

OPTOTRONIC - DIM (1-10V) ADJ High Current IP67

Constant current LED power supplies with 0...10 V (IP67)



Areas of application

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

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

Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Input voltage AC	Nominal current	Mains frequency	Power factor λ	Total harmonic distortion
OT 100/220-240/2A8 DIM P7	NaN V	198...264 V	0.6 A	50...60 Hz	> 0.95 ¹⁾	< 8 % ¹⁾
OT 150/220-240/4A2 DIM P7	220...240 V	198...264 V	0.85 A	50...60 Hz	> 0.95 ¹⁾	< 5 % ¹⁾
OT 200/220-240/5A6 DIM P7	220...240 V	195...264 V	1.2 A	50...60 Hz	> 0.95 ¹⁾	< 10 % ¹⁾

Product description	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)
OT 100/220-240/2A8 DIM P7	11 W ²⁾	55 A ³⁾	4	7	12
OT 150/220-240/4A2 DIM P7	10.5 W ²⁾	60 A ³⁾	3	6	9
OT 200/220-240/5A6 DIM P7	14 W ²⁾	65 A ⁶⁾	2	4	7

Product description	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output power	Maximum output power
OT 100/220-240/2A8 DIM P7	10 kV	6 kV	10...100 W	100 W
OT 150/220-240/4A2 DIM P7	10 kV	6 kV	105...150 W	150 W
OT 200/220-240/5A6 DIM P7	10 kV	6 kV	20...200 W	200 W

Product description	Efficiency in full-load	Nominal output current	Output current tolerance	Output ripple current (100 Hz)
OT 100/220-240/2A8 DIM P7	90.5 % ⁴⁾	2A...2.8 A	±5 %	< 5 % ⁵⁾
OT 150/220-240/4A2 DIM P7	93.5 % ⁴⁾	3.1A...4.2 A	±5 %	< 5 % ⁵⁾
OT 200/220-240/5A6 DIM P7	93.5 % ⁴⁾	4.2 A...5.6 A	±5 %	< 5 % ⁵⁾

Product description	Minimum output current	Galvanic isolation
OT 100/220-240/2A8 DIM P7	2 A	double/reinforced
OT 150/220-240/4A2 DIM P7	3.1 A	double/reinforced
OT 200/220-240/5A6 DIM P7	4.2 A	double/reinforced

¹⁾ ≥70% load

²⁾ Vin 230V 50Hz

³⁾ Max, th = 400 µs

⁴⁾ at 230 V, 50 Hz

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

⁶⁾ Max, th = 500 µs

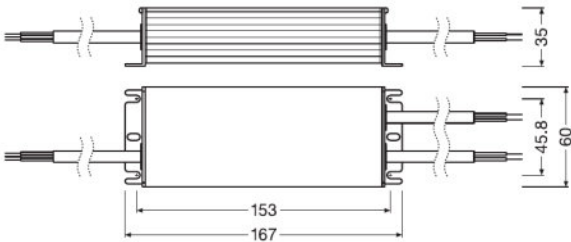
Product family datasheet

Dimensions & weight

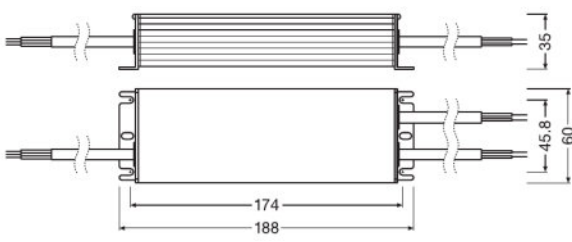
Product description	Length	Width	Height	Mounting hole spacing, length	Mounting hole spacing, width	Product weight
OT 100/220-240/2A8 DIM P7	167.0 mm	60.0 mm	33.0 mm	153 mm	45.8 mm	560.00 g
OT 150/220-240/4A2 DIM P7	188.0 mm	60.0 mm	33.0 mm	174.0 mm	45.8 mm	720.00 g
OT 200/220-240/5A6 DIM P7	167.0 mm	60.0 mm	33.0 mm	199.0 mm	45.8 mm	750.00 g

Product description	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
OT 100/220-240/2A8 DIM P7	1.0 mm ²	1.0 mm ²	10 mm
OT 150/220-240/4A2 DIM P7	1.0 mm ²	1.0 mm ²	10 mm
OT 200/220-240/5A6 DIM P7	1.0 mm ²	1.0 mm ²	10 mm

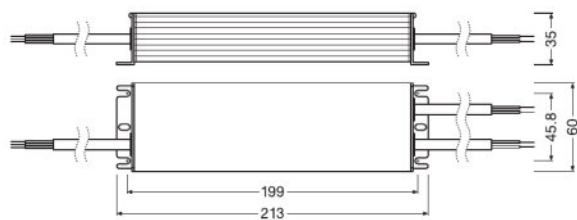
Product line drawing



OT 100/220-240/2A8 DIM P7



OT 150/220-240/4A2 DIM P7



OT 200/220-240/5A6 DIM P7

Temperatures & operating conditions

Product description	Ambient temperature range	Temperature range at storage	Maximum temperature at tc test point	Max.housing temperature in case of fault
OT 100/220-240/2A8 DIM P7	-40...+55 °C	-40...+85 °C	90 °C	110 °C
OT 150/220-240/4A2 DIM P7	-40...+55 °C	-40...+85 °C	90 °C	110 °C
OT 200/220-240/5A6 DIM P7	-40...+55 °C	-40...+85 °C	90 °C	110 °C

Product description	Permitted rel. humidity during operation
OT 100/220-240/2A8 DIM P7	5...85 % ¹⁾
OT 150/220-240/4A2 DIM P7	5...85 % ¹⁾
OT 200/220-240/5A6 DIM P7	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OT 100/220-240/2A8 DIM P7	50000 h ¹⁾
OT 150/220-240/4A2 DIM P7	50000 h ¹⁾
OT 200/220-240/5A6 DIM P7	50000 h ¹⁾

¹⁾ T_c = 80°C, with max. 10% failure rate

Capabilities

Product description	Dimmable	Dimming interface	Dimming range	Suitable for fixtures with prot. class
OT 100/220-240/2A8 DIM P7	Yes	0-10V	10...100 %	I
OT 150/220-240/4A2 DIM P7	Yes	0-10V	10...100 %	I
OT 200/220-240/5A6 DIM P7	Yes	0-10V	10...100 %	I

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Max. cable length to lamp/LED module
OT 100/220-240/2A8 DIM P7	Yes	Yes	No	2.0 m ¹⁾
OT 150/220-240/4A2 DIM P7	Yes	Yes	No	2.0 m ¹⁾
OT 200/220-240/5A6 DIM P7	Yes	Yes	No	2.0 m ¹⁾

Product description	Number of channels	Overload protection
OT 100/220-240/2A8 DIM P7	1	Yes
OT 150/220-240/4A2 DIM P7	1	Yes
OT 200/220-240/5A6 DIM P7	1	Yes

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

Certificates & standards

Product description	Type of protection	Standards	Approval marks – approval
OT 100/220-240/2A8 DIM P7	IP67	Acc. to EN 61347-2-13/Acc. to EN 61347-1/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 (ED.8)/Acc. to EN 62384	CCC / CE / ENEC 25 / IP67 / SELV / RCM
OT 150/220-240/4A2 DIM P7	IP67	Acc. to EN 61347-2-13/Acc. to EN 61347-1/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 (ED.8)/Acc. to EN 62384	CCC / CE / ENEC 25 / IP67 / RCM / SELV
OT 200/220-240/5A6 DIM P7	IP67	Acc. to EN 55015/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 61547/Acc. to EN 60598-1 (ED.8)/Acc. to EN 62384	CCC / CE / ENEC 25 / IP67 / RCM / SELV / TISI

Product family datasheet

Logistical data

Product description	Commodity code
OT 100/220-240/2A8 DIM P7	850440829000
OT 150/220-240/4A2 DIM P7	850440829000
OT 200/220-240/5A6 DIM P7	850440829000

Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OT 100/220-240/2A8 DIM P7	28-01-2022	4062172087230	Lead
OT 150/220-240/4A2 DIM P7	28-01-2022	4062172087254	Lead
OT 200/220-240/5A6 DIM P7	19-01-2022	4062172087278	No declarable substances contained

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OT 100/220-240/2A8 DIM P7	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	9fa93037-a1c0-46a0-b1ee-c4168aef9106
OT 150/220-240/4A2 DIM P7	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	ce24690a-ebc8-4b57-a9a1-1da28884329c
OT 200/220-240/5A6 DIM P7			No declarable substances contained

Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File
 User instruction OPTOTRONIC DIM P7

Product family datasheet

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.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172087230	OT 100/220-240/2A8 DIM P7	Shipping carton box 15	399 mm x 239 mm x 183 mm	17.45 dm ³	8982.00 g
4062172087254	OT 150/220-240/4A2 DIM P7	Shipping carton box 15	399 mm x 264 mm x 183 mm	19.28 dm ³	11439.00 g
4062172087278	OT 200/220-240/5A6 DIM P7	Shipping carton box 15	399 mm x 289 mm x 183 mm	21.10 dm ³	11914.00 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.