

CV Power supplies 12 V



Areas of application

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

Product 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)

Technical data

Electrical data

Product description	Nominal output power	Mains frequency	Nominal voltage	Nominal current	Device power loss	Power factor λ
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⁾
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⁾
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⁾
OT 120/220...240/12 P	120 W ¹³⁾	50...60 Hz	220...240 V	0.70 A ¹⁰⁾	18 W	0.98/0.95 ¹¹⁾
OTe 60/110...277/12 E	60 W ¹⁵⁾	50...60 Hz	110...277 V	0.35 A	9.0 W	0.95/0.90/0.95/0.90 ¹⁶⁾
OTe 120/110...277/12 E	120 W ¹⁹⁾	50...60 Hz	110...277 V	0.70 A ¹⁰⁾	18 W ²⁰⁾	0.95/0.90 ¹¹⁾

Product description	ECG efficiency	Inrush current	Galvanic isolation primary/secondary	Nominal output voltage	Input voltage AC
OT 15/220...240/12 P	80 % ⁴⁾	20 A ⁵⁾	3.75 kV ⁶⁾	12.5 V ⁷⁾	198...264 V ⁸⁾
OT 30/220...240/12 P	85 % ⁴⁾	30 A ⁵⁾	3.75 kV ⁶⁾	12.5 V ⁷⁾	198...264 V ⁸⁾
OT 60/220...240/12 P	86 % ⁴⁾	35 A ⁵⁾	3.75 kV ⁶⁾	12.5 V ⁷⁾	198...264 V ⁸⁾
OT 120/220...240/12 P	88 % ⁴⁾	40 A ¹⁴⁾	3.75 kV ⁶⁾	12.5 V ⁷⁾	198...264 V ⁸⁾
OTe 60/110...277/12 E	≥ 85 % ¹⁷⁾	15 / 40 A ¹⁸⁾	3.75 kV ⁶⁾	12.5 V ⁷⁾	100...305 V ⁸⁾
OTe 120/110...277/12 E	85 % ¹⁷⁾	109 A ²¹⁾	3.75 kV ⁶⁾	12.5 V ⁷⁾	100...305 V ²²⁾

1) Partial load 0...15 W

2) Maximum at 230 V

3) Full load at 230 V

4) At full load and 230 V

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

6) SELV-equivalent

7) ± 0.5 V

8) V_{AC}

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) Partial load 0...120 W

14) At 300 μs

15) Partial load 6...60 W

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

17) At full load and 110...230 V

18) 200 μs at 110 V

19) Partial load 12...120 W

20) Maximum

21) At 250 μs

22) Permitted voltage range

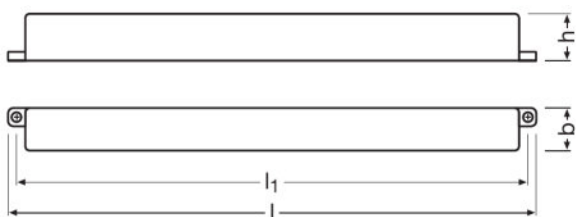
Product family datasheet

Dimensions & weight

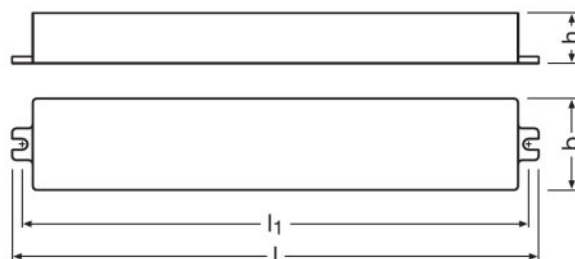
Product description	Length	Width	Height	Product weight	Mounting hole spacing, length	Mounting hole spacing, width
OT 15/220...240/12 P	237.0 mm	20.0 mm	22.0 mm	170.00 g	228.0 mm	
OT 30/220...240/12 P	220.0 mm	40.0 mm	22.0 mm	330.00 g	213.0 mm	
OT 60/220...240/12 P	180.0 mm	50.0 mm	34.0 mm	700.00 g	171.0 mm	14.0 mm ¹⁾
OT 120/220...240/12 P	250.0 mm	60.0 mm	39.0 mm	1150.00 g	241.0 mm	15.0 mm ¹⁾
OTe 60/110...277/12 E	241.0 mm	43.0 mm	30.0 mm	600.00 g	227.0 mm	
OTe 120/110...277/12 E	258.0 mm	51.2 mm	44.5 mm	1150.00 g	246.0 mm	

¹⁾ Side mounting

Product line drawing

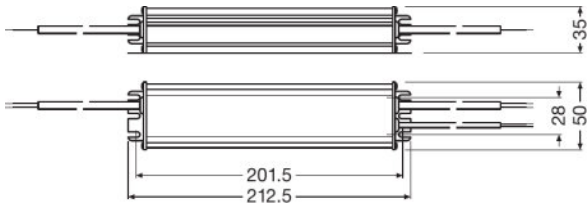


OT 15/220...240/12 P



OT 30/220...240/12 P

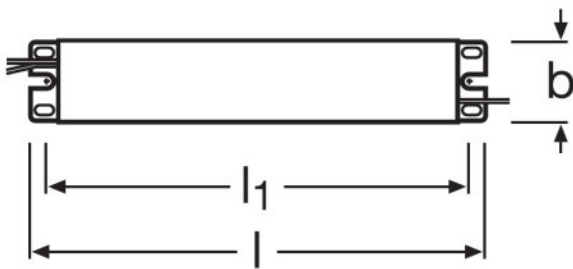
Product family datasheet



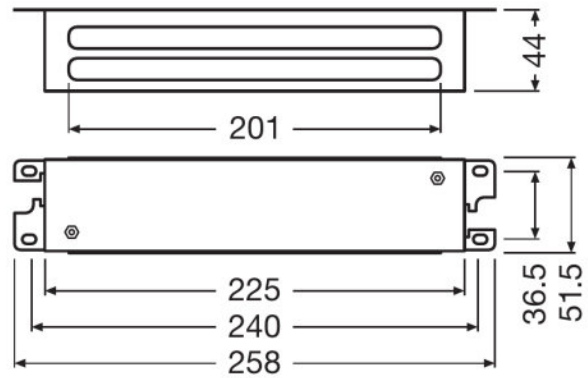
OT 60/220...240/12 P



OT 120/220...240/12 P



OTe 60/110...277/12 E



OTe 120/110...277/12 E

Product family datasheet

Temperatures & operating conditions

Product description	Ambient temperature range	Permitted rel. humidity during operation
OT 15/220...240/12 P	-25...+55 °C	5...85 % ¹⁾
OT 30/220...240/12 P	-25...+55 °C	5...85 % ¹⁾
OT 60/220...240/12 P	-25...+55 °C	5...85 % ¹⁾
OT 120/220...240/12 P	-25...+55 °C	5...85 % ¹⁾
OTe 60/110...277/12 E	-25...+55 °C	5...85 % ²⁾
OTe 120/110...277/12 E	-25...+55 °C	5...85 % ²⁾

¹⁾ Non-condensing

²⁾ Maximum 56 days/year at 85 %

Capabilities

Product description	Suitable for fixtures with prot. class	Overheating protection	Overload protection
OT 15/220...240/12 P	II	Automatic reversible	Automatic reversible
OT 30/220...240/12 P	II	Automatic reversible	Automatic reversible
OT 60/220...240/12 P	II	Automatic reversible	Automatic reversible
OT 120/220...240/12 P	I	Automatic reversible	Automatic reversible
OTe 60/110...277/12 E	I	Automatic reversible	Automatic reversible
OTe 120/110...277/12 E	I	Automatic reversible	Automatic reversible

Product description	Short-circuit protection	No-load proof	Number of channels	Dimmable
OT 15/220...240/12 P	Automatic reversible	Yes	1	No ¹⁾
OT 30/220...240/12 P	Automatic reversible	Yes	1	No ¹⁾
OT 60/220...240/12 P	Automatic reversible	Yes	1	No ¹⁾
OT 120/220...240/12 P	Automatic reversible	Yes	1	No ¹⁾
OTe 60/110...277/12 E	Automatic reversible	Yes	1	No
OTe 120/110...277/12 E	Automatic reversible	Yes	1	No

¹⁾ With OPTOTRONIC dimmers

Product family datasheet

Certificates & standards

Product description	Type of protection	Standards
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
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
OT 60/220...240/12 P	IP67	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
OT 120/220...240/12 P	IP67	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
OTe 60/110...277/12 E	IP64	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
OTe 120/110...277/12 E	IP64	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

Product description	Approval marks – approval
OT 15/220...240/12 P	CE / ENEC 18 / CB / CCC / EAC
OT 30/220...240/12 P	CE / ENEC 18 / CB / CCC / RCM / EAC / BIS
OT 60/220...240/12 P	CE / ENEC 18 / CB / CCC / RCM / EAC / BIS
OT 120/220...240/12 P	CE / ENEC 18 / CB / CCC / RCM / EAC / BIS
OTe 60/110...277/12 E	CE / CB / CCC / BIS
OTe 120/110...277/12 E	CE / CB / CCC / BIS

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 30/220...240/12 P	4052899905542	-	-	4030248	-
OT 60/220...240/12	4008321790811	-	-	4030025	-

Product family datasheet

P					
OT 120/220...240/12	4008321790835	-	-	4030026	-
P					

Download Data

File	
	Product Datasheet 344924_Datasheet_OT 15220-24012 P
	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
	Product Datasheet 342094_Datasheet_OT 30220-24012 P
	Installation guide 387989_Instruction Sheet OT 30220-24012 P
	Product Datasheet 340365_OPTOTRONIC OT 60220-24012 P
	Installation guide 387988_Instruction Sheet_OT 60220-24012 P
	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
	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
	Addon Technical Information 350855_Data sheet_OTe 120110-27712 E
	Installation/Operation notice 350856_Instruction sheet OTe 120_110-277 12 E

Product family datasheet

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	8753.00 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
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
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
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

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.