

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			Dimensions & weight	
	Efficiency in full-load	Standby power	Maximum output power	Mounting hole spacing, length	Product weight
OT 20/220...240/24 DIM P	83 % ¹⁾	0.50 W ¹⁾	20 W	169.0 mm	315.00 g
OT 40/220...240/24 DIM P	85 % ¹⁾	0.50 W ¹⁾	40 W	199.0 mm	416.00 g
OT 60/220...240/24 DIM P		0.50 W		199.0 mm	420.00 g
OT 100/220...240/24 DIM P	90 % ¹⁾	0.50 W ¹⁾	100 W	227.0 mm	765.00 g
OT 130/220...240/24 DIM P	90.5 % ¹⁾	0.50 W ¹⁾	130 W	207.0 mm	943.00 g
OT 250/220...240/24 DIM P	92 % ¹⁾	0.50 W ¹⁾	250 W	250.0 mm	1340.00 g

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

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

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

Product family datasheet

Product description	Temperature range at storage	Permitted rel. humidity during operation	Lifespan	Capabilities
			ECG lifetime	Intended for no-load operation
OT 20/220...240/24 DIM P	-40...+85 °C	5...85 % ²⁾	50000 h	No
OT 40/220...240/24 DIM P	-40...+85 °C	5...85 % ²⁾	50000 h	No
OT 60/220...240/24 DIM P	-40...+85 °C	5...85 % ²⁾	50000 h	
OT 100/220...240/24 DIM P	-40...+85 °C	5...85 % ²⁾	50000 h	No
OT 130/220...240/24 DIM P	-40...+85 °C	5...85 % ²⁾	50000 h	No
OT 250/220...240/24 DIM P	-40...+85 °C	5...85 % ²⁾	50000 h	No

Product description	Certificates & standards			
	Approval marks – approval	Standards	Protection class	Type of protection
OT 20/220...240/24 DIM P	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	IP66
OT 40/220...240/24 DIM P	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	IP66
OT 60/220...240/24 DIM P	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	IP66
OT 100/220...240/24 DIM P	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	IP66/IP67
OT 130/220...240/24 DIM P	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	IP66/IP67

Product family datasheet

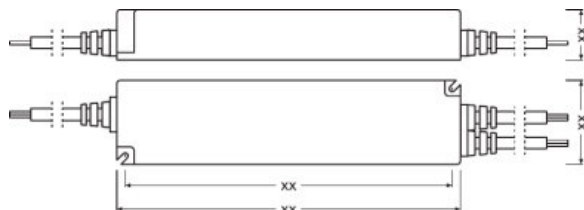
Product description	Certificates & standards			
	Approval marks – approval	Standards	Protection class	Type of protection
OT 250/220...240/24 DIM P	ENEC / RCM / CCC / EAC	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384	I	IP66/IP67

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

¹⁾ at 230 V, 50 Hz

²⁾ Maximum 56 days/year at 85 %

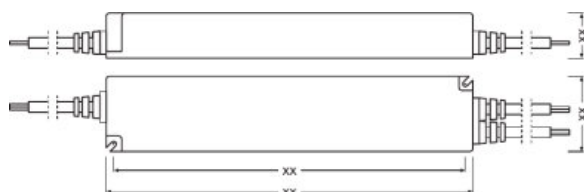
Product family datasheet



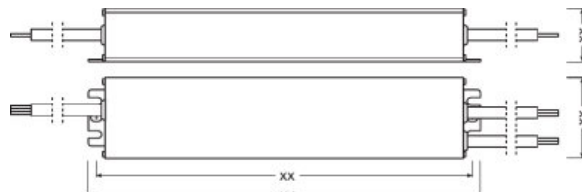
OT 20220-24024 DIM P



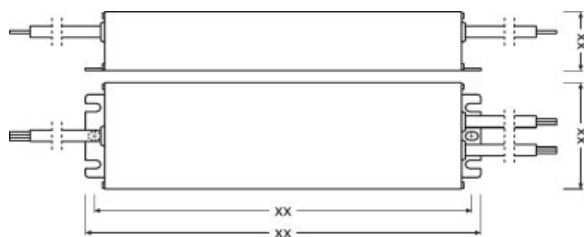
OT 40220-24024 DIM P



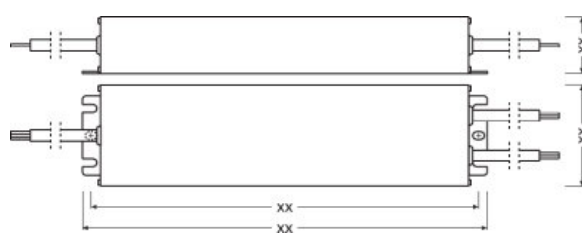
OT 60220-24024 DIM P



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 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.

Product family datasheet

Disclaimer

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