

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 λ	Efficiency in full-load
OT FIT 60/220-240/12 P	220...240 V	50...60 Hz	198...264 V	< 5 % ¹⁾	0.95 ²⁾	87 % ³⁾
OT FIT 150/220-240/12 P	220...240 V	50...60 Hz	198...264 V	< 5 % ¹⁾	0.95 ²⁾	91 % ³⁾
OT FIT 300/220-240/12 P	220...240 V	50...60 Hz	198...264 V	< 5 % ¹⁾	0.95 ²⁾	91 % ³⁾

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 ⁴⁾	14	6	23	13
OT FIT 150/220-240/12 P	14.8 W	55 A ¹²⁾	9	4	16	7
OT FIT 300/220-240/12 P	28 W	70 A ¹⁵⁾	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 ⁵⁾	SELV	< 3 % ⁶⁾	6 kV	153 mm
OT FIT 150/220-240/12 P	150 W ⁵⁾	SELV	< 3 % ⁶⁾	6 kV	188.0 mm
OT FIT 300/220-240/12 P	300 W ⁵⁾	SELV	< 3 % ⁶⁾	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 ² ⁷⁾	1.0 mm ² ⁸⁾	60 mm	10 mm
OT FIT 150/220-240/12 P	92000 g	1.0 mm ² ⁷⁾	1.5 mm ² ¹³⁾	60 mm	10 mm
OT FIT 300/220-240/12 P	151000 g	1.0 mm ² ⁷⁾	2.5 mm ² ¹⁶⁾	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 ⁹⁾	80 °C	-	-40...+85 °C
OT FIT 150/220-240/12 P	-40...+50 °C ⁹⁾	90 °C	-	-40...+85 °C
OT FIT 300/220-240/12 P	-40...+50 °C ⁹⁾	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 % ¹⁰⁾	50000 h ¹¹⁾	4008321790811	No	Automatic reversible
OT FIT 150/220-240/12 P	5...85 % ¹⁰⁾	50000 h ¹⁴⁾	4008321790835	No	Automatic reversible
OT FIT 300/220-240/12 P	5...85 % ¹⁰⁾	50000 h ¹¹⁾		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 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 1	Safe Use Instruction	Declaration No. in 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)

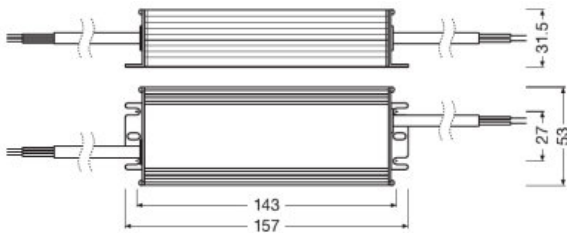
At Full Load, 240VAC, Cold StartDuration=500uS 50%Ipk – 50%Ipk
- 13)

H07RN-F/2X1.5mm²
- 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



Line drawing of OT FIT 60220-24012 P



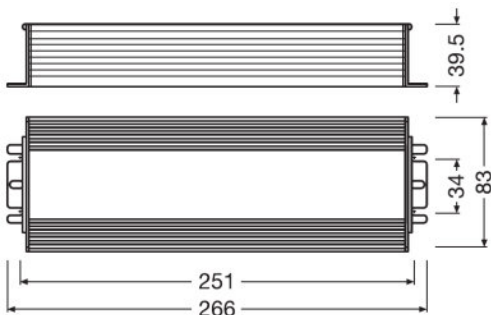
Line drawing of OT FIT 60220-24012 P



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

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Datasheet-OT FIT 60_220-240_12_P
	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

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 15	349 mm x 224 mm x 153 mm	11.96 dm ³	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 ³	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 ³	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.