

Product datasheet

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

OPTOTRONIC Outdoor | High current LED drivers



Areas of application

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

Product family benefits

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

Product family features

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



Technical data

Electrical data

Nominal voltage	220...240 V
Input voltage AC	198...264 V ¹⁾
Nominal current	0.52 A
Mains frequency	50...60 Hz
Power factor λ	> 0.99/> 0.90 ²⁾
Total harmonic distortion	< 10 %
Device power loss	14 W
Inrush current	50 A
Max. ECG no. on circuit breaker 10 A (B)	5
Max. ECG no. on circuit breaker 16 A (B)	8
Max. ECG no. on circuit breaker 25 A (B)	13
Surge capability (L/N-Ground)	6 kV
Surge capability (L-N)	6 kV
Nominal output power	100 W ³⁾
ECG efficiency	88 %
Nominal output voltage	24...48 V
U-OUT (working voltage)	60 V
Nominal output current	2100...4200 mA ⁴⁾
Output current tolerance	±5 %
Minimum output current	1 A
Galvanic isolation	double/reinforced

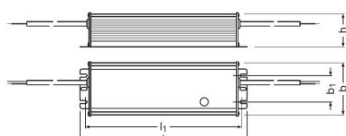
1) Permitted voltage range

2) Full load at 220...240 V_{AC} /50 Hz/Half load at 220...240 V_{AC} /50 Hz

3) Partial load 51...100 W

4) ±5%

Dimensions & weight



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Length	212.5 mm
Width	68.0 mm
Height	42.5 mm
Mounting hole spacing, length	201.6 mm
Product weight	1000.00 g
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

Temperatures & operating conditions

Ambient temperature range	-40...+55 °C
Temperature range at storage	-40...+85 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C

Lifespan

ECG lifetime	50000 h ¹⁾
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¹⁾ At maximum $T_c = 80^\circ\text{C} / 10\%$ failure rate / At $T_c = 70^\circ\text{C} / 10\%$ failure rate

Expected Lifetime

Product name				
OT 100/220...240/4A2 P5	ECG ambient temperature [ta]	-	-	-
	Temperature at tc-point [°C]	80	70	-
	Lifetime [h]	50000 ¹⁾	80000 ¹⁾	-

¹⁾ Max. 10% failure rate at tc max

Capabilities

Dimmable	No
Suitable for fixtures with prot. class	I
NTC input	No
Number of channels	1

Certificates & standards

Type of protection	IP65
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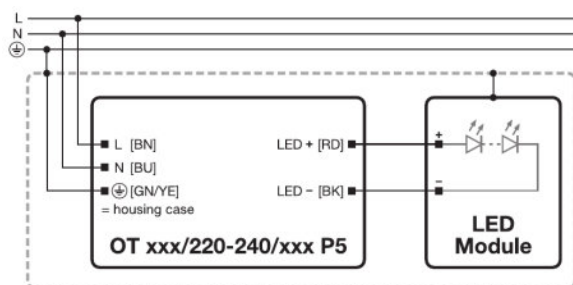
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Standards	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 60598-1/Acc. to EN 62384
Approval marks – approval	CCC / CE / CB

Logistical data





Commodity code	850440829000
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Wiring Diagram



Wiring diagram

Download Data

File
 Product Datasheet OT 100220-2404A2 P5
 Brochures Technical Application Guide - 4DIMLT2 G2 CE LED drivers (EN)
 Declarations of conformity OT OUTDOOR P5 CE 3218662 121119
 CAD data 3-dim OT High current 100W

Logistical Data

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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 ³	10842.00 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.