

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 λ	Inrush current
OT 15/220...240/12 P	15 W ¹⁾	50...60 Hz	220...240 V	0.18 A ²⁾	3.0 W	> 0.5 ³⁾	20 A ⁴⁾
OT 30/220...240/12 P	30 W ⁹⁾	50...60 Hz	220...240 V	0.19 A ¹⁰⁾	5.0 W	0.95/0.90 ¹¹⁾	30 A ⁴⁾
OT 60/220...240/12 P	60 W ¹²⁾	50...60 Hz	220...240 V	0.33 A ¹⁰⁾	9.0 W	0.98/0.93 ¹¹⁾	35 A ⁴⁾
OTe 60/110...277/12 E	60 W ¹⁴⁾	50...60 Hz	110...277 V	0.35 A	9.0 W	0.95/0.90/0.95/0.90 ¹⁵⁾	15 / 40 A ¹⁶⁾
OT FIT 60/220-240/12 P	60 W	50...60 Hz	220...240 V	0.36 A	8.6 W	0.95 ¹⁸⁾	45 A ¹⁹⁾
OT 120/220...240/12 P	120 W ²²⁾	50...60 Hz	220...240 V	0.70 A ¹⁰⁾	18 W	0.98/0.95 ¹¹⁾	40 A ²³⁾
OTe 120/110...277/12 E	120 W ²⁴⁾	50...60 Hz	110...277 V	0.70 A ¹⁰⁾	18 W ²⁵⁾	0.95/0.90 ¹¹⁾	109 A ²⁶⁾
OT FIT 150/220-240/12 P	150 W	50...60 Hz	220...240 V	0.85 A	14.8 W	0.95 ¹⁸⁾	55 A ²⁸⁾
OT FIT 300/220-240/12 P	300 W	50...60 Hz	220...240 V	1.8 A	28 W	0.95 ¹⁸⁾	70 A ²⁹⁾

Product description	Galvanic isolation primary/secondary	Nominal output voltage	Input voltage AC	Output ripple Voltage (100 Hz)	Dimensions & weight
					Length
OT 15/220...240/12 P	3.75 kV ⁵⁾	12.5 V ⁶⁾	198...264 V ⁷⁾		237.0 mm
OT 30/220...240/12 P	3.75 kV ⁵⁾	12.5 V ⁶⁾	198...264 V ⁷⁾		220.0 mm
OT 60/220...240/12 P	3.75 kV ⁵⁾	12.5 V ⁶⁾	198...264 V ⁷⁾		180.0 mm
OTe 60/110...277/12 E	3.75 kV ⁵⁾	12.5 V ⁶⁾	100...305 V ⁷⁾		241.0 mm
OT FIT 60/220-240/12 P		12.5 V	198...264 V	< 3 % ²⁰⁾	157.0 mm
OT 120/220...240/12 P	3.75 kV ⁵⁾	12.5 V ⁶⁾	198...264 V ⁷⁾		250.0 mm
OTe 120/110...277/12 E	3.75 kV ⁵⁾	12.5 V ⁶⁾	100...305 V ²⁷⁾		258.0 mm
OT FIT 150/220-240/12 P		12.5 V	198...264 V	< 3 % ²⁰⁾	202.0 mm
OT FIT 300/220-240/12 P		12.5 V	198...264 V	< 3 % ²⁰⁾	266.0 mm

Product description	Width	Height	Mounting hole spacing, length	Product weight	Mounting hole spacing, width	Temperatures & operating conditions
						Ambient temperature range
OT 15/220...240/12 P	20.0 mm	22.0 mm	228.0 mm	170.00 g		-25...+55 °C
OT 30/220...240/12 P	40.0 mm	22.0 mm	213.0 mm	330.00 g		-25...+55 °C
OT 60/220...240/12 P	50.0 mm	34.0 mm	171.0 mm	700.00 g	14.0 mm ¹³⁾	-25...+55 °C
OTe 60/110...277/12 E	43.0 mm	30.0 mm	227.0 mm	600.00 g		-25...+55 °C
OT FIT 60/220-240/12 P	53.0 mm	31.5 mm	153 mm	473.00 g	27.0 mm	-40...+50 °C ²¹⁾
OT 120/220...240/12 P	60.0 mm	39.0 mm	241.0 mm	1150.00 g	15.0 mm ¹³⁾	-25...+55 °C
OTe 120/110...277/12 E	51.2 mm	44.5 mm	246.0 mm	1150.00 g		-25...+55 °C
OT FIT 150/220-240/12 P	53.0 mm	31.5 mm	188.0 mm	920.00 g	27.0 mm	-40...+50 °C ²¹⁾
OT FIT 300/220-240/12 P	83.0 mm	39.5 mm	251 mm	1510.00 g	34.0 mm	-40...+50 °C ²¹⁾

Product family datasheet

Product description	Permitted rel. humidity during operation	Capabilities			
		Suitable for fixtures with prot. class	Overheating protection	Overload protection	Short-circuit protection
OT 15/220...240/12 P	5...85 % ⁸⁾	II	Automatic reversible	Automatic reversible	Automatic reversible
OT 30/220...240/12 P	5...85 % ⁸⁾	II	Automatic reversible	Automatic reversible	Automatic reversible
OT 60/220...240/12 P	5...85 % ⁸⁾	II	Automatic reversible	Automatic reversible	Automatic reversible
OTe 60/110...277/12 E	5...85 % ¹⁷⁾	I	Automatic reversible	Automatic reversible	Automatic reversible
OT FIT 60/220-240/12 P	5...85 % ⁸⁾	I / II	Automatic reversible	Automatic reversible	Automatic reversible
OT 120/220...240/12 P	5...85 % ⁸⁾	I	Automatic reversible	Automatic reversible	Automatic reversible
OTe 120/110...277/12 E	5...85 % ¹⁷⁾	I	Automatic reversible	Automatic reversible	Automatic reversible
OT FIT 150/220-240/12 P	5...85 % ⁸⁾	I / II	Automatic reversible	Automatic reversible	Automatic reversible
OT FIT 300/220-240/12 P	5...85 % ⁸⁾	I / II	Automatic reversible	Automatic reversible	Automatic reversible

				Certificates & standards
Product description	No-load proof	Number of channels	Dimmable	Type of protection
OT 15/220...240/12 P	Yes	1	No	IP66
OT 30/220...240/12 P	Yes	1	No	IP66
OT 60/220...240/12 P	Yes	1	No	IP67
OTe 60/110...277/12 E	Yes	1	No	IP64
OT FIT 60/220-240/12 P	Yes	1	No	IP66/IP67
OT 120/220...240/12 P	Yes	1	No	IP67
OTe 120/110...277/12 E	Yes	1	No	IP64
OT FIT 150/220-240/12 P	Yes	1	No	IP66/IP67

Product family datasheet

				Certificates & standards
Product description	No-load proof	Number of channels	Dimmable	Type of protection
OT FIT 300/220-240/12 P	Yes	1	No	IP66/IP67

			Logistical data	Environmental information
Product description	Standards	Approval marks – approval	Commodity code	Date of Declaration
OT 15/220...240/12 P	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	18-11-2021
OT 30/220...240/12 P	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	18-11-2021
OT 60/220...240/12 P	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 61000-3-3/Acc. to IEC 61547	CE / ENEC 18 / CB / CCC / RCM / EAC / BIS	850440829000	18-11-2021
OTe 60/110...277/12 E	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 61000-3-3/Acc. to IEC 61547	CE / CB / CCC / BIS	850440829000	10-11-2021
OT FIT 60/220-240/12 P	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	18-11-2021
OT 120/220...240/12 P	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 61000-3-3/Acc. to IEC 61547	CE / ENEC 18 / CB / CCC / RCM / EAC / BIS	850440829000	18-11-2021
OTe 120/110...277/12 E	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to CISPR 15/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547	CE / CB / CCC / BIS	850440829000	10-11-2021

Product family datasheet

Product description	Standards	Approval marks – approval	Logistical data	Environmental information
			Commodity code	Date of Declaration
OT FIT 150/220-240/12 P	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	18-11-2021
OT FIT 300/220-240/12 P	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	18-11-2021

Product description	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1	Declaration No. in SCIP database
OT 15/220...240/12 P	4052899905559	No declarable substances contained	No CAS	No declarable substances contained
OT 30/220...240/12 P	4052899905542	No declarable substances contained	No CAS	No declarable substances contained
OT 60/220...240/12 P	4008321790811	No declarable substances contained	No CAS	No declarable substances contained
OTe 60/110...277/12 E	4008321794338	No declarable substances contained	No CAS	No declarable substances contained
OT FIT 60/220-240/12 P	4062172133487	No declarable substances contained	No CAS	83225a96-ec66-4d9e-b434-883713d2a5db
OT 120/220...240/12 P	4008321790835	No declarable substances contained	No CAS	No declarable substances contained
OTe 120/110...277/12 E	4008321821263	No declarable substances contained	No CAS	No declarable substances contained
OT FIT 150/220-240/12 P	4062172133500	No declarable substances contained	No CAS	e25c5e1d-f2bf-4001-ae33-57a4ef9240c6
OT FIT 300/220-240/12 P	4062172133548	Lead	7439-92-1	9c455ed5-829e-47b2-a69b-00266d8ecc13

Product description	Safe Use Instruction
OT 15/220...240/12 P	
OT 30/220...240/12 P	
OT 60/220...240/12 P	
OTe 60/110...277/12 E	

Product family datasheet

Product description	Safe Use Instruction
OT FIT 60/220-240/12 P	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT 120/220...240/12 P	
OTe 120/110...277/12 E	
OT FIT 150/220-240/12 P	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT FIT 300/220-240/12 P	The identification of the Candidate List substance is sufficient to allow safe use of the article.

1) Partial load 0...15 W

2) Maximum at 230 V

3) Full load at 230 V

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

5) SELV-equivalent

6) $\pm 0.5 \text{ V}$

7) V_{AC}

8) Non-condensing

9) Partial load 0...30 W

10) At 230 V

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

12) Partial load 0...60 W

13) Side mounting

14) Partial load 6...60 W

15) Full load at 110 V/Half load at 110 V/Full load at 230 V/Half load at 230 V

16) 200 μs at 110 V

17) Maximum 56 days/year at 85 %

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

19) At Full Load, 240VAC, Cold StartDuration=250uS 50% I_{pk} – 50% I_{pk}

20) ripple @ 100 Hz / full load

21) At fullload, T_c not exceeded

22) Partial load 0...120 W

23) At 300 μs

24) Partial load 12...120 W

25) Maximum

26) At 250 μs

27) Permitted voltage range

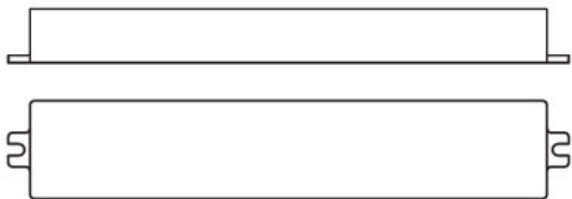
28) At Full Load, 240VAC, Cold StartDuration=500uS 50% I_{pk} – 50% I_{pk}

29) At Full Load, 240VAC, Cold StartDuration=800uS 50% I_{pk} – 50% I_{pk}

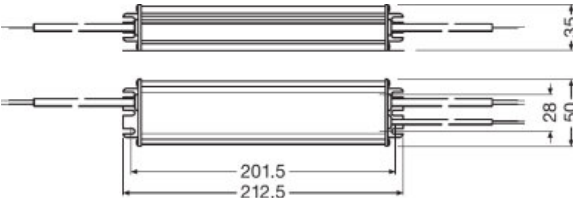
Product family datasheet



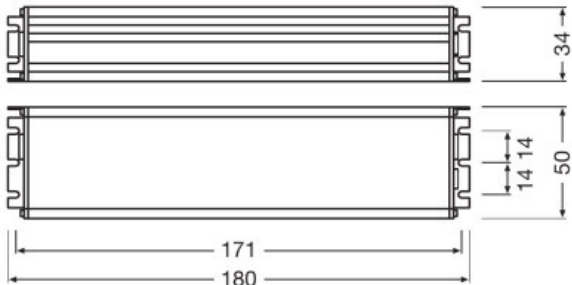
340660_OPTOTRONIC OT 15220-24012 P



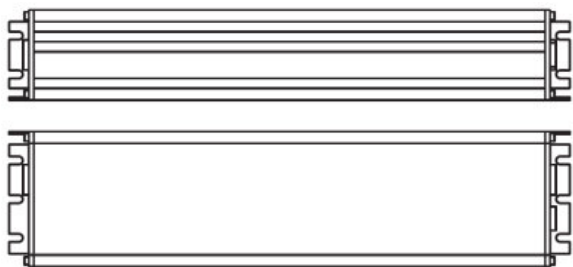
340658_OPTOTRONIC OT 30220-24012 P



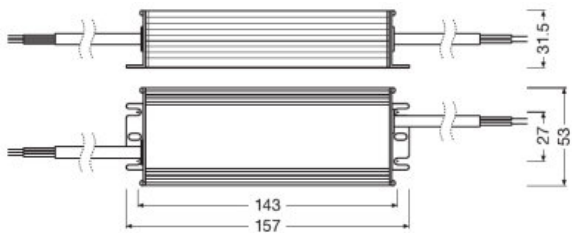
OT 60220-24012 DIM P



502855_OT 60220-24012 P



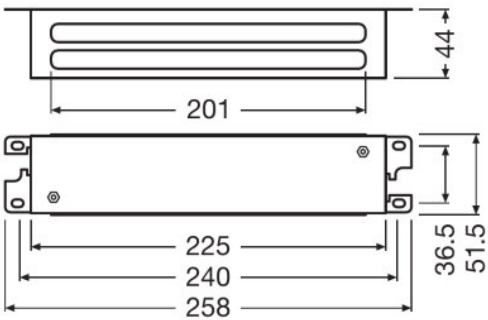
329501_OPTOTRONIC OT 120220-24024 DIM P



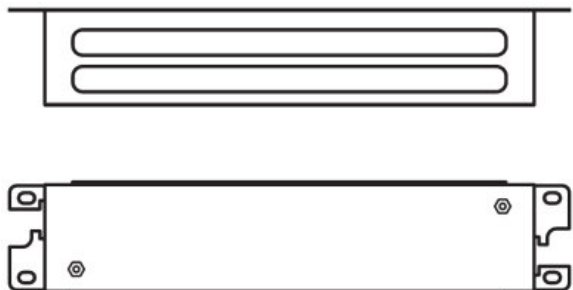
Line drawing of OT FIT 60220-24012 P



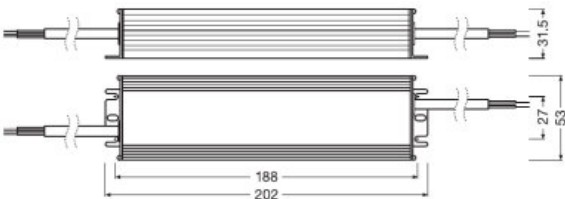
Line drawing of OT FIT 60220-24012 P



384170_OTe 120-base line drawing



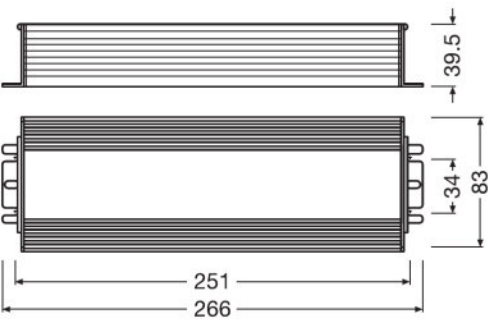
384168_OTe 120-base line drawing



Line drawing of OT FIT 150220-24012 P



Line drawing of OT FIT 150220-24012 P



Line drawing of OT FIT 300220-24012 P

Product family datasheet



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

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	-
OT 60/220...240/12 P	4008321790811	-	-	4030025	-
OT 60/220...240/12 P	4008321790811	-	-	4030025	-
OT 120/220...240/12 P	4008321790835	-	-	4030026	-
OT 120/220...240/12 P	4008321790835	-	-	4030026	-

Product family datasheet

Download Data

File	
	Product Datasheet Datasheet OT 15220-24012 P
	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)
	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
	Product Datasheet 340365_OPTOTRONIC OT 60220-24012 P
	Product Datasheet 343030_Datasheet OTe 60110-27712 E
	Declarations of conformity EU Declaration of Conformity 3565780
	Installation guide 387990_Instruction Sheet OTe 60110-27012 E
	User instruction OPTOTRONIC LED Power Supply
	Declarations of conformity OT FIT 12P CE 4192443 02 130220
	CAD data 3-dim OT FIT 60 220-240 12 P - 3D stp file
	Product Datasheet 340366_OPTOTRONIC OT 120220-24012 P
	Certificates 545902_ENEC certificate OT 120220-24012 P
	Certificates 545903_ENEC certificate-R OT 120220-24012 P
	Installation guide 343881_Instruction Sheet_OT 120220-24012 P
	Addon Technical Information 350855_Data sheet_OTe 120110-27712 E

Product family datasheet

	Installation/Operation notice 350856_Instruction sheet OTe 120_110-277 12 E
	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.

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 ³	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 ³	12005.00 g
4008321790811	OT 60/220...240/12 P	Shipping carton box 10	574 mm x 137 mm x 323 mm	25.40 dm ³	7593.00 g
4008321794338	OTe 60/110...277/12 E	Shipping carton box 10	278 mm x 268 mm x 126 mm	9.39 dm ³	6546.00 g
4062172133487	OT FIT 60/220-240/12 P	Shipping carton box 15	349 mm x 224 mm x 153 mm	11.96 dm ³	7430.00 g
4008321790835	OT 120/220...240/12 P	Shipping carton box 10	589 mm x 155 mm x 399 mm	36.43 dm ³	13000.00 g
4008321821263	OTe 120/110...277/12 E	Shipping carton box 10	408 mm x 302 mm x 141 mm	17.37 dm ³	12459.00 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

Product family datasheet

Logistical Data

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.