

OT 150/220-240/4A2 DIM P7 (PHASE OUT)

OPTOTRONIC - DIM (1-10V) ADJ High Current IP67 | Constant current LED power supplies with 0...10 V (IP67)



Product family features

Product family benefits

- Easily current adjustment by potentiometer
- High surge protection: up to 10 kV
- 0...10 V dimming (minimum 10%)
- High efficiency (up to 93%)
- Adjustable and wide output current range
- Wide output voltage & current range for multiple applications
- Double isolation between primary/secondary sides (SELV)
- Over temperature protection
- IP rating: IP67 (Independent installation)
- Long lifetime

Areas of application

- Street and urban lighting
- Industry lighting
- Suitable for luminaires of protection class I

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V
Total harmonic distortion	< 5 % ¹⁾
Power factor λ	> 0.95 ¹⁾
Efficiency in full-load	93.5 % ²⁾
Device power loss	10.5 W ³⁾
Inrush current	60 A ⁴⁾
Max. ECG no. on circuit breaker 10 A (B)	3
Max. ECG no. on circuit breaker 16 A (B)	6
Surge capability (L-N)	6 kV
Surge capability (L/N-Ground)	10 kV
Nominal output voltage	36...48 V
U-OUT (working voltage)	60 V
Nominal output current	3.1A...4.2 A
Minimum output current	3.1 A
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 % ⁵⁾
Nominal output power	105...150 W
Maximum output power	150 W

1) $\geq 70\%$ load

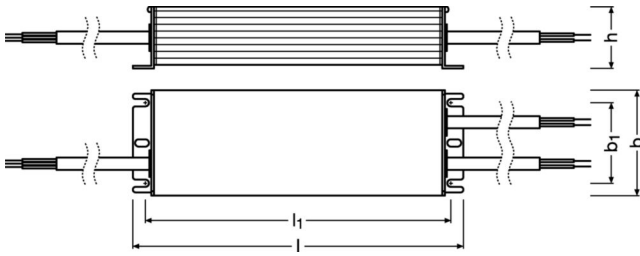
2) at 230 V, 50 Hz

3) V_{in} 230v 50Hz

4) Max, $t_h = 400 \mu s$

5) Low frequency ≤ 100 Hz, full load @ 230V

Dimensions & weight



Product weight	720.00 g
Length	188.0 mm
Width	60.0 mm
Height	33.0 mm
Mounting hole spacing, length	174.0 mm
Mounting hole spacing, width	45.8 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

Temperatures & operating conditions

Ambient temperature range	-40...+55 °C
Maximum temperature at tc test point	90 °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 ¹⁾
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1) $T_c = 80^\circ\text{C}$, with max. 10% failure rate

Capabilities

Dimmable	Yes
Dimming interface	0-10V
Dimming range	10...100 %
Dimming method	PWM / 0-10V / Resistor
Max. cable length to lamp/LED module	2.0 m ¹⁾
Suitable for fixtures with prot. class	I
Type of connection, input side	Wires
Type of connection, output side	Wires
Number of channels	1
Overheating protection	Yes
Overload protection	Yes
Short-circuit protection	Yes
Intended for no-load operation	No
No-load proof	Yes

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

Certificates & standards

Approval marks – approval	CCC / CE / ENEC 25 / IP67 / RCM / SELV
Standards	EN 61347-2-13 / EN 61347-1 / EN 55015 / EN 61547 / EN 61000-3-2 / EN 61000-3-3 / EN 60598-1 (ED.8) / EN 62384
Type of protection	IP67

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	06-03-2025
Primary Article Identifier	4062172087254
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		
Mandatory Publications	PDF	▶UKD OT xx P7 family 9C1-4281273-EN-02 2022-02
Mandatory Publications	PDF	▶CED OT xx P7 outdoor family 9C1-3799852-EN-05 2022-02
User instruction	PDF	▶UI OT DIM P7

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172087254	OT 150/220-240/4A2 DIM P7	Shipping carton box 15 Pieces	399 x 264 x 183 mm	19.28 dm ³	762.60 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.