

## OPTOTRONIC Outdoor

High current LED drivers



### Areas of application

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

### Product benefits

- High surge protection: up to 6 kV
- High efficiency and reliability
- Adjustable and wide output current range
- Constant current output
- Protection through double isolation between primary and secondary side (SELV)
- High IP protection (IP65)
- Long lifetime: up to 100,000 h

### Product features

- Overtemperature protection
- Available with different wattage: 100 W, 150 W, 200 W
- Line voltage: 220...240 V
- Current setting via potentiometer without programming

# Product family datasheet

## Technical data

### Electrical data

Product description	Nominal voltage	Input voltage AC	Nominal current	Mains frequency	Power factor $\lambda$	Total harmonic distortion
OT 100/220...240/4A2 P5	220...240 V	198...264 V <sup>1)</sup>	0.52 A	50...60 Hz	> 0.99/> 0.90 <sub>2)</sub>	< 10 %
OT 150/220...240/4A9 P5	220...240 V	198...264 V <sup>1)</sup>	0.77 A	50...60 Hz	> 0.98/> 0.90 <sub>2)</sub>	< 10 %
OT 200/220...240/5A6 P5	220...240 V	198...264 V <sup>1)</sup>	1 A	50...60 Hz	> 0.98/> 0.90 <sub>2)</sub>	< 10 %

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...240/4A2 P5	14 W	50 A	5	8	13
OT 150/220...240/4A9 P5	22 W	120 A	2	4	6
OT 200/220...240/5A6 P5	26 W	105 A	2	4	6

Product description	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output power	ECG efficiency	Nominal output voltage
OT 100/220...240/4A2 P5	6 kV	6 kV	100 W <sup>3)</sup>	88 %	24...48 V
OT 150/220...240/4A9 P5	6 kV	6 kV	150 W <sup>5)</sup>	90 %	30...60 V
OT 200/220...240/5A6 P5	6 kV	6 kV	200 W <sup>6)</sup>	91 %	35...70 V

Product description	U-OUT (working voltage)	Nominal output current	Output current tolerance	Minimum output current
OT 100/220...240/4A2 P5	60 V	2.1...4.2 mA <sup>4)</sup>	±5 %	1 A
OT 150/220...240/4A9 P5	75 V	2.45...4.9 mA <sup>4)</sup>	±5 %	2 A
OT 200/220...240/5A6 P5	80 V	2.8...5.6 mA <sup>4)</sup>	±5 %	2 A

Product description	Galvanic isolation
OT 100/220...240/4A2 P5	double/reinforced
OT 150/220...240/4A9 P5	double/reinforced
OT 200/220...240/5A6 P5	double/reinforced

<sup>1)</sup> Permitted voltage range

<sup>2)</sup> Full load at 220...240 V<sub>AC</sub>/50 Hz/Half load at 220...240 V<sub>AC</sub>/50 Hz

<sup>3)</sup> Partial load 51...100 W

<sup>4)</sup> ±5%

<sup>5)</sup> Partial load 74...150 W

<sup>6)</sup> Partial load 98...200 W

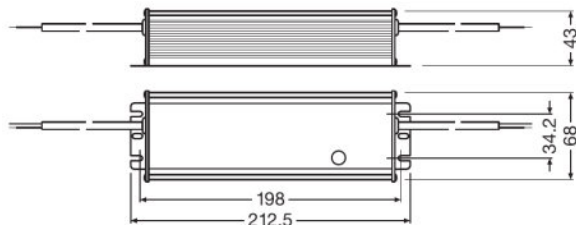
## Product family datasheet

### Dimensions & weight

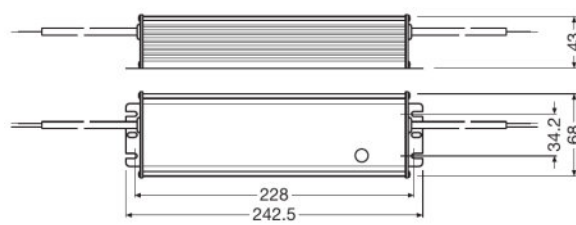
Product description	Length	Width	Height	Mounting hole spacing, length	Product weight	Cable cross-section, input side
OT 100/220...240/4A2 P5	212.5 mm	68.0 mm	42.5 mm	201.6 mm	1000.00 g	1.0 mm <sup>2</sup>
OT 150/220...240/4A9 P5	242.5 mm	68.0 mm	42.5 mm	231.5 mm	1100.00 g	1.0 mm <sup>2</sup>
OT 200/220...240/5A6 P5	252.5 mm	68.0 mm	42.5 mm	241.6 mm	1200.00 g	1.0 mm <sup>2</sup>

Product description	Cable cross-section, output side	Wire preparation length, input side
OT 100/220...240/4A2 P5	1.0 mm <sup>2</sup>	10 mm
OT 150/220...240/4A9 P5	1.0 mm <sup>2</sup>	10 mm
OT 200/220...240/5A6 P5	1.0 mm <sup>2</sup>	10 mm

### Product line drawing

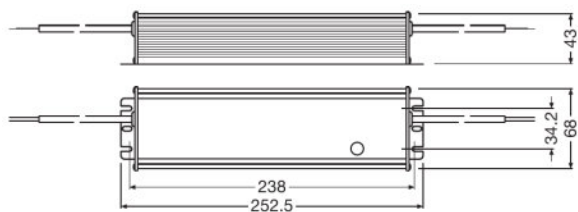


OT 100/220...240/4A2 P5



OT 150/220...240/4A9 P5

## Product family datasheet



OT 200/220...240/5A6 P5

### Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault
OT 100/220...240/4A2 P5	-40...+55 °C	85 °C	110 °C
OT 150/220...240/4A9 P5	-40...+55 °C	85 °C	110 °C
OT 200/220...240/5A6 P5	-40...+50 °C	85 °C	110 °C

### Lifespan

Product description	ECG lifetime
OT 100/220...240/4A2 P5	50000 h
OT 150/220...240/4A9 P5	50000 h
OT 200/220...240/5A6 P5	50000 h

## Product family datasheet

### Expected Lifetime

Product name				
OT 100/220...240/4A2 P5	ECG ambient temperature [ta]	-	-	-
	Temperature at tc-point [°C]	80	70	-
	Lifetime [h]	50000 <sup>1)</sup>	80000 <sup>1)</sup>	-
OT 150/220...240/4A9 P5	ECG ambient temperature [ta]	-	-	-
	Temperature at tc-point [°C]	85	75	-
	Lifetime [h]	50000 <sup>2)</sup>	80000 <sup>2)</sup>	-
OT 200/220...240/5A6 P5	ECG ambient temperature [ta]	-	-	-
	Temperature at tc-point [°C]	85	75	-
	Lifetime [h]	50000 <sup>3)</sup>	80000 <sup>3)</sup>	-

<sup>1)</sup> Max. 10% failure rate at tc max

<sup>2)</sup> Max. 10% failure rate at tc max

<sup>3)</sup> Max. 10% failure rate at tc max

### Capabilities

Product description	Dimmable	Suitable for fixtures with prot. class	NTC input	Number of channels
OT 100/220...240/4A2 P5	No	I	No	1
OT 150/220...240/4A9 P5	No	I	No	1
OT 200/220...240/5A6 P5	No	I	No	1

### Certificates & standards

Product description	Type of protection	Standards
OT 100/220...240/4A2 P5	IP65	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
OT 150/220...240/4A9 P5	IP65	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
OT 200/220...240/5A6 P5	IP65	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

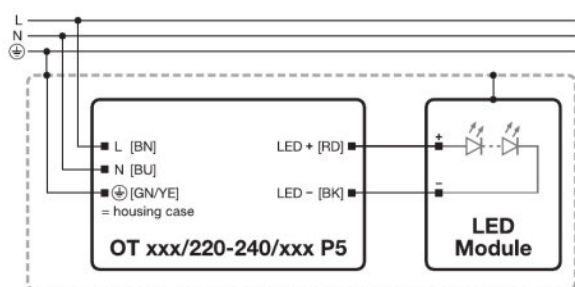
Product description	Approval marks – approval
OT 100/220...240/4A2 P5	CCC / CE / CB
OT 150/220...240/4A9 P5	CCC / CE / CB
OT 200/220...240/5A6 P5	CCC / CE / CB

## Product family datasheet

### Logistical data

Product description	Temperature range at storage
OT 100/220...240/4A2 P5	-40...85 °C
OT 150/220...240/4A9 P5	-40...85 °C
OT 200/220...240/5A6 P5	-40...85 °C

### Wiring Diagram



OT 100/220...240/4A2 P5, OT 150/220...240/4A9 P5, OT 200/220...240/5A6 P5

### Application advice




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

### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### Download Data

## Product family datasheet

File	
	Product Datasheet OT 100220-2404A2 P5
	Declarations of conformity 727242_EC OT
	Product Datasheet OT 200220-2405A6 P5

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899410657	OT 100/220...240/4A2 P5	Shipping carton box 10	322 mm x 292 mm x 196 mm	18.43 dm <sup>3</sup>	10842.00 g
4052899410671	OT 150/220...240/4A9 P5	Shipping carton box 10	312 mm x 292 mm x 196 mm	17.86 dm <sup>3</sup>	11918.00 g
4052899410695	OT 200/220...240/5A6 P5	Shipping carton box 10	292 mm x 282 mm x 196 mm	16.14 dm <sup>3</sup>	12742.00 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.