

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 electronical 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 λ	ECG efficiency	Inrush current
OT 20/220...240/24 P	20 W	0...60 Hz	220...240 V	4.1 W	0.95	83 %	20 A
OT 40/220...240/24 P	40 W	0...60 Hz	220...240 V	4.0 W	0.95	85 %	20 A
OT 60/220...240/24 P	60 W	0...60 Hz	220...240 V	8.9 W	0.95	87 %	30 A
OT 100/220...240/24 P	100 W	0...60 Hz	220...240 V	11.8 W	0.95	90 %	60 A
OT 130/220...240/24 P	130 W	0...60 Hz	220...240 V	14.7 W	0.95	90.5 %	60 A
OTe 120/220...240/24 E	120 W ²⁾	50...60 Hz	220...240 V	15.0 W ⁴⁾	0.95 ⁵⁾	90 % ⁶⁾	70 A ⁷⁾
OT 250/220...240/24 P	250 W	0...60 Hz	220...240 V	21.7 W	0.95	92 %	75 A

Product description	Galvanic isolation primary/secondary	Nominal output voltage	Input voltage DC	Input voltage AC	Nominal current
OT 20/220...240/24 P	3 kV	24.2 V	176...250 V	198...264 V	
OT 40/220...240/24 P	3 kV	24.2 V	176...250 V	198...264 V	
OT 60/220...240/24 P	3 kV	24.2 V	176...250 V	198...264 V	
OT 100/220...240/24 P	3 kV	24.2 V	176...250 V	198...264 V	
OT 130/220...240/24 P	3 kV	24.2 V	176...250 V	198...264 V	
OTe 120/220...240/24 E	3.75 kV ⁸⁾	24 V ⁹⁾		198...264 V ¹⁰⁾	0.60 A ³⁾
OT 250/220...240/24 P	3 kV	24.2 V	176...250 V	198...264 V	

Product description	Dimensions & weight					Temperatures & operating conditions
	Length	Width	Height	Mounting hole spacing, length	Product weight	Ambient temperature range
OT 20/220...240/24 P	178.0 mm	43.0 mm	25.0 mm	169.0 mm	315.00 g	-30...+55 °C
OT 40/220...240/24 P	208.0 mm	43.0 mm	26.0 mm	199.0 mm	416.00 g	-30...+55 °C
OT 60/220...240/24 P	208.0 mm	43.0 mm	26.0 mm	199.0 mm	420.00 g	-30...+50 °C
OT 100/220...240/24 P	240.0 mm	50.0 mm	34.0 mm	227.0 mm	765.00 g	-30...+55 °C
OT 130/220...240/24 P	220.0 mm	63.0 mm	37.0 mm	207.0 mm	943.00 g	-30...+55 °C
OTe 120/220...240/24 E	258.0 mm	51.0 mm	45.0 mm	241.0 mm	1100.00 g	-10...+50 °C
OT 250/220...240/24 P	265.0 mm	68.0 mm	40.0 mm	250.0 mm	1340.00 g	-30...+55 °C

Product description	Permitted rel. humidity during operation	Capabilities			
		Suitable for fixtures with prot. class	Overheating protection	Overload protection	Short-circuit protection
OT 20/220...240/24 P	5...85 % ¹⁾	II	Yes	Yes	Yes
OT 40/220...240/24 P	5...85 % ¹⁾	II	Yes	Yes	Yes

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 60/220...240/24 P	5...85 % ¹⁾	II	Yes	Yes	Yes
OT 100/220...240/24 P	5...85 % ¹⁾	I	Yes	Yes	Yes
OT 130/220...240/24 P	5...85 % ¹⁾	I	Yes	Yes	Yes
OTe 120/220...240/24 E	5...85 % ¹⁾	I	Automatic reversible	Automatic reversible	Automatic reversible
OT 250/220...240/24 P	5...85 % ¹⁾	I	Yes	Yes	Yes

Product description	No-load proof	Dimmable	Number of channels	Certificates & standards
				Type of protection
OT 20/220...240/24 P	Yes	No	1	IP66
OT 40/220...240/24 P	Yes	No	1	IP66
OT 60/220...240/24 P	Yes	No	1	IP66
OT 100/220...240/24 P	Yes	No	1	IP66/IP67
OT 130/220...240/24 P	Yes	No	1	IP66/IP67
OTe 120/220...240/24 E	Yes	No	1	IP64
OT 250/220...240/24 P	Yes	No	1	IP66/IP67

Product description	Standards	Approval marks – approval	Logistical data
			Commodity code
OT 20/220...240/24 P	Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384	ENEC / RCM / CCC / EAC / CE	850440829000
OT 40/220...240/24 P	Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384	ENEC / RCM / CCC / EAC / CE	850440829000
OT 60/220...240/24 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	ENEC / RCM / CCC / EAC / CE	850440829000
OT 100/220...240/24 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	ENEC / RCM / CCC / EAC / CE	850440829000

Product family datasheet

Product description	Standards	Approval marks – approval	Logistical data
			Commodity code
OT 130/220...240/24 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	ENEC / RCM / CCC / EAC / CE	850440829000
OTe 120/220...240/24 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
OT 250/220...240/24 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	ENEC / RCM / CCC / EAC / CE	850440829000

1) Maximum 56 days/year at 85 %

2) Partial load 12...120 W

3) At 230 V

4) Maximum

5) Full load at 230 V

6) At full load and 230 V

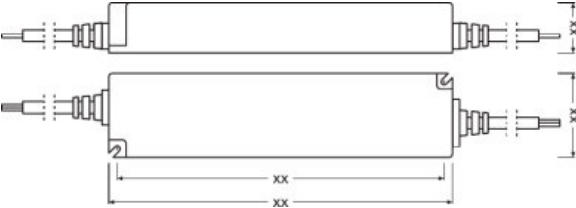
7) At 300 µs

8) SELV-equivalent

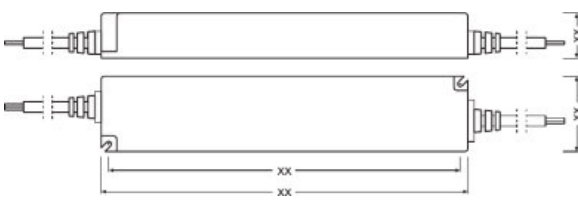
9) ±5 %

10) Permitted voltage range

Product family datasheet



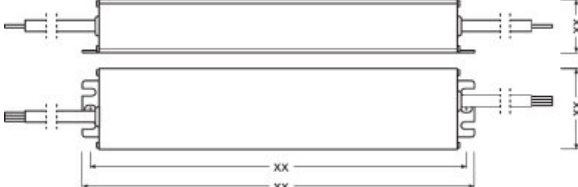
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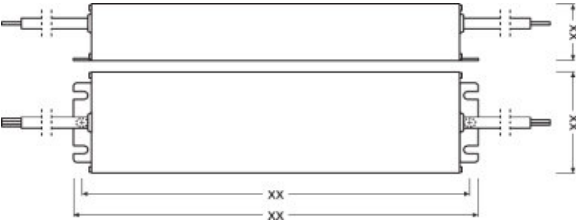
OT 40220-24024 P



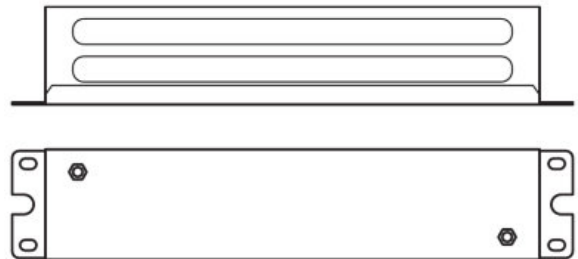
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OT 100220-24024 P

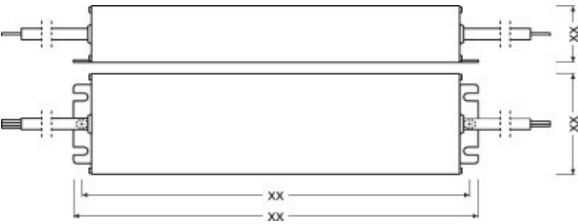


OT 130220-24024 P



330217_OTe 120220-24024 E

Product family datasheet



OT 250220-24024 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

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

Product family datasheet

	Declarations of conformity EU Declaration of Conformity OT 24V P_DIMP
	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
	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
	User instruction Instruction Sheet fo OTe 120220-24024 E
	Product Datasheet Product datasheet of OTe 120220-24024 E
	Declarations of conformity EU Declaration of Conformity 3565780
	Product Datasheet Datasheet OT 250220-24024 P

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
4052899545922	OT 20/220...240/24 P	Shipping carton box 20	334 mm x 277 mm x 186 mm	17.21 dm ³	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 ³	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 ³	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 ³	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 ³	10590.00 g
4008321645715	OTe 120/220...240/24 E	Shipping carton box 10	408 mm x 302 mm x 141 mm	17.37 dm ³	11959.00 g
4052899546028	OT 250/220...240/24 P	Shipping carton box 10	459 mm x 344 mm x 144 mm	22.74 dm ³	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.

Disclaimer

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