

CV Power supplies 24 V with 1...10 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)
- Dimmable via fully isolated 1...10 V interface

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
- Dimming range: 1...100 %

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 input voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ	ECG efficiency
OT 20/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	83 %
OT 40/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	85 %
OT 60/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	87 %
OT 100/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	90 %
OT 130/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	90.5 %
OT 250/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	92 %

Product description	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L-N)
OT 20/220...240/24 DIM P	3.4 W	20 A	49	77	120	4 kV
OT 40/220...240/24 DIM P	6.0 W	20 A	36	57	87	4 kV
OT 60/220...240/24 DIM P	7.8 W	30 A	21	34	53	4 kV
OT 100/220...240/24 DIM P	10 W	60 A	10	16	26	4 kV
OT 130/220...240/24 DIM P	13.3 W	60 A	8	13	20	4 kV
OT 250/220...240/24 DIM P	20 W	75 A	3	8	13	4 kV

Product description	Nominal output voltage	U-OUT (working voltage)	Nominal output power	Galvanic isolation	Galvanic isolation primary/secondary
OT 20/220...240/24 DIM P	24.2 V	30 V	20 W	SELV	3 kV
OT 40/220...240/24 DIM P	24.2 V	30 V	40 W	SELV	3 kV
OT 60/220...240/24 DIM P	24.2 V	30 V	60 W	SELV	3 kV
OT 100/220...240/24 DIM P	24.2 V	30 V	100 W	SELV	3 kV
OT 130/220...240/24 DIM P	24.2 V	30 V	130 W	SELV	3 kV
OT 250/220...240/24 DIM P	24.2 V	30 V	250 W	SELV	3 kV

Product description	Input voltage DC	Surge capability (L/N-Ground)	Dimensions & weight		
			Mounting hole spacing, length	Product weight	Cable cross-section, input side
OT 20/220...240/24 DIM P	176...276 V		169.0 mm	315.00 g	1.0 mm ²
OT 40/220...240/24 DIM P	176...276 V		199.0 mm	416.00 g	1.0 mm ²
OT 60/220...240/24 DIM P	176...276 V		199.0 mm	420.00 g	1.0 mm ²
OT 100/220...240/24 DIM P	176...276 V	6 kV	227.0 mm	765.00 g	1.0 mm ²
OT 130/220...240/24 DIM P	176...276 V	6 kV	207.0 mm	943.00 g	1.0 mm ²
OT 250/220...240/24 DIM P	176...276 V	6 kV	250.0 mm	1340.00 g	1.0 mm ²

Product family datasheet

Product description	Cable cross-section, output side	Wire preparation length, input side	Wire preparation length, output side	Cable/wire length, control input	Cable/wire length, input side
OT 20/220...240/24 DIM P	1.0 mm ²	90 mm	90 mm	320 mm	300 mm
OT 40/220...240/24 DIM P	1.0 mm ²	90 mm	90 mm	320 mm	300 mm
OT 60/220...240/24 DIM P	1.0 mm ²	90 mm	90 mm	320 mm	300 mm
OT 100/220...240/24 DIM P	1.0 mm ²	90 mm	90 mm	320 mm	300 mm
OT 130/220...240/24 DIM P	1.0 mm ²	90 mm	90 mm	320 mm	300 mm
OT 250/220...240/24 DIM P	1.0 mm ²	90 mm	90 mm	320 mm	300 mm

Product description	Cable/wire length, output side	Height	Length	Width	Colors & materials
					Casing material
OT 20/220...240/24 DIM P	300 mm	25.0 mm	178.0 mm	43.0 mm	Plastic
OT 40/220...240/24 DIM P	300 mm	26.0 mm	208.0 mm	43.0 mm	Plastic
OT 60/220...240/24 DIM P	300 mm	26.0 mm	208.0 mm	43.0 mm	Plastic
OT 100/220...240/24 DIM P	300 mm	34.0 mm	240.0 mm	50.0 mm	Metal
OT 130/220...240/24 DIM P	300 mm	37.0 mm	220.0 mm	63.0 mm	Metal
OT 250/220...240/24 DIM P	300 mm	40.0 mm	265.0 mm	68.0 mm	Metal

Product description	Temperatures & operating conditions			
	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
OT 20/220...240/24 DIM P	-30...+55 °C	85 °C	110 °C	-40...+85 °C
OT 40/220...240/24 DIM P	-30...+55 °C	90 °C	110 °C	-40...+85 °C
OT 60/220...240/24 DIM P	-30...+55 °C	90 °C	110 °C	-40...+85 °C
OT 100/220...240/24 DIM P	-30...+55 °C	80 °C	110 °C	-40...+85 °C
OT 130/220...240/24 DIM P	-30...+55 °C	80 °C	110 °C	-40...+85 °C
OT 250/220...240/24 DIM P	-30...+55 °C	85 °C	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation	Lifespan	Capabilities		
		ECG lifetime	Dimmable	Dimming interface	Dimming range
OT 20/220...240/24 DIM P	5...85 % ¹⁾	50000 h	Yes	1...10 V	1...100 %
OT 40/220...240/24 DIM P	5...85 % ¹⁾	50000 h	Yes	1...10 V	1...100 %
OT 60/220...240/24 DIM P	5...85 % ¹⁾	50000 h	Yes	1...10 V	1...100 %
OT 100/220...240/24 DIM P	5...85 % ¹⁾	50000 h	Yes	1...10 V	1...100 %
OT 130/220...240/24 DIM P	5...85 % ¹⁾	50000 h	Yes	1...10 V	1...100 %
OT 250/220...240/24 DIM P	5...85 % ¹⁾	50000 h	Yes	1...10 V	1...100 %

Product family datasheet

Product description	Dimming method	Overheating protection	Overload protection
OT 20/220...240/24 DIM P	Pulse Width Modulation	Yes	Yes
OT 40/220...240/24 DIM P	Pulse Width Modulation	Yes	Yes
OT 60/220...240/24 DIM P	Pulse Width Modulation	Yes	Yes
OT 100/220...240/24 DIM P	Pulse Width Modulation	Yes	Yes
OT 130/220...240/24 DIM P	Pulse Width Modulation	Yes	Yes
OT 250/220...240/24 DIM P	Pulse Width Modulation	Yes	Yes

Product description	Short-circuit protection	No-load proof	Suitable for fixtures with prot. class	Type of connection, output side
OT 20/220...240/24 DIM P	Yes	Yes	II	Cables
OT 40/220...240/24 DIM P	Yes	Yes	II	Cables
OT 60/220...240/24 DIM P	Yes	Yes	II	Fixed connection (terminal)
OT 100/220...240/24 DIM P	Yes	Yes	I	Cables
OT 130/220...240/24 DIM P	Yes	Yes	I	Cables
OT 250/220...240/24 DIM P	Yes	Yes	I	Fixed connection (terminal)

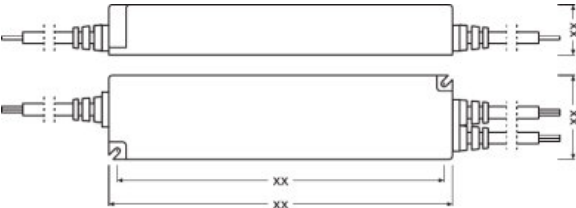
		Certificates & standards		
Product description	Number of channels	Approval marks – approval	Standards	Protection class
OT 20/220...240/24 DIM P	1	ENEC / RCM / CCC / EAC	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384	II
OT 40/220...240/24 DIM P	1	ENEC / RCM / CCC / EAC	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	II
OT 60/220...240/24 DIM P	1	ENEC / RCM / CCC / EAC	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	II

Product family datasheet

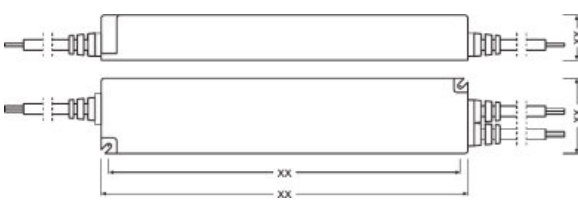
Product description	Number of channels	Certificates & standards		
		Approval marks – approval	Standards	Protection class
OT 100/220...240/24 DIM P	1	ENEC / RCM / CCC / EAC	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384	I
OT 130/220...240/24 DIM P	1	ENEC / RCM / CCC / EAC	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
OT 250/220...240/24 DIM P	1	ENEC / RCM / CCC / EAC	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

Product description	Type of protection	Logistical data	
		Commodity code	
OT 20/220...240/24 DIM P	IP66	850440829000	
OT 40/220...240/24 DIM P	IP66	850440829000	
OT 60/220...240/24 DIM P	IP66	850440829000	
OT 100/220...240/24 DIM P	IP66/IP67	850440829000	
OT 130/220...240/24 DIM P	IP66/IP67	850440829000	
OT 250/220...240/24 DIM P	IP66/IP67	850440829000	

¹⁾ Maximum 56 days/year at 85 %



OT 20220-24024 DIM P



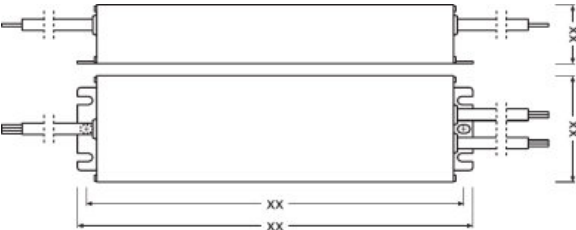
OT 40220-24024 DIM P



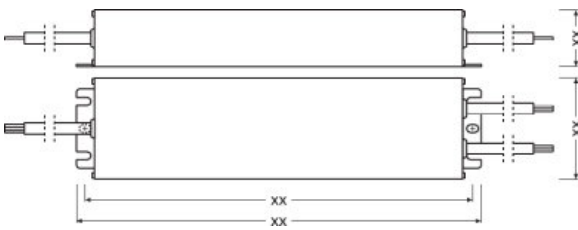
OT 60220-24024 DIM P



OT 100220-24024 DIM P



OT 130220-24024 DIM P



OT 250220-24024 DIM 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
	Addon Technical Information Dimming table for OT (EN)
	Product Datasheet Datasheet OT 20220-24024 DIM 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 EU Declaration of Conformity OT 24V P_DIMP
	Product Datasheet Datasheet OT 40220-24024 DIM P
	Certificates CCC Certificate No. 2018011002043864
	Product Datasheet Datasheet OT 60220-24024 DIM P
	Product Datasheet Datasheet OT 100220-24024 DIM P
	Certificates CCC Certificate No. 2018011002043871

Product family datasheet

	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 DIM P
	Product Datasheet Datasheet OT 250220-24024 DIM 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.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899545809	OT 20/220...240/24 DIM P	Shipping carton box 20	334 mm x 277 mm x 186 mm	17.21 dm ³	8116.00 g
4052899545823	OT 40/220...240/24 DIM P	Shipping carton box 20	334 mm x 310 mm x 194 mm	20.09 dm ³	9965.00 g
4052899545847	OT 60/220...240/24 DIM P	Shipping carton box 20	334 mm x 310 mm x 194 mm	20.09 dm ³	10005.00 g
4052899545861	OT 100/220...240/24 DIM P	Shipping carton box 10	384 mm x 324 mm x 134 mm	16.67 dm ³	8884.00 g
4052899545885	OT 130/220...240/24 DIM P	Shipping carton box 10	439 mm x 299 mm x 126 mm	16.54 dm ³	10590.00 g
4052899545908	OT 250/220...240/24 DIM 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.