cold StartDuration=500uS 50%Ipk – 50%Ipk
- 13)

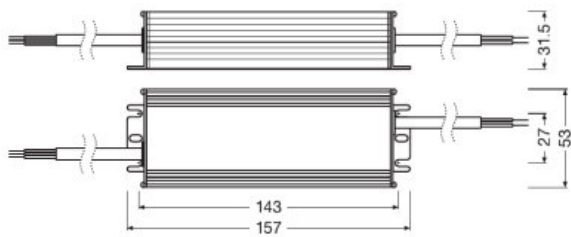
H07RN-F/2X1.5mm<sup>2</sup>
- 14)

$t_c = 80^{\circ}\text{C}$  - 0.2% / 1'000 h failure rate
- 15)

At Full Load, 240VAC, Cold StartDuration=800uS 50%Ipk – 50%Ipk
- 16)

H07RN-F/2x2.5 mm2

Product family datasheet



Line drawing of OT FIT 60220-24012 P



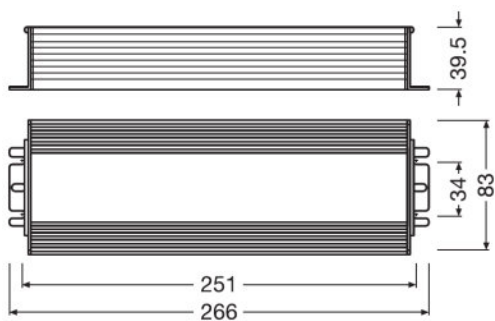
Line drawing of OT FIT 60220-24012 P



Line drawing of OT FIT 150220-24012 P



Line drawing of OT FIT 150220-24012 P



Line drawing of OT FIT 300220-24012 P



Line drawing of OT FIT 300220-24012 P

# Product family datasheet

## Application advice

For more detailed application information and graphics please see product datasheet.

## Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

## Download Data

| File                                                                                |                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------|
|    | User instruction<br>OPTOTRONIC LED Power Supply               |
|    | Product Datasheet<br>Datasheet-OT FIT 60_220-240_12_P         |
|    | Declarations of conformity<br>OT FIT 12P CE 4192443 02 220222 |
|   | CAD data 3-dim<br>OT FIT 60 220-240 12 P - 3D stp file        |
|  | Product Datasheet<br>Datasheet-OT FIT 150_220-240_12_P        |
|  | CAD data 3-dim<br>OT FIT 150 220-240 12 P - 3D stp file       |
|  | Product Datasheet<br>Datasheet-OT FIT 300_220-240_12_P        |
|  | CAD data 3-dim<br>OT FIT 300 220-240 12 P - 3D stp file       |

## 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 family datasheet

Logistical Data

| Product code  | Product description     | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume                | Gross weight |
|---------------|-------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4062172133487 | OT FIT 60/220-240/12 P  | Shipping carton box<br>15    | 349 mm x 224 mm x 153 mm             | 11.96 dm <sup>3</sup> | 7430.00 g    |
| 4062172133500 | OT FIT 150/220-240/12 P | Shipping carton box<br>15    | 349 mm x 284 mm x 153 mm             | 15.16 dm <sup>3</sup> | 14185.00 g   |
| 4062172133548 | OT FIT 300/220-240/12 P | Shipping carton box<br>10    | 419 mm x 329 mm x 123 mm             | 16.96 dm <sup>3</sup> | 15747.00 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.