

## PRODUCT DATASHEET

### OT 100/220...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 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 FEATURES

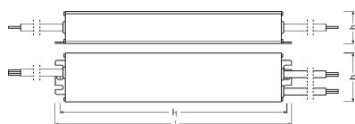
- DC mode functionality
- Type of protection: IP66 and IP67
- Surge protection: up to 4 kV (L-N) / 6 kV (L/N-PE)
- Wide operating temperature range: -30...+55 °C
- Lifetime: up to 50,000 h (temperature at max.  $t_c$ )
- Dimmable via fully isolated 1...10 V interface

**TECHNICAL DATA**

Electrical data

Nominal output power	100 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	10 W
Power factor $\lambda$	0.95
ECG efficiency	90 %
Inrush current	60 A
Max. ECG no. on circuit breaker 10 A (B)	10
Max. ECG no. on circuit breaker 16 A (B)	16
Max. ECG no. on circuit breaker 25 A (B)	26
Galvanic isolation primary/secondary	3 kV
Surge capability (L/N-Ground)	6 kV
Surge capability (L-N)	4 kV

Dimensions & weight



Length	240.0 mm
Width	50.0 mm
Height	34.0 mm
Product weight	765.00 g
Mounting hole spacing, length	227.0 mm
Cable cross-section, input side	1.0 mm <sup>2</sup>
Cable cross-section, output side	1.0 mm <sup>2</sup>
Wire preparation length, input side	90 mm

## Temperatures &amp; operating conditions

Ambient temperature range	-30...+55 °C
Permitted rel. humidity during operation	5...85 %
Maximum temperature at tc test point	80 °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 &amp; standards





Type of protection	IP66
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 100220-24024 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
4052899545861	OT 100/220...240/24 DIM P	Shipping carton box 10	384 mm x 324 mm x 134 mm	16.67 dm <sup>3</sup>	8704.00 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.