

OT 150/220...240/1A4 1DIMA P7

OT 1DIM NFC IP67 Outdoor | AstroDIM – constant current LED drivers



Areas of application

- Street and urban lighting
- Industry

Product family benefits

- Easy and fast wireless luminaire programming
- Very high efficiency
- High surge protection: up to 6 kV
- Great flexibility due to wide operating temperature range of -40...55 °C
- Optimized for AstroDIM operation

Product family features

- Supply voltage: 220...240 V
- Available with output current range: up to 1,400 mA
- AstroDIM for autonomous dimming with five independent levels (astro, time mode)
- Constant Lumen Output (CLO)
- IP rating: IP67 with independent installation
- Overtemperature protection

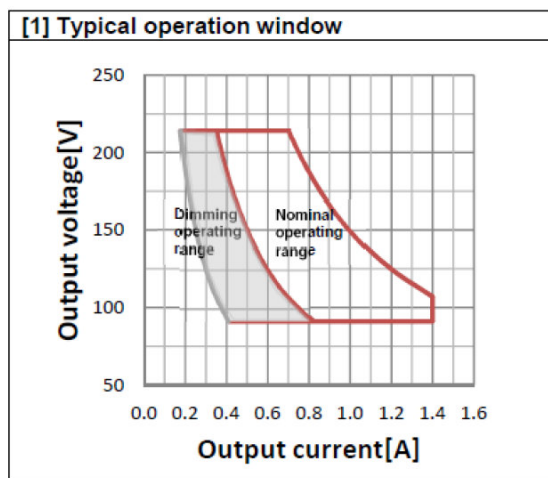


Technical data

Electrical data

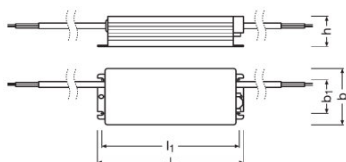
Nominal voltage	220...240 V
Input voltage AC	198...264 V
Nominal current	0.77 A
Mains frequency	50...60 Hz
Power factor λ	> 0.97
Total harmonic distortion	< 10 %
Device power loss	13 W
Inrush current	95 A ¹⁾
Max. ECG no. on circuit breaker 10 A (B)	3
Max. ECG no. on circuit breaker 16 A (B)	5
Max. ECG no. on circuit breaker 25 A (B)	8
Surge capability (L/N-Ground)	10 kV
Surge capability (L-N)	6 kV
Nominal output power	150 W
ECG efficiency	92 %
Nominal output voltage	107...214 V
Nominal output current	700...1400 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 %
Minimum output current	400 mA
Galvanic isolation	basic
Max. no. of ECGs on 16A MCB with EBN-OS	10

¹⁾ $t_{\text{width}} = 264 \mu\text{s}$ (measured at 50 % I_{peak})



Operating Window

Dimensions & weight



Length	212.6 mm
Width	68.5 mm
Height	38.6 mm
Mounting hole spacing, length	199.8 mm
Mounting hole spacing, width	42.9 mm
Product weight	940.00 g
Cable cross-section, input side	1.0 mm ²
Cable cross-section, output side	1.0 mm ²

Product datasheet

Wire preparation length, input side	10 mm
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Temperatures & operating conditions

Ambient temperature range	-40...+55 °C
Temperature range at storage	-25...85 °C
Maximum temperature at tc test point	85 °C
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 / 100000 h ¹⁾
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¹⁾ At maximum $T_c = 85^\circ\text{C}$ / 10% failure rate / At $T_c = 75^\circ\text{C}$ / 10% failure rate

Capabilities

Dimmable	Yes
Dimming interface	AstroDIM
Dimming range	25...100 %
Suitable for fixtures with prot. class	I
Constant lumen function	Yes
NTC input	-
Overheating protection	Yes
Overload protection	Yes
Short-circuit protection	Yes
No-load proof	Yes
Max. cable length to lamp/LED module	2.0 m
Number of channels	1
DALI-2 Energy Data	No
DALI-2 Diagnostic Data	No

Programming

Tuner4TRONIC	Yes
Tuner4TRONIC Field App	No
Programming device	NFC

Programmable features

Operating Current	Yes
Tuning Factor	No
Constant Lumen	Yes

Product datasheet

Lamp Operating Time	Yes
End of Life	Yes
Thermal Protection	No
AstroDIM	Yes
StepDIM	No
MainsDIM	No
Presence Detection	No
DALI Settings	No
Emergency Mode	No
DALI-2 Luminaire Data	No




Certificates & standards

Type of protection	IP67
Standards	Acc. to EN 60598-1/Acc. to EN 61347-1/Acc. to EN 61547
Approval marks – approval	CCC / CE / ENEC

Logistical data

Commodity code	850440829000
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Download Data

File	
	User instruction OPTOTRONIC 1DIMA P7
	Brochures Technical Application Guide - 4DIMLT2 G2 CE LED drivers (EN)
	Declarations of conformity EU Declaration of Conformity 3612841

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899495050	OT 150/220...240/1A4 1DIMA P7	Shipping carton box 10	469 mm x 289 mm x 128 mm	17.35 dm ³	10356.00 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.

Product datasheet

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.