

PRODUCT DATASHEET

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

OPTOTRONIC | 24 V Constant voltage LED power supplies 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

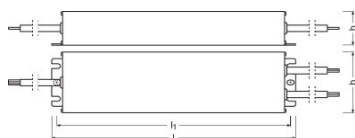
- DC mode functionality
- Type of protection: IP66 and IP67
- Surge protection: up to 4 kV (L-N) / 6 kV (L/N-PE)
- Wide operating temperature range: -30...+55 °C
- Lifetime: up to 50,000 h (temperature at max. t_c)
- Dimmable via fully isolated 1...10 V interface

TECHNICAL DATA

Electrical data

Nominal output power	250 W
Input voltage AC	198...264 V
Mains frequency	0...60 Hz
Nominal output voltage	24.2 V
Power loss in stand-by mode	<0.5 W
Nominal voltage	220...240 V
Device power loss	20 W
Power factor λ	0.95
ECG efficiency	92 %
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
Galvanic isolation primary/secondary	3 kV
Surge capability (L/N-Ground)	6 kV
Surge capability (L-N)	4 kV

Dimensions & weight



Length	265.0 mm
Width	68.0 mm
Height	40.0 mm
Product weight	1340.00 g
Mounting hole spacing, length	250.0 mm
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

Temperatures & operating conditions

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

Lifespan

ECG lifetime	50000 h
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Capabilities

Dimmable	Yes
Suitable for fixtures with prot. class	I
Overheating protection	Yes
Overload protection	Yes
Short-circuit protection	Yes
No-load proof	Yes
Dimming interface	1...10 V







Certificates & standards





Type of protection	IP66/IP67
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
Approval marks – approval	ENEC / RCM / CCC / EAC

Logistical data

Temperature range at storage	-40...85 °C
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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
	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	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.