

OT 20/220...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

Product datasheet

Technical data

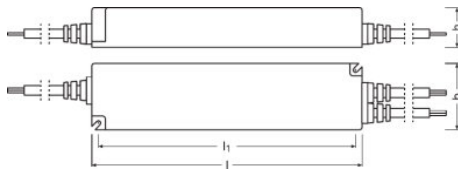
Electrical data

Nominal input voltage	220...240 V
Mains frequency	0...60 Hz
Input voltage AC	198...264 V
Total harmonic distortion	< 15 %
Power factor λ	0.95
Efficiency in full-load	83 % ¹⁾
Device power loss	3.4 W
Standby power	0.50 W ¹⁾
Inrush current	20 A
Max. ECG no. on circuit breaker 10 A (B)	49
Max. ECG no. on circuit breaker 16 A (B)	77
Max. ECG no. on circuit breaker 25 A (B)	120
Surge capability (L-N)	4 kV
Nominal output voltage	24.2 V
U-OUT (working voltage)	30 V
Nominal output power	20 W
Maximum output power	20 W ²⁾
Galvanic isolation	SELV
Galvanic isolation primary/secondary	3 kV
Input voltage DC	176...276 V

¹⁾ at 230 V, 50 Hz

²⁾ at steady state

Dimensions & weight



Mounting hole spacing, length	169.0 mm
Product weight	315.00 g

Product datasheet

Cable cross-section, input side	1.0 mm ²
Cable cross-section, output side	1.0 mm ²
Wire preparation length, input side	90 mm
Wire preparation length, output side	90 mm
Cable/wire length, control input	320 mm
Cable/wire length, input side	300 mm
Cable/wire length, output side	300 mm
Length	178.0 mm
Width	43.0 mm
Height	25.0 mm

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-30...+55 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h
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Capabilities

Dimmable	Yes
Dimming interface	1...10 V
Dimming range	1...100 %
Dimming method	Pulse Width Modulation
Overheating protection	Yes
Overload protection	Yes
Short-circuit protection	Yes
No-load proof	Yes
Intended for no-load operation	No
Suitable for fixtures with prot. class	II
Type of connection, output side	Cables
Number of channels	1

Product datasheet

Certificates & standards

Approval marks – approval	ENEC / RCM / CCC / EAC
Standards	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
Protection class	II
Type of protection	IP66











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	14-01-2022
Primary Article Identifier	4052899545809
Candidate List Substance 1	No declarable substances contained
Declaration No. in SCIP database	No declarable substances contained

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

Product datasheet



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

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

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.