

The trusted value of OSRAM Digital Systems continues with Inventronics Global – where experience meets innovation.

## OT 20/220-240/24 DIM P

Optotronic - 24 V 1-10V



### 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

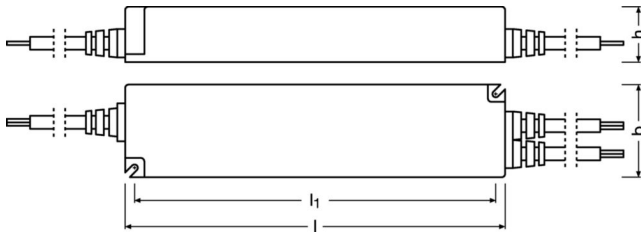
### Electrical data

Nominal input voltage	220...240 V
Mains frequency	0...60 Hz
Input voltage AC	198...264 V
Input voltage DC	176...276 V
Total harmonic distortion	< 15 %
Power factor $\lambda$	0.95
Efficiency in full-load	83 % <sup>1)</sup>
Device power loss	3.4 W
Inrush current	20 A
Max. ECG no. on circuit breaker 10 A (B)	49
Max. ECG no. on circuit breaker 16 A (B)	77
Surge capability (L/N-Ground)	not relevant
Surge capability (L-N)	4 kV
Nominal output voltage	24.2 V
U-OUT (working voltage)	30 V
Output PSTLM	<1
Output SVM	<0.4
Nominal output power	20 W
Maximum output power	20 W <sup>2)</sup>
Galvanic isolation	SELV

1) at 230 V, 50 Hz

2) at steady state

## Dimensions & weight



<b>Length</b>	178.0 mm
<b>Width</b>	43.0 mm
<b>Height</b>	25.0 mm
<b>Mounting hole spacing, length</b>	169.0 mm
<b>Mounting hole spacing, width</b>	not relevant mm
<b>Cable cross-section, input side</b>	1.0 mm <sup>2</sup>
<b>Cable cross-section, output side</b>	1.0 mm <sup>2</sup>
<b>Wire preparation length, input side</b>	90 mm
<b>Wire preparation length, output side</b>	90 mm
<b>Product weight</b>	315.00 g

## Colors & materials

<b>Casing material</b>	Plastic
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## Temperatures & operating conditions

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

1) Maximum 56 days/year at 85 %

## Lifespan

<b>ECG lifetime</b>	50000 h
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## Capabilities

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

## Certificates & standards

Approval marks – approval	ENEC / RCM / CCC / EAC
Standards	EN 61347-1 / EN 61347-2-13 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 61000-3-3 / EN 60598-1 / EN 62384
Type of protection	IP66

## Logistical data

Commodity code	85044083900
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## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	10-10-2025
Primary Article Identifier	4052899545809   6977770438347
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

## 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.

## Download Data

File		
Product Datasheet	PDF	▶ Datasheet OT 20/220-240/24 DIM P
Addon Technical Information	PDF	▶ Dimming table for OT (EN)
Certificates	PDF	▶ CCC Certificate No. 2018011002044637
Certificates	PDF	▶ OT 20-60 ENEC 64142235012802 CERT U6 0125
CAD data 3-dim	Compressed	▶ OT 20 220-240 24 DIM P-3D stp file
Declarations of conformity	PDF	▶ OT 24V P CE 3537796 10 181224
User instruction	PDF	▶ G15130799 OT 20 40 60 100 130 250 24 DIM P

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899545809 OSRAM	OT 20/220-240/24 DIM P	Shipping carton box 20 Pieces	334 x 277 x 186 mm	17.21 dm <sup>3</sup>	370.80 g
6977770438347 INVENTRONICS	OT 20/220-240/24 DIM P	Shipping carton box 20 Pieces	334 x 277 x 186 mm	17.21 dm <sup>3</sup>	370.80 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.