

OT 250/220...240/24 DIM P

CV Power supplies 24 V with 1...10 V



Areas of application

- Facades, public squares, cruise ships
- Signage
- Suitable for indoor and outdoor installations

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 %

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

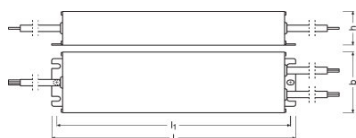
Product datasheet

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
ECG efficiency	92 %
Device power loss	20 W
Power loss in stand-by mode	<0.5 W
Inrush current	75 A
Max. ECG no. on circuit breaker 10 A (B)	3
Max. ECG no. on circuit breaker 16 A (B)	8
Max. ECG no. on circuit breaker 25 A (B)	13
Surge capability (L/N-Ground)	6 kV
Surge capability (L-N)	4 kV
Nominal output voltage	24.2 V
U-OUT (working voltage)	30 V
Nominal output power	250 W
Galvanic isolation	SELV
Galvanic isolation primary/secondary	3 kV
Input voltage DC	176...276 V

Dimensions & weight



Mounting hole spacing, length	250.0 mm
Product weight	1340.00 g
Cable cross-section, input side	1.0 mm ²
Cable cross-section, output side	1.0 mm ²

Product datasheet

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	265.0 mm
Width	68.0 mm
Height	40.0 mm

Colors & materials

Casing material	Metal
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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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Additional product data

Encapsulated	Yes
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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
Suitable for fixtures with prot. class	I
Type of connection, output side	Fixed connection (terminal)
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	I
Type of protection	IP66/IP67

Logistical data

Commodity code	850440829000
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Download Data

File
 User instruction OPTOTRONIC LED Power Supply
 Addon Technical Information Dimming table for OT (EN)
 Product Datasheet Datasheet OT 250220-24024 DIM P
 Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)
 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 EU Declaration of Conformity 3537796
 Declarations of conformity Attestation of Conformity No. N8A 18 01 84117 054
 Declarations of conformity Attestation of Conformity No. E8A 18 01 84117 049
 Declarations of conformity EU Declaration of Conformity OT 24V P_DIMP

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899545908	OT 250/220...240/24 DIM P	Shipping carton box 10	459 mm x 344 mm x 144 mm	22.74 dm ³	15002.00 g

Product datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
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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.