

OT 6/200-240/24 CE

OPTOTRONIC Power supplies 24V



Product family features

- Type of protection: IP20
- Wide operating temperature range: -20...+50 °C
- Lifetime: up to 50,000 h (temperature at max. t_c)

Product family benefits

- Installation in cold and hot environments
- Very stable output power
- High electrical reversible short-circuit, overload, overtemperature protection
- Independent installation possible

Areas of application

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

Technical data

Electrical data

Nominal input voltage	200...240 V
Mains frequency	50...60 Hz
Input voltage AC	180...264 V ¹⁾
Input voltage DC	not relevant
Power factor λ	0.50 ²⁾
Efficiency in full-load	80 % ³⁾
Device power loss	1.5 W ⁴⁾
Inrush current	15 A ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	30
Max. ECG no. on circuit breaker 16 A (B)	48
Surge capability (L/N-Ground)	not relevant
Surge capability (L-N)	1 kV
Nominal output voltage	24 V ⁶⁾
U-OUT (working voltage)	25 V
Nominal output power	6 W ⁷⁾
Maximum output power	6 W ⁸⁾
Galvanic isolation	SELV

1) Permitted voltage range

2) Minimum

3) at 230 V, 50 Hz

4) Maximum at 230 V_{AC}; P_{out}=maximum, Ta=25 °C, steady state

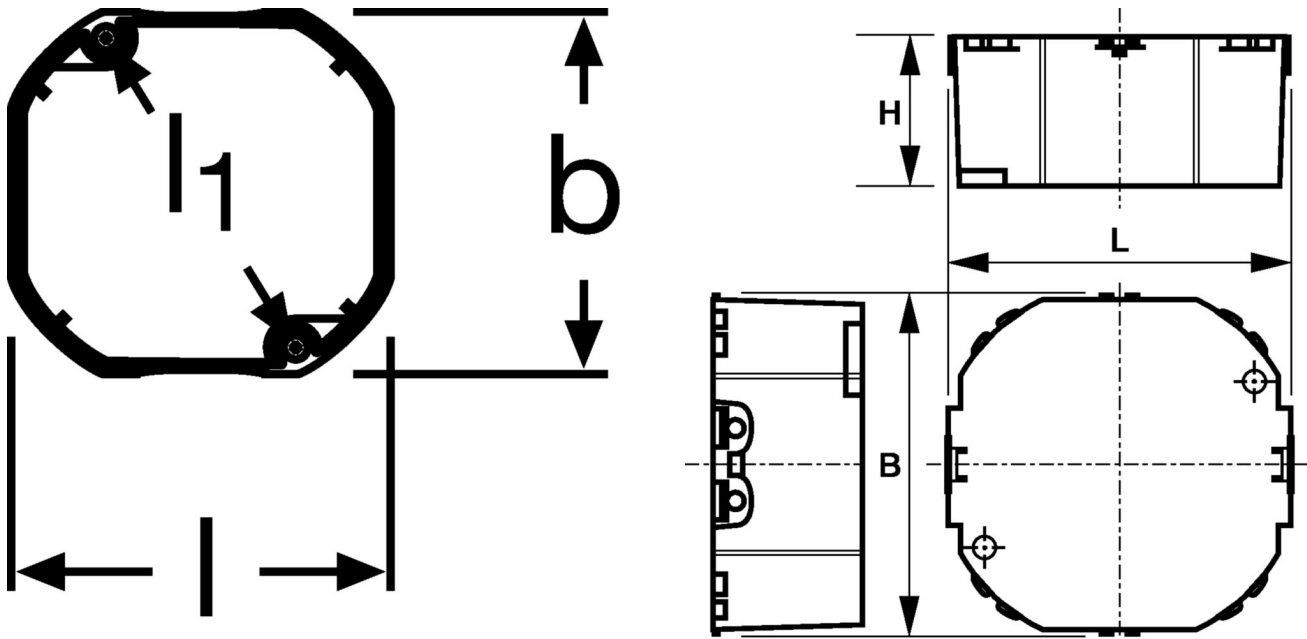
5) At 240 V_{AC}

6) ±0.8 V

7) Partial load 0.9...6 W

8) at steady state

Dimensions & weight



Length	51.0 mm
Width	50.0 mm
Height	22.0 mm
Mounting hole spacing, length	not relevant mm
Mounting hole spacing, width	not relevant mm
Cable cross-section, input side	1.0 mm ²
Cable cross-section, output side	1.0 mm ²
Wire preparation length, input side	10 mm
Wire preparation length, output side	10 mm
Product weight	52.00 g

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	70 °C
Max.housing temperature in case of fault	100 °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 ¹⁾
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1) At $T_{case} = 60^{\circ}C$ at T_c point / 10% failure rate

Capabilities

Dimmable	No
Max. cable length to lamp/LED module	10 m ¹⁾
Suitable for fixtures with prot. class	II
Type of connection, output side	not relevant
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
Intended for no-load operation	No
No-load proof	Yes
Suitable for no-load mode operat	No

1) Output wires must be routed as close as possible to each other

Certificates & standards

Approval marks – approval	CE / VDE / ENEC 10 / CB
Standards	Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to EN 55015 / Acc. to IEC 61000-3-2 / Acc. to IEC 61000-3-3 / Acc. to ANSI C 62.41 class B / Acc. to FCC 47 part 15 class B / Acc. to IEC 61547
Type of protection	IP65

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	29-07-2024
Primary Article Identifier	4008321113269
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.

Additional product information

- EMI pass verified with wire length of 2 m, from the ECG to the LED module at full load.
- Wiring longer than 2 m from ECG to LED module is possible, but site installation conditions may interfere with EMI with these longer cables. EMI is therefore not verified in this condition.
- For wires longer than 2 m, the appropriate cable cross section must be carefully selected to reduce voltage drop.

Download Data

File		
Brochures	PDF	▶OPTOTRONIC constant-voltage LED power supplies and controls (EN)
Brochures	PDF	▶730792_Light is universal - Easy installation of efficient complete systems (DE)
Brochures	PDF	▶730791_Light is universal - Easy installation of efficient complete systems (EN)
Certificates	PDF	▶OT ENEC 40038447 270224
CAD data 3-dim	Compressed	▶313445_51x52x22 9900045
CAD data 3-dim	Compressed	▶313473_51x52x22 9900045
CAD data PDF	PDF	▶313405_51x52x22 9900045
Mandatory Publications	PDF	▶OT CV CE 3578669 05 260724
User instruction	PDF	▶OPTOTRONIC CONSTANT VOLTAGE

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321113269	OT 6/200-240/24 CE	Shipping carton box 20 Pieces	330 x 140 x 76 mm	3.51 dm ³	58.95 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.