

## OT 75/220-240/1A0 1DIM G2 CE (NEW)

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

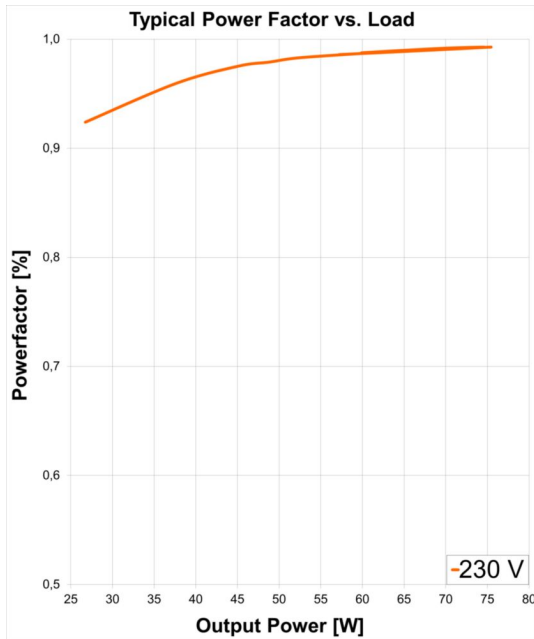
### Electrical data

Max. ECG no. on circuit breaker 10 A (B)	8
Max. ECG no. on circuit breaker 16 A (B)	13
Maximum output power	75 W
Minimum output current	70 mA
Nominal output current	200...1050 mA
Nominal output power	75 W
Nominal output voltage	35...115 V
Nominal input voltage	220...240 V
Input voltage AC	198...264 V
Device power loss	6.0 W
Efficiency in full-load	92 % <sup>1)</sup>
Inrush current	52 A <sup>2)</sup>
Power factor $\lambda$	0.58C...0.99
Mains frequency	50...60 Hz
Surge capability (L-N)	6 kV
Surge capability (L/N-Ground)	10 kV
U-OUT (working voltage)	150 V
Output current tolerance	$\pm 3$ %
Output ripple current (100 Hz)	< 5 %
Total harmonic distortion	< 5 %

1) at 230 V, 50 Hz

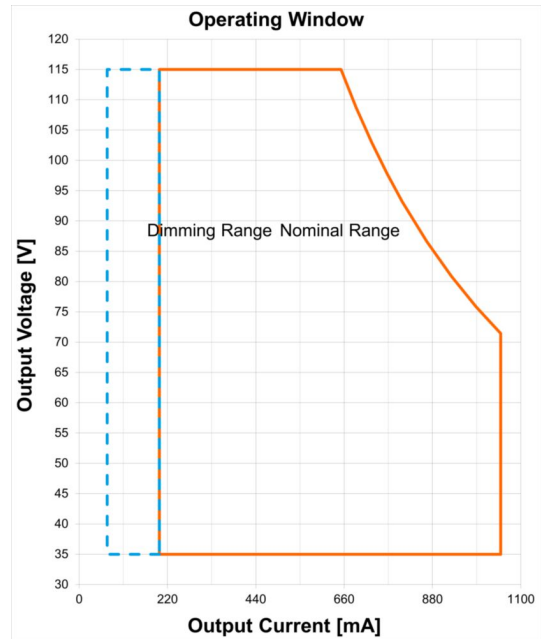
2) At 192  $\mu$ s

## Typical Power Factor v Load



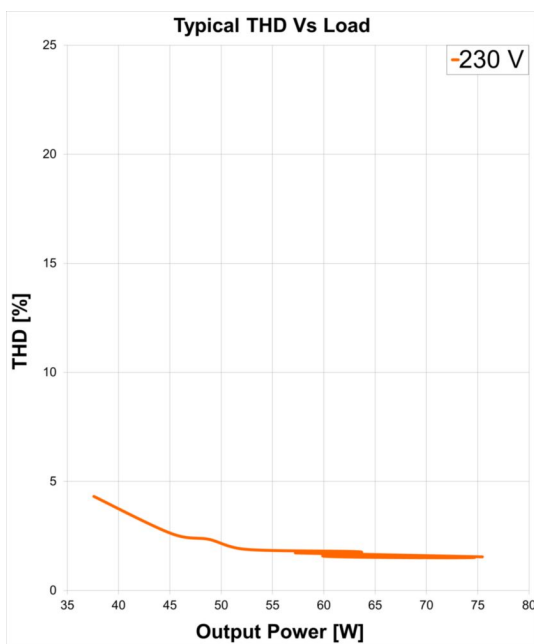
Typical Power Factor vs. Load OT 75/220-240/1A0 1DIM G2 CE

## Operating Window



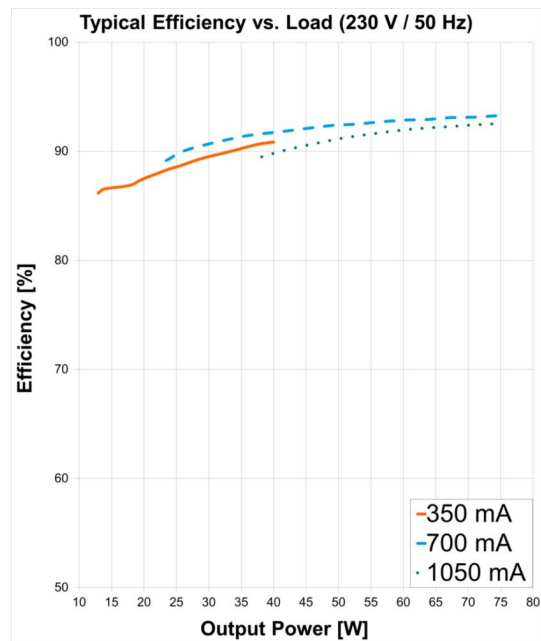
Operating Window OT DX 75/1A0 DIMA LT2 E

## Typical THD v Load



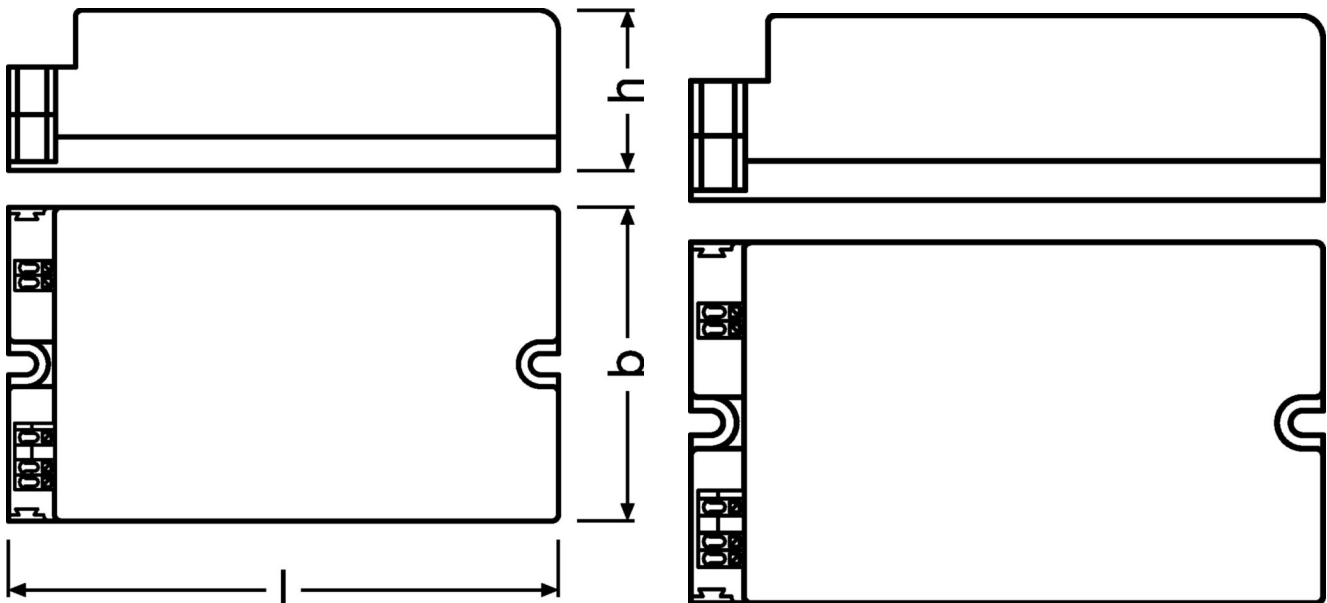
Typical THD Vs Load OT 75/220-240/1A0 1DIM G2 CE

## Typical Efficiency v Load 230 V 50 Hz



Typical Efficiency vs. Load (230 V / 50 Hz) OT 75/220-240/1A0 1DIM G2 CE

## Dimensions & weight



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

## Colors & materials

Casing material	Plastic
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## Temperatures & operating conditions

Ambient temperature range	-40...+55 °C
Max.housing temperature in case of fault	120 °C
Maximum temperature at tc test point	85 °C
Permitted rel. humidity during operation	5...85 % <sup>1)</sup>
Temperature range at storage	-25...85 °C

1) Maximum 56 days/year at 85 %

## Lifespan

<b>ECG lifetime</b>	50000 h / 100000 h <sup>1)</sup>
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1)  $T_c = 85^\circ\text{C}$ , with max. 10% failure rate /  $T_c = 75^\circ\text{C}$ , with max. 10% failure rate

## Capabilities

<b>Max. cable length to lamp/LED module</b>	2.0 m <sup>1)</sup>
<b>Number of channels</b>	1
<b>Dimmable</b>	Yes
<b>Dimming interface</b>	AstroDIM
<b>Dimming range</b>	10...100 %
<b>Overload protection</b>	Automatic reversible
<b>Overheating protection</b>	Automatic reversible
<b>Short-circuit protection</b>	Automatic reversible
<b>Suitable for fixtures with prot. class</b>	I / II
<b>Constant lumen function</b>	Programmable
<b>No-load proof</b>	Yes

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

## 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 (REACH)	
Date of Declaration	21-08-2024
Primary Article Identifier	4052899605367
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

## 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.



## Download Data

File		
Brochures	PDF	▶ 4 DIM NFC G3 CE LED drivers and T4T C (EN)
Mandatory Publications	PDF	▶ OT 1DIM G2 CE 756820 061221
User instruction	PDF	▶ OPTOTRONIC Outdoor

## 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 Pieces	300 x 210 x 100 mm	6.30 dm <sup>3</sup>	282.30 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](http://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.

## Accessories Optional

Product description	Accessory name	Accessory code
OT 75/220-240/1A0 1DIM G2 CE	PRH101 -USB	▶ 6977078996938
OT 75/220-240/1A0 1DIM G2 CE	CPR30 -USB	▶ 6977078996945
OT 75/220-240/1A0 1DIM G2 CE	NFC Scanner by TERTIUM Technology	▶ 4055462203571
OT 75/220-240/1A0 1DIM G2 CE	NFC Scanner by TERTIUM Technology	▶ 4055462290281

## Disclaimer

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