

## CV Power supplies 12 V



### Product family benefits

- Versatile scope of application due to output power range of up to 300 W
- Very high efficiency
- IP rating: up to IP67
- High surge protection: up to 6 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 output power	Mains frequency	Nominal voltage	Nominal current	Device power loss	Power factor $\lambda$	Inrush current
OT 15/220...240/12 P	15 W <sup>1)</sup>	50...60 Hz	220...240 V	0.18 A <sup>2)</sup>	3.0 W	> 0.5 <sup>3)</sup>	20 A <sup>4)</sup>
OT 30/220...240/12 P	30 W <sup>10)</sup>	50...60 Hz	220...240 V	0.19 A <sup>11)</sup>	5.0 W	0.95/0.90 <sup>12)</sup>	30 A <sup>4)</sup>
OT FIT 60/220-240/12 P	60 W	50...60 Hz	220...240 V	0.36 A	8.6 W	0.95 <sup>13)</sup>	45 A <sup>14)</sup>
OT FIT 150/220-240/12 P	150 W	50...60 Hz	220...240 V	0.85 A	14.8 W	0.95 <sup>13)</sup>	55 A <sup>17)</sup>
OT FIT 300/220-240/12 P	300 W	50...60 Hz	220...240 V	1.8 A	28 W	0.95 <sup>13)</sup>	70 A <sup>18)</sup>

Product description	Galvanic isolation primary/secondary	Input voltage AC	Nominal output voltage	Efficiency in full-load	Output ripple Voltage (100 Hz)
OT 15/220...240/12 P	3.75 kV <sup>5)</sup>	198...264 V <sup>6)</sup>	12.5 V <sup>7)</sup>	79 % <sup>8)</sup>	
OT 30/220...240/12 P	3.75 kV <sup>5)</sup>	198...264 V <sup>6)</sup>	12.5 V <sup>7)</sup>	83 % <sup>8)</sup>	
OT FIT 60/220-240/12 P		198...264 V	12.5 V	87 % <sup>8)</sup>	< 3 % <sup>15)</sup>
OT FIT 150/220-240/12 P		198...264 V	12.5 V	91 % <sup>8)</sup>	< 3 % <sup>15)</sup>
OT FIT 300/220-240/12 P		198...264 V	12.5 V	91 % <sup>8)</sup>	< 3 % <sup>15)</sup>

Product description	Dimensions & weight					
	Length	Width	Height	Mounting hole spacing, length	Product weight	Mounting hole spacing, width
OT 15/220...240/12 P	237.0 mm	20.0 mm	22.0 mm	228.0 mm	170.00 g	
OT 30/220...240/12 P	220.0 mm	40.0 mm	22.0 mm	213.0 mm	330.00 g	
OT FIT 60/220-240/12 P	157.0 mm	53.0 mm	31.5 mm	153 mm	473.00 g	27.0 mm
OT FIT 150/220-240/12 P	202.0 mm	53.0 mm	31.5 mm	188.0 mm	920.00 g	27.0 mm
OT FIT 300/220-240/12 P	266.0 mm	83.0 mm	39.5 mm	251 mm	1510.00 g	34.0 mm

Product description	Temperatures & operating conditions		Capabilities	
	Ambient temperature range	Permitted rel. humidity during operation	Suitable for fixtures with prot. class	Overheating protection
OT 15/220...240/12 P	-25...+55 °C	5...85 % <sup>9)</sup>	II	Automatic reversible
OT 30/220...240/12 P	-25...+55 °C	5...85 % <sup>9)</sup>	II	Automatic reversible
OT FIT 60/220-240/12 P	-40...+50 °C <sup>16)</sup>	5...85 % <sup>9)</sup>	I / II	Automatic reversible
OT FIT 150/220-240/12 P	-40...+50 °C <sup>16)</sup>	5...85 % <sup>9)</sup>	I / II	Automatic reversible
OT FIT 300/220-240/12 P	-40...+50 °C <sup>16)</sup>	5...85 % <sup>9)</sup>	I / II	Automatic reversible

Product description	Overload protection	Short-circuit protection	No-load proof	Dimmable	Number of channels
OT 15/220...240/12 P	Automatic reversible	Automatic reversible	Yes	No	1
OT 30/220...240/12 P	Automatic reversible	Automatic reversible	Yes	No	1

## Product family datasheet

Product description	Overload protection	Short-circuit protection	No-load proof	Dimmable	Number of channels
OT FIT 60/220-240/12 P	Automatic reversible	Automatic reversible	Yes	No	1
OT FIT 150/220-240/12 P	Automatic reversible	Automatic reversible	Yes	No	1
OT FIT 300/220-240/12 P	Automatic reversible	Automatic reversible	Yes	No	1

Product description	Certificates & standards			Logistical data
	Type of protection	Standards	Approval marks – approval	Commodity code
OT 15/220...240/12 P	IP66	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to CISPR 15/Acc. to EN 61000-3-2/Acc. to EN 61547	CE / ENEC 18 / CB / CCC / EAC	850440829000
OT 30/220...240/12 P	IP66	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	CE / ENEC 18 / CB / CCC / RCM / EAC / BIS	850440829000
OT FIT 60/220-240/12 P	IP66/IP67	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	CE / CCC / ENEC / TISI / RCM	850440829000
OT FIT 150/220-240/12 P	IP66/IP67	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	CE / CCC / ENEC / TISI / RCM	850440829000
OT FIT 300/220-240/12 P	IP66/IP67	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	CE / CCC / ENEC / TISI / RCM	850440829000

Product description	Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)			
	Date of Declaration	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1
OT 15/220...240/12 P	14-04-2022	4052899905559	Lead	7439-92-1
OT 30/220...240/12 P	14-04-2022	4052899905542	Lead	7439-92-1
OT FIT 60/220-240/12 P	14-04-2022	4062172133487	Lead	7439-92-1
OT FIT 150/220-240/12 P	14-04-2022	4062172133500	Lead	7439-92-1
OT FIT 300/220-240/12 P	14-04-2022	4062172133548	Lead	7439-92-1

## Product family datasheet

Product description	Safe Use Instruction	Declaration No. in SCIP database
OT 15/220...240/12 P	The identification of the Candidate List substance is sufficient to allow safe use of the article.	A93F415F-A9B1-443E-BBFA-33BC38FD9142
OT 30/220...240/12 P	The identification of the Candidate List substance is sufficient to allow safe use of the article.	cc620f72-2069-4f5b-bae1-bdb422cdf07d
OT FIT 60/220-240/12 P	The identification of the Candidate List substance is sufficient to allow safe use of the article.	83225a96-ec66-4d9e-b434-883713d2a5db
OT FIT 150/220-240/12 P	The identification of the Candidate List substance is sufficient to allow safe use of the article.	e25c5e1d-f2bf-4001-ae33-57a4ef9240c6
OT FIT 300/220-240/12 P	The identification of the Candidate List substance is sufficient to allow safe use of the article.	9c455ed5-829e-47b2-a69b-00266d8ecc13

1) Partial load 0...15 W

2) Maximum at 230 V

3) Full load at 230 V

4)  $t_{width} = 170 \mu s$  (measured at 50 %  $I_{peak}$ )

5) SELV-equivalent

6)  $V_{AC}$

7)  $\pm 0.5 V$

8) at 230 V, 50 Hz

9) Non-condensing

10) Partial load 0...30 W

11) At 230 V

12) Full load at 230 V/Half load at 230 V

13) Typical, Full load, 230 VAC, 50 Hz / 60 Hz

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

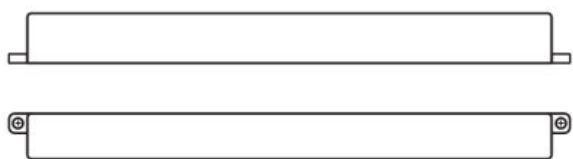
15) ripple @ 100 Hz / full load

16) At fullload, Tc not exceeded

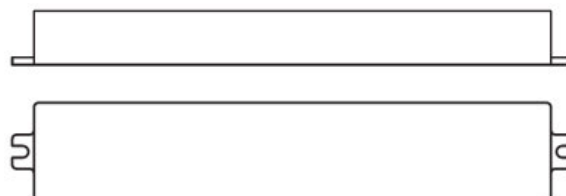
17) At Full Load, 240VAC, Cold StartDuration=500uS 50% Ipk – 50% Ipk

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

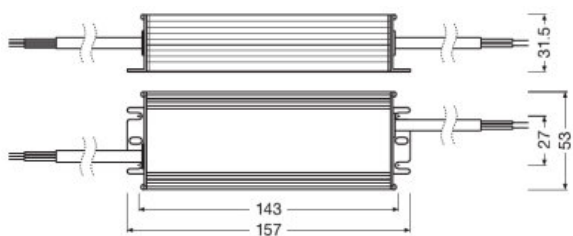
# Product family datasheet



340660\_OPTOTRONIC OT 15220-24012 P



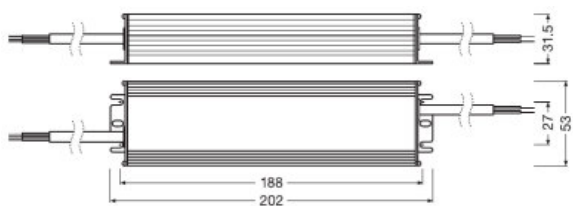
340658\_OPTOTRONIC OT 30220-24012 P



Line drawing of OT FIT 60220-24012 P



Line drawing of OT FIT 60220-24012 P

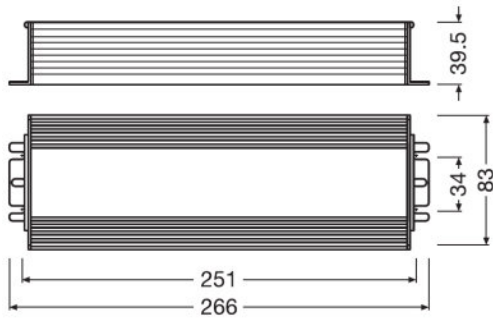


Line drawing of OT FIT 150220-24012 P



Line drawing of OT FIT 150220-24012 P

## Product family datasheet



Line drawing of OT FIT 300220-24012 P



Line drawing of OT FIT 300220-24012 P

### 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)















### Country specific information

Product description	Product code	METEL-Code	SEG-No.	STK number	UK Org
OT 15/220...240/12 P	4052899905559	-	-	4030247	-
OT 15/220...240/12 P	4052899905559	-	-	4030247	-
OT 30/220...240/12 P	4052899905542	-	-	4030248	-
OT 30/220...240/12 P	4052899905542	-	-	4030248	-

### Download Data

File	
	Product Datasheet Datasheet OT 15220-24012 P
	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)

## Product family datasheet

	Certificates 345363_CB-Certificate OT15 220 240 12P
	Declarations of conformity 728507_EU Declaration OT
	Declarations of conformity EU Declaration of Conformity 3540579
	Installation/Operation notice 344925_Instruction Sheet_OT 15220-24012 P
	CAD data 3-dim OT 15 220-240 12V P- 3D stp file
	Product Datasheet Datasheet OT 30220-24012 P
	CAD data 3-dim OT 30 220-240 12 P-3D stp file
	User instruction OPTOTRONIC LED Power Supply
	Declarations of conformity OT FIT 12P CE 4192443 02 220222
	CAD data 3-dim OT FIT 60 220-240 12 P - 3D stp file
	Product Datasheet Datasheet-OT FIT 150_220-240_12_P
	CAD data 3-dim OT FIT 150 220-240 12 P - 3D stp file
	Product Datasheet Datasheet-OT FIT 300_220-240_12_P
	CAD data 3-dim 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

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### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899905559	OT 15/220...240/12 P	Shipping carton box 50	356 mm x 309 mm x 209 mm	22.99 dm <sup>3</sup>	11035.00 g
4052899905542	OT 30/220...240/12 P	Shipping carton box 30	356 mm x 292 mm x 223 mm	23.18 dm <sup>3</sup>	12005.00 g
4062172133487	OT FIT 60/220-240/12 P	Shipping carton box 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 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 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.

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### Disclaimer

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