

OT 120/220...240/24 DIM P

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

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V ¹⁾
Total harmonic distortion	< 20 %
Power factor λ	090/095 ²⁾
Device power loss	15.0 W ³⁾
Inrush current	60 A ⁴⁾
Max. ECG no. on circuit breaker 10 A (B)	6
Max. ECG no. on circuit breaker 16 A (B)	10
Max. ECG no. on circuit breaker 25 A (B)	17
Surge capability (L/N-Ground)	6 kV
Surge capability (L-N)	3 kV
Nominal output voltage	24 V ⁵⁾
U-OUT (working voltage)	24 V
Nominal output power	120 W ⁶⁾
Galvanic isolation	SELV
Galvanic isolation primary/secondary	3.75 kV ⁷⁾

- 1) Permitted voltage range
2) Minimum/Full load at 230 V/Half load at 230 V
3) Maximum
4) Maximum / At 250 μ s
5) +1.0/-0.5 V
6) Partial load 0...120 W
7) SELV

Dimensions & weight



Mounting hole spacing, length	241.0 mm
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Product datasheet

Mounting hole spacing, width	15.0 mm
Product weight	110000 g
Cable cross-section, input side	1.0 mm ² ¹⁾
Cable cross-section, output side	1.5 mm ² ¹⁾
Wire preparation length, input side	10...11 mm
Wire preparation length, output side	10...11 mm
Cable/wire length, control input	300 mm
Cable/wire length, input side	300 mm
Cable/wire length, output side	300 mm
Length	2500 mm
Width	600 mm
Height	390 mm

¹⁾ Flexible

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Ambient temperature range	-25...+55 °C
Maximum temperature at tc test point	80 °C ¹⁾
Max.housing temperature in case of fault	100 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ²⁾

¹⁾ Maximum at the Tc-point

²⁾ Non-condensing

Lifespan

ECG lifetime	50000 h ¹⁾
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¹⁾ At $T_{case} = 70^{\circ}C$ at T_c point / 10% failure rate

Additional product data

Successor EAN	4052899545885
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Capabilities

Dimmable	Yes
Dimming interface	1...10 V ¹⁾
Dimming range	3...100 % ²⁾
Dimming method	Pulse Width Modulation
Overheating protection	Automatic reversible
Overload protection	Automatic reversible

Product datasheet

Short-circuit protection	Automatic reversible
No-load proof	Yes
Suitable for fixtures with prot. class	I
Type of connection, output side	Wires
Number of channels	1

1) Do not switch off by 1...10 V interface to avoid infringing the ErP regulations

2) Depends on the lamp type (please see www.osram.com/dim)

Certificates & standards

Approval marks – approval	CE / CB / RCM / EAC / ENEC 18 / BIS
Standards	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
Protection class	I
Type of protection	IP67

Logistical data

Commodity code	850440829000
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	11-10-2022
Primary Article Identifier	4008321981691
Declaration No. in SCIP database	In work

Download Data

File	
	Addon Technical Information 728639_Dimming table for OT (EN)
	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)
	Brochures 730792_Light is universal - Easy installation of efficient complete systems (DE)
	Brochures 730791_Light is universal - Easy installation of efficient complete systems (EN)
	Brochures 493514_24V OPTOTRONIC outdoor drivers (GB)
	Certificates 546125_ENEC certificate OT 120 220-240 24 DIM P

Product datasheet

	Declarations of conformity OT 24V P DIMP CE 3537796 09 080823
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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
4008321981691	OT 120/220...240/24 DIM P	Shipping carton box 10	560 mm x 400 mm x 155 mm	34.72 dm ³	13400.00 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.