

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

OPTOTRONIC Outdoor – Non dimmable (double/reinforced) | Constant current LED driver



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

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

Areas of application

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



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⁾
Maximum output power	100 W
Efficiency in full-load	88 % ⁴⁾
Nominal output voltage	24...48 V
U-OUT (working voltage)	60 V
Nominal output current	2100...4200 mA ⁵⁾
Output current tolerance	±5 %
Minimum output current	1 A
Galvanic isolation	double/reinforced

¹⁾ Permitted voltage range

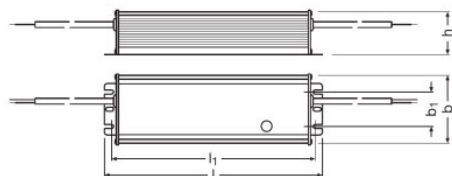
²⁾ Full load at 220...240 V_{AC}/50 Hz/Half load at 220...240 V_{AC}/50 Hz

³⁾ Partial load 51...100 W

⁴⁾ at 230 V, 50 Hz

⁵⁾ ±5%

Dimensions & weight



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

Product datasheet

Capabilities

Dimmable	No
Suitable for fixtures with prot. class	I
Intended for no-load operation	No
Number of channels	1

Certificates & standards

Type of protection	IP65
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

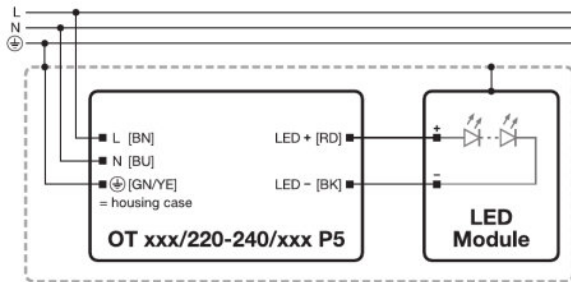
Logistical data

Commodity code	850440829000
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Environmental information




Date of Declaration	10-11-2021
Primary Article Identifier	4052899410657
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	6b56cf60-e89c-40bb-b1d5-61198d00525d

Wiring Diagram



723286_Wiring Diagramm OT XXX220-2420XXX P5

Download Data

File	
	Brochures Technical Application Guide - 4DIMLT2 G2 CE LED drivers (EN)
	Declarations of conformity OT P5 WP CE 3218662 060921
	CAD data 3-dim OT High current 100W

Product 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
4052899410657	OT 100/220...240/4A2 P5	Shipping carton box 10	292 mm x 282 mm x 212 mm	17.46 dm ³	10783.00 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.