

## CV Power supplies 24 V



### Product family features

- DC mode functionality
- Type of protection: IP66 and IP67
- Surge protection: up to 4 kV (L-N) / 6 kV (L/N-PE)
- Wide operating temperature range: -30...+55 °C
- Lifetime: up to 50,000 h (temperature at max.  $t_c$ )

### Product family benefits

- Large range of products from 20 W to 250 W
- Installation in very cold and hot environments
- Very stable output power
- High electrical reversible short-circuit, overload, overtemperature protection
- Smart Power Supply: boosting power to turn on cold LEDs
- Independent installation possible

### Areas of application

- Facades, public squares, cruise ships
- Signage
- Suitable for indoor and outdoor installations

## Product family datasheet

### Technical data

Product description	Electrical data						
	Nominal output power	Mains frequency	Nominal voltage	Device power loss	Power factor $\lambda$	Inrush current	Galvanic isolation primary/secondary
OT 20/220...240/24 P	20 W	0...60 Hz	220...240 V	4.1 W	0.95	20 A	3 kV
OT 40/220...240/24 P	40 W	0...60 Hz	220...240 V	4.0 W	0.95	20 A	3 kV
OT 60/220...240/24 P	60 W	0...60 Hz	220...240 V	8.9 W	0.95	30 A	3 kV
OT 100/220...240/24 P	100 W	0...60 Hz	220...240 V	11.8 W	0.95	60 A	3 kV
OT 130/220...240/24 P	130 W	0...60 Hz	220...240 V	14.7 W	0.95	60 A	3 kV
OT 250/220...240/24 P	250 W	0...60 Hz	220...240 V	21.7 W	0.95	75 A	3 kV

Product description	Nominal output voltage	Input voltage DC	Input voltage AC	Dimensions & weight	
				Length	Width
OT 20/220...240/24 P	24.2 V	176...250 V	198...264 V	178.0 mm	43.0 mm
OT 40/220...240/24 P	24.2 V	176...250 V	198...264 V	208.0 mm	43.0 mm
OT 60/220...240/24 P	24.2 V	176...250 V	198...264 V	208.0 mm	43.0 mm
OT 100/220...240/24 P	24.2 V	176...250 V	198...264 V	240.0 mm	50.0 mm
OT 130/220...240/24 P	24.2 V	176...250 V	198...264 V	220.0 mm	63.0 mm
OT 250/220...240/24 P	24.2 V	176...250 V	198...264 V	265.0 mm	68.0 mm

Product description	Height	Mounting hole spacing, length	Product weight	Temperatures & operating conditions		Capabilities
				Ambient temperature range	Permitted rel. humidity during operation	Suitable for fixtures with prot. class
OT 20/220...240/24 P	25.0 mm	169.0 mm	315.00 g	-30...+55 °C	5...85 % <sup>1)</sup>	II
OT 40/220...240/24 P	26.0 mm	199.0 mm	416.00 g	-30...+55 °C	5...85 % <sup>1)</sup>	II
OT 60/220...240/24 P	26.0 mm	199.0 mm	420.00 g	-30...+50 °C	5...85 % <sup>1)</sup>	II
OT 100/220...240/24 P	34.0 mm	227.0 mm	765.00 g	-30...+55 °C	5...85 % <sup>1)</sup>	I
OT 130/220...240/24 P	37.0 mm	207.0 mm	943.00 g	-30...+55 °C	5...85 % <sup>1)</sup>	I
OT 250/220...240/24 P	40.0 mm	250.0 mm	1340.00 g	-30...+55 °C	5...85 % <sup>1)</sup>	I

Product description	Overheating protection	Overload protection	Short-circuit protection	No-load proof
OT 20/220...240/24 P	Yes	Yes	Yes	Yes
OT 40/220...240/24 P	Yes	Yes	Yes	Yes
OT 60/220...240/24 P	Yes	Yes	Yes	Yes
OT 100/220...240/24 P	Yes	Yes	Yes	Yes
OT 130/220...240/24 P	Yes	Yes	Yes	Yes
OT 250/220...240/24 P	Yes	Yes	Yes	Yes

## Product family datasheet

Product description	Dimmable	Number of channels	Certificates & standards	
			Type of protection	Standards
OT 20/220...240/24 P	No	1	IP66	Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384
OT 40/220...240/24 P	No	1	IP66	Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384
OT 60/220...240/24 P	No	1	IP66	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
OT 100/220...240/24 P	No	1	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
OT 130/220...240/24 P	No	1	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
OT 250/220...240/24 P	No	1	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

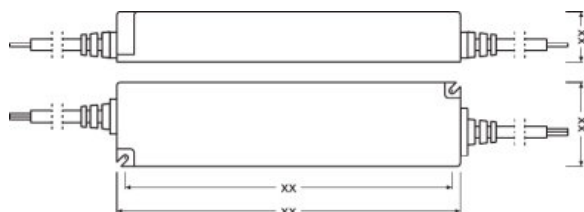
Product description	Approval marks – approval	Logistical data	Environmental information	
		Commodity code	Date of Declaration	Primary Article Identifier
OT 20/220...240/24 P	ENEC / RCM / CCC / EAC / CE	850440829000	23-12-2021	4052899545922
OT 40/220...240/24 P	ENEC / RCM / CCC / EAC / CE	850440829000	11-01-2022	4052899545946
OT 60/220...240/24 P	ENEC / RCM / CCC / EAC / CE	850440829000	23-12-2021	4052899545960
OT 100/220...240/24 P	ENEC / RCM / CCC / EAC / CE	850440829000	23-12-2021	4052899545984
OT 130/220...240/24 P	ENEC / RCM / CCC / EAC / CE	850440829000	23-12-2021	4052899546004
OT 250/220...240/24 P	ENEC / RCM / CCC / EAC / CE	850440829000	23-12-2021	4052899546028

## Product family datasheet

Product description	Candidate List Substance 1	CAS No. of substance 1	Declaration No. in SCIP database	Safe Use Instruction
OT 20/220...240/24 P	No declarable substances contained	No CAS	No declarable substances contained	
OT 40/220...240/24 P	No declarable substances contained	No CAS	No declarable substances contained	
OT 60/220...240/24 P	No declarable substances contained	No CAS	No declarable substances contained	
OT 100/220...240/24 P	Lead	7439-92-1	b0fa6f39-4845-48df-8314-bcd66b3d8175	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT 130/220...240/24 P	Lead	7439-92-1	cd5b3070-88ad-4fa8-afe9-36229712f418	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT 250/220...240/24 P	Lead	7439-92-1	ddc4e010-7a6d-4f77-8b4e-db7c3a118bc8	The identification of the Candidate List substance is sufficient to allow safe use of the article.

<sup>1)</sup> Maximum 56 days/year at 85 %

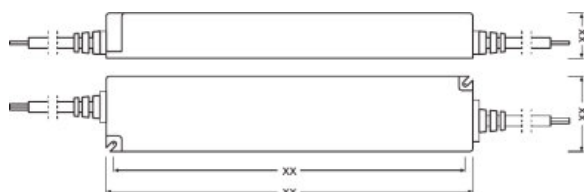
# Product family datasheet



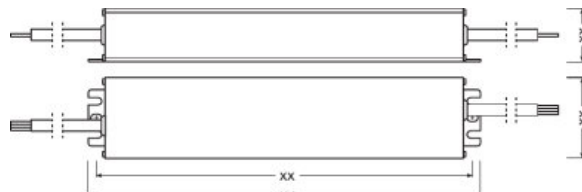
OT 20220-24024 P



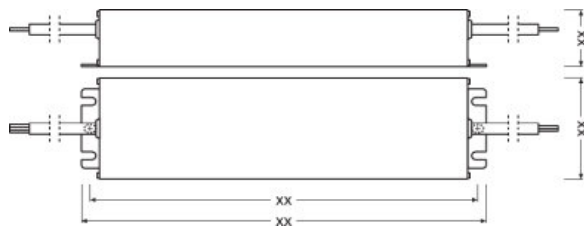
OT 40220-24024 P



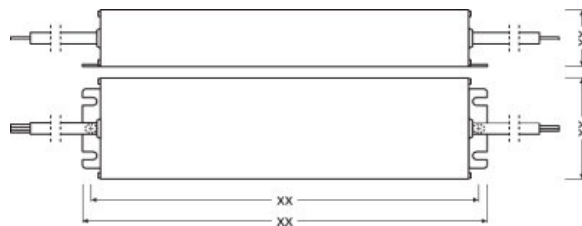
OT 60220-24024 P



OT 100220-24024 P



OT 130220-24024 P



OT 250220-24024 P

## Product family datasheet

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### Application advice

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

















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### Sales and Technical Support







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

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### Download Data

	File
	User instruction OPTOTRONIC LED Power Supply
	Product Datasheet Datasheet OT 20220-24024 P
	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)
	Certificates CCC Certificate No. 2018011002044637
	Certificates CB Test Certificate No. SG PSB-LE-00930
	Certificates ENEC Certificate No. U6 18 01 84117 051
	Declarations of conformity EU Declaration of Conformity 3537796
	Declarations of conformity Attestation of Conformity No. N8A 18 01 84117 055
	Declarations of conformity Attestation of Conformity No. E8A 18 01 84117 050
	Declarations of conformity OT 24V P DIMP CE 3537796 05 210921
	Product Datasheet Datasheet OT 40220-24024 P
	Certificates CCC Certificate No. 2018011002043864
	Product Datasheet Datasheet OT 60220-24024 P
	Product Datasheet Datasheet OT 100220-24024 P
	Certificates CCC Certificate No. 2018011002043871
	Certificates CB Test Certificate No. SG PSB-LE-00906

## Product family datasheet

	Certificates ENEC Certificate No. U6 18 01 84117 048
	Declarations of conformity Attestation of Conformity No. N8A 18 01 84117 054
	Declarations of conformity Attestation of Conformity No. E8A 18 01 84117 049
	Product Datasheet Datasheet OT 130220-24024 P
	Product Datasheet Datasheet OT 250220-24024 P
	CAD data 3-dim OT 250 220-240 24 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
4052899545922	OT 20/220...240/24 P	Shipping carton box 20	334 mm x 277 mm x 186 mm	17.21 dm <sup>3</sup>	7416.00 g
4052899545946	OT 40/220...240/24 P	Shipping carton box 20	334 mm x 310 mm x 194 mm	20.09 dm <sup>3</sup>	9525.00 g
4052899545960	OT 60/220...240/24 P	Shipping carton box 20	334 mm x 310 mm x 194 mm	20.09 dm <sup>3</sup>	9605.00 g
4052899545984	OT 100/220...240/24 P	Shipping carton box 10	384 mm x 324 mm x 134 mm	16.67 dm <sup>3</sup>	8704.00 g
4052899546004	OT 130/220...240/24 P	Shipping carton box 10	439 mm x 299 mm x 126 mm	16.54 dm <sup>3</sup>	10590.00 g
4052899546028	OT 250/220...240/24 P	Shipping carton box 10	459 mm x 344 mm x 144 mm	22.74 dm <sup>3</sup>	14752.00 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.

## Product family datasheet

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### Disclaimer

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