

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 electrical 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	Efficiency in full-load
OT 20/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	83 % ¹⁾
OT 40/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	85 % ¹⁾
OT 60/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	86 % ¹⁾
OT 100/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	90 % ¹⁾
OT 130/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	90.5 % ¹⁾
OT 250/220...240/24 DIM P	220...240 V	0...60 Hz	198...264 V	< 15 %	0.95	92 % ¹⁾

Product description	Device power loss	Standby power	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)
OT 20/220...240/24 DIM P	3.4 W	0.50 W ¹⁾	20 A	49	77
OT 40/220...240/24 DIM P	6.0 W	0.50 W ¹⁾	20 A	36	57
OT 60/220...240/24 DIM P	7.8 W	0.50 W ¹⁾	30 A	21	34
OT 100/220...240/24 DIM P	10 W	0.50 W ¹⁾	60 A	10	16
OT 130/220...240/24 DIM P	13.3 W	0.50 W ¹⁾	60 A	8	13
OT 250/220...240/24 DIM P	20 W	0.50 W ¹⁾	75 A	3	8

Product description	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	Nominal output power
OT 20/220...240/24 DIM P	120	4 kV	24.2 V	30 V	20 W
OT 40/220...240/24 DIM P	87	4 kV	24.2 V	30 V	40 W
OT 60/220...240/24 DIM P	53	4 kV	24.2 V	30 V	60 W
OT 100/220...240/24 DIM P	26	4 kV	24.2 V	30 V	100 W
OT 130/220...240/24 DIM P	20	4 kV	24.2 V	30 V	130 W
OT 250/220...240/24 DIM P	13	4 kV	24.2 V	30 V	250 W

Product description	Maximum output power	Galvanic isolation	Galvanic isolation primary/secondary	Input voltage DC	Surge capability (L/N-Ground)
OT 20/220...240/24 DIM P	20 W ²⁾	SELV	3 kV	176...276 V	
OT 40/220...240/24 DIM P	40 W ²⁾	SELV	3 kV	176...276 V	
OT 60/220...240/24 DIM P	60 W ²⁾	SELV	3 kV	176...276 V	
OT 100/220...240/24 DIM P	100 W ²⁾	SELV	3 kV	176...276 V	6 kV
OT 130/220...240/24 DIM P	130 W ²⁾	SELV	3 kV	176...276 V	6 kV
OT 250/220...240/24 DIM P	250 W ²⁾	SELV	3 kV	176...276 V	6 kV

Product family datasheet

Product description	Dimensions & weight null				
	Mounting hole spacing, length	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
OT 20/220...240/24 DIM P	169.0 mm	315.00 g	1.0 mm ²	1.0 mm ²	90 mm
OT 40/220...240/24 DIM P	199.0 mm	416.00 g	1.0 mm ²	1.0 mm ²	90 mm
OT 60/220...240/24 DIM P	199.0 mm	420.00 g	1.0 mm ²	1.0 mm ²	90 mm
OT 100/220...240/24 DIM P	227.0 mm	765.00 g	1.0 mm ²	1.0 mm ²	90 mm
OT 130/220...240/24 DIM P	207.0 mm	943.00 g	1.0 mm ²	1.0 mm ²	90 mm
OT 250/220...240/24 DIM P	250.0 mm	1340.00 g	1.0 mm ²	1.0 mm ²	90 mm

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

Product description	Height	Width	Length	Colors & materials null	Temperatures & operating conditions null	
				Casing material	Ambient temperature range	Maximum temperature at tc test point
OT 20/220...240/24 DIM P	25.0 mm	43.0 mm	178.0 mm	Plastic	-30...+55 °C	85 °C
OT 40/220...240/24 DIM P	26.0 mm	43.0 mm	208.0 mm	Plastic	-30...+55 °C	90 °C
OT 60/220...240/24 DIM P	26.0 mm	43.0 mm	208.0 mm	Plastic	-30...+55 °C	90 °C
OT 100/220...240/24 DIM P	34.0 mm	50.0 mm	240.0 mm	Metal	-30...+55 °C	80 °C
OT 130/220...240/24 DIM P	37.0 mm	63.0 mm	220.0 mm	Metal	-30...+55 °C	80 °C
OT 250/220...240/24 DIM P	40.0 mm	68.0 mm	265.0 mm	Metal	-30...+55 °C	85 °C

Product description	Max.housing temperature in case of fault	Temperature range at storage	Permitted rel. humidity during operation	Lifespan null	Capabilities null
				ECG lifetime	Dimmable
OT 20/220...240/24 DIM P	110 °C	-40...+85 °C	5...85 % ³⁾	50000 h	Yes
OT 40/220...240/24 DIM P	110 °C	-40...+85 °C	5...85 % ³⁾	50000 h	Yes
OT 60/220...240/24 DIM P	110 °C	-40...+85 °C	5...85 % ³⁾	50000 h	Yes
OT 100/220...240/24 DIM P	110 °C	-40...+85 °C	5...85 % ³⁾	50000 h	Yes
OT 130/220...240/24 DIM P	110 °C	-40...+85 °C	5...85 % ³⁾	50000 h	Yes
OT 250/220...240/24 DIM P	110 °C	-40...+85 °C	5...85 % ³⁾	50000 h	Yes

Product family datasheet

Product description	Dimming interface	Dimming range	Dimming method	Overheating protection
OT 20/220...240/24 DIM P	1...10 V	1...100 %	Pulse Width Modulation	Yes
OT 40/220...240/24 DIM P	1...10 V	1...100 %	Pulse Width Modulation	Yes
OT 60/220...240/24 DIM P	1...10 V	1...100 %	Pulse Width Modulation	Yes
OT 100/220...240/24 DIM P	1...10 V	1...100 %	Pulse Width Modulation	Yes
OT 130/220...240/24 DIM P	1...10 V	1...100 %	Pulse Width Modulation	Yes
OT 250/220...240/24 DIM P	1...10 V	1...100 %	Pulse Width Modulation	Yes

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

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

Product description	Number of channels	Certificates & standards		
		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

Product family datasheet

		Certificates & standards null		
Product description	Number of channels	Approval marks – approval	Standards	Protection class
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
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 family datasheet

Product description	Type of protection	Logistical data	Environmental information
		Commodity code	Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)
		Commodity code	Date of Declaration
OT 20/220...240/24 DIM P	IP66	850440829000	14-01-2022
OT 40/220...240/24 DIM P	IP66	850440829000	14-01-2022
OT 60/220...240/24 DIM P	IP66	850440829000	14-01-2022
OT 100/220...240/24 DIM P	IP66/IP67	850440829000	23-12-2021
OT 130/220...240/24 DIM P	IP66/IP67	850440829000	23-12-2021
OT 250/220...240/24 DIM P	IP66/IP67	850440829000	23-12-2021

Product description	Primary Article Identifier	Candidate List Substance 1	Declaration No. in SCIP database	CAS No. of substance 1
OT 20/220...240/24 DIM P	4052899545809	No declarable substances contained	No declarable substances contained	
OT 40/220...240/24 DIM P	4052899545823		In work	
OT 60/220...240/24 DIM P	4052899545847		In work	
OT 100/220...240/24 DIM P	4052899545861	Lead	034c1953-a758-46a2-8f53-88c902aa85b4	7439-92-1
OT 130/220...240/24 DIM P	4052899545885	Lead	5523acbe-aef5-4c2c-83e2-6e8df8522703	7439-92-1
OT 250/220...240/24 DIM P	4052899545908	Lead	89c62faa-3f20-42e8-a878-d3aca8b7d609	7439-92-1

Product description	Safe Use Instruction
OT 20/220...240/24 DIM P	
OT 40/220...240/24 DIM P	
OT 60/220...240/24 DIM P	
OT 100/220...240/24 DIM P	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT 130/220...240/24 DIM P	The identification of the Candidate List substance is sufficient to allow safe use of the article.
OT 250/220...240/24 DIM P	The identification of the Candidate List substance is sufficient to allow safe use of the article.

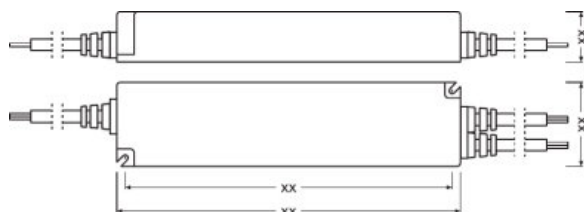
Product family datasheet

1) at 230 V, 50 Hz

2) at steady state

3) Maximum 56 days/year at 85 %

Product family datasheet



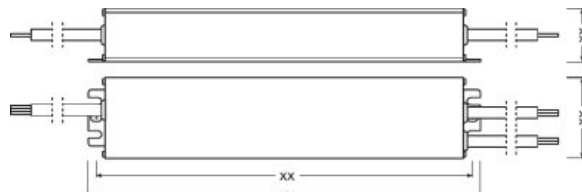
OT 20220-24024 DIM P



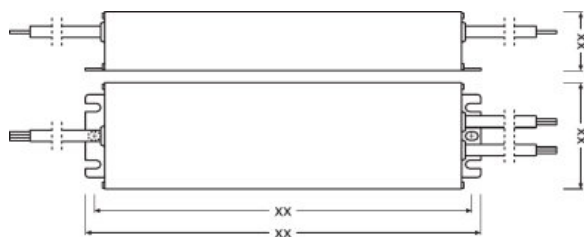
OT 40220-24024 DIM P



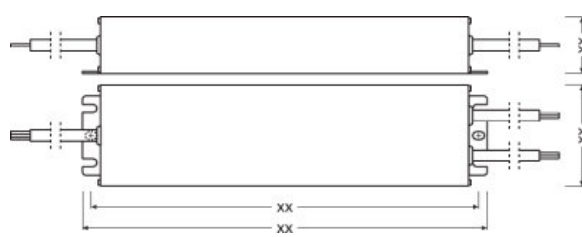
OT 60220-24024 DIM P



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 Certificate of NSW27873-3 Mod OT 24V P G2 DIM
	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
	CAD data 3-dim OT 20 220-240 24 DIM P-3D stp file
	Product Datasheet Datasheet OT 40220-24024 DIM P
	Certificates CCC Certificate No. 2018011002043864
	Product Datasheet Datasheet OT 60220-24024 DIM P

Product family datasheet

	Product Datasheet Datasheet OT 100220-24024 DIM 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
	CAD data 3-dim OT 100 220-240 24 DIM P - 3D stp file
	Product Datasheet Datasheet OT 130220-24024 DIM P
	CAD data 3-dim OT 130 220-240 24 DIM P - 3D stp file
	Product Datasheet Datasheet OT 250220-24024 DIM P
	CAD data 3-dim OT 250 220-240 24 DIM 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
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

Product family datasheet

Logistical Data

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.