

OT 75/220...240/1A0 1DIM G2 CE

OPTOTRONIC - 1DIM NFC IP20 | AstroDIM – constant current LED drivers



Product family features

- Supply voltage: 220...240 V
- Current output range: 70...1,050 mA
- AstroDIM for autonomous dimming with five independent levels (astro, time mode)
- Standby power consumption: < 0.5 W
- Constant Lumen Output (CLO)
- Integrated customizable thermal management (Driver Guard)

Product family benefits

- Easy and fast wireless luminaire programming
- Very high efficiency
- Optimized for AstroDIM operation
- Wide current output range: 200 mA...1050 mA
- High surge protection: up to 10 kV (in protection class I or II)
- Great flexibility due to wide operating temperature range of -40...55 °C
- Protection through double isolation between mains input and LED output

Areas of application

- Street and urban lighting
- Industry
- Suitable for outdoor applications in luminaires with IP > 65
- Suitable for use in outdoor luminaires of protection class I and II

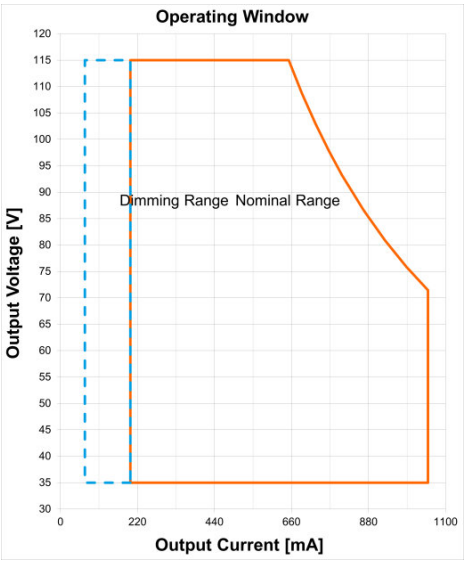
Technical data

Electrical data

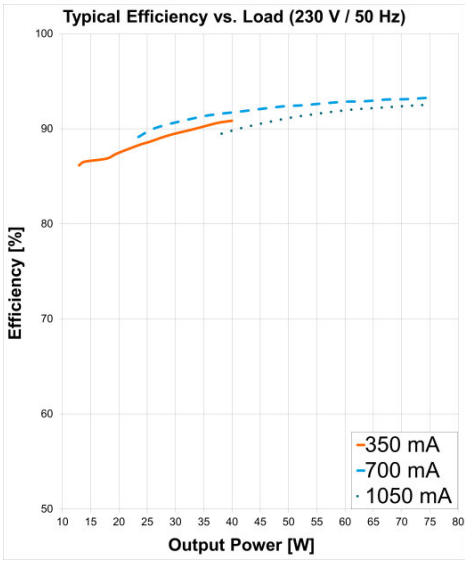
Nominal voltage	220...240 V
Input voltage AC	198...264 V
Nominal current	0.36 A
Mains frequency	50...60 Hz
Power factor λ	0.58C...0.99
Total harmonic distortion	< 5 %
Device power loss	6.0 W
Inrush current	52 A ¹⁾
Max. ECG no. on circuit breaker 10 A (B)	8
Max. ECG no. on circuit breaker 16 A (B)	13
Max. ECG no. on circuit breaker 25 A (B)	20
Surge capability (L/N-Ground)	10 kV
Surge capability (L-N)	6 kV
Nominal output power	75 W
Maximum output power	75 W
Efficiency in full-load	92 % ²⁾
Nominal output current	200...1050 mA
Output current tolerance	±3 %
Output ripple current (100 Hz)	< 5 %
Output PSTLM	≤1
Output SVM	≤0.4
Minimum output current	70 mA
Galvanic isolation	Double
Nominal output voltage	35...115 V
U-OUT (working voltage)	150 V
Max. no. of ECGs on 16A MCB with EBN-OS	30
Max. ECG no. on circuit breaker 10 A (C)	14
Max. ECG no. on circuit breaker 16 A (C)	22

¹⁾ At 192 µs

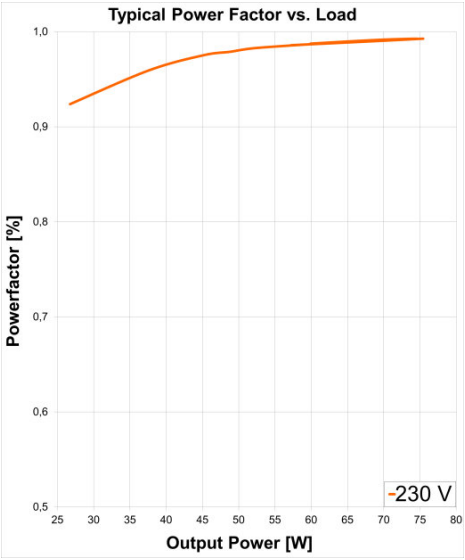
²⁾ at 230 V, 50 Hz



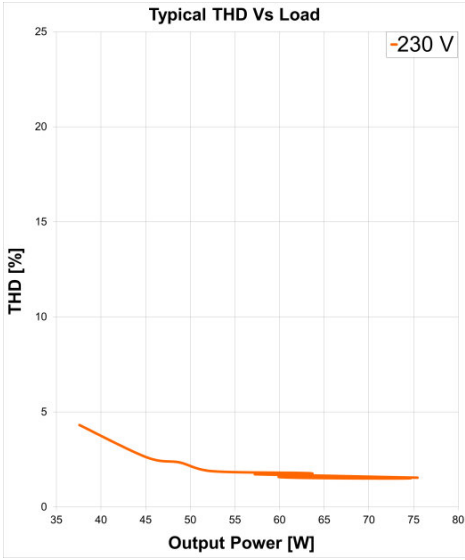
Operating Window OT DX 751A0 DIMA LT2 E



Typical Efficiency vs.Load (230 V 50 Hz) OT 75220-2401A0 1DIM G2 CE

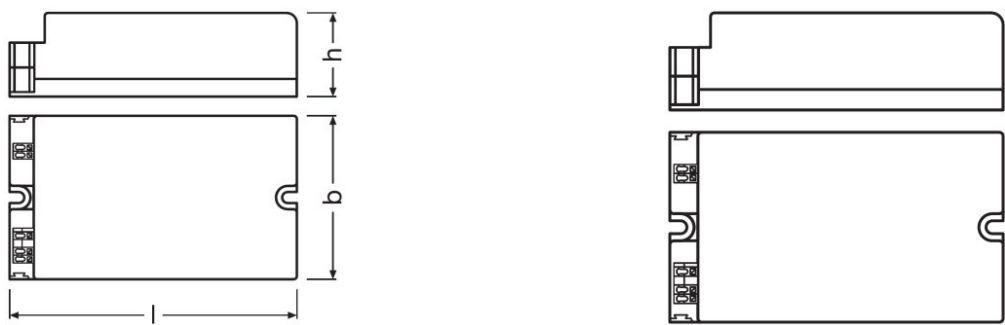


Typical Power Factor vs. Load OT 75220-2401A0 1DIM G2 CE



Typical THD Vs Load OT 75220-2401A0 1DIM G2 CE

Dimensions & weight



Length	133.0 mm
Width	77.0 mm
Height	40.0 mm
Mounting hole spacing, length	122.5 mm
Mounting hole spacing, width	-
Product weight	260.00 g
Cable cross-section, input side	0.2...1.5 mm ²
Cable cross-section, output side	0.2...1.5 mm ²
Wire preparation length, input side	8.5...9.5 mm

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	120 °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⁾ T_c = 85°C, with max. 10% failure rate / T_c = 75°C, with max. 10% failure rate

Capabilities

Dimmable	Yes
Dimming interface	AstroDIM
Dimming range	10...100 %
Suitable for fixtures with prot. class	I / II

Product datasheet

Constant lumen function	Programmable
Short-circuit protection	Automatic reversible
No-load proof	Yes
Intended for no-load operation	No
Max. cable length to lamp/LED module	2.0 m ¹⁾
Overload protection	Automatic reversible
Number of channels	1

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

Programming

Programming device	NFC
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Certificates & standards

Type of protection	IP20
Standards	Acc. to EN 61347-1:2015/Acc. to EN 61347-2-13:2014 + A1:2017/Acc. to EN 62384:2006 + A1:2009-09/Acc. to EN 55015:2013 + A1:2015/Acc. to EN 61000-3-2:2014/Acc. to EN 61000-3-3:2013/Acc. to EN 61547:2009/Acc. to ETSI EN 301 489-3 V2.1.1 (2019-03)
Approval marks – approval	CE / ENEC / VDE / VDE-EMC / CCC / EAC


Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (RECh)	
Date of Declaration	05-10-2023
Primary Article Identifier	4052899605367
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	Od4d02cb-ba62-49da-a198-f21a4f16826b

Download Data

File	
	User instruction OPTOTRONIC Outdoor

Product datasheet

	Brochures 4 DIM NFC G3 CE LED drivers and T4T C (EN)
	Certificates OT EMC 40050085 200220
	Certificates OT EMC 40044675 031022
	Declarations of conformity OT 1DIM G2 CE 756820 061221

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
4052899605367	OT 75/220...240/1A0 1DIM G2 CE	Shipping carton box 10	300 mm x 210 mm x 100 mm	6.30 dm ³	2823.00 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.

Data privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com and downloading the Tuner4TRONIC software from the Internet. The Tuner4TRONIC software enables users to access and view the operational data of a luminaire or driver via the corresponding programming interfaces. A password key (Config Lock) must be set up in the driver via the Tuner4TRONIC software in order to control which users can access and view operational data. Follow the instructions for password setup. To grant an external person or company rights to access or view operational data, you can assign password keys. In this case, however, you are responsible for ensuring that the third party concerned takes notice of the information described here. However, OSRAM can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, OSRAM will also use its access rights in order to optimize or improve driver hardware and driver functions. In accordance with data privacy principles, any user of operating data (luminaire manufacturers, third parties with access rights) must ensure that personal data (e.g. name, address, location IDs) are only merged with the prior written consent of the person (end user) concerned. The respective user of the operating data is responsible for providing evidence of consent.

Disclaimer

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