

OT 320 UNV 1A1 2DIM P7 (NEW)

OPTOTRONIC - 2DIM UNV IP67 | 2DIM/UNV (IP67) – constant current LED drivers



Product family features

- Available with different wattage: 100 W, 150 W, 200 W, 320 W
- Input voltage: 100...277 V
- Flexible current setting with programming tool
- AstroDIM for autonomous dimming
- Constant Lumen Output (CLO)

Product family benefits

- 2DIM functionality in one device (AstroDIM, 1...10 V)
- High surge protection: up to 10 kV
- High efficiency up to 92%
- Great flexibility due to wide operating temperature range of -40...60 °C
- IP rating: IP67

Areas of application

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

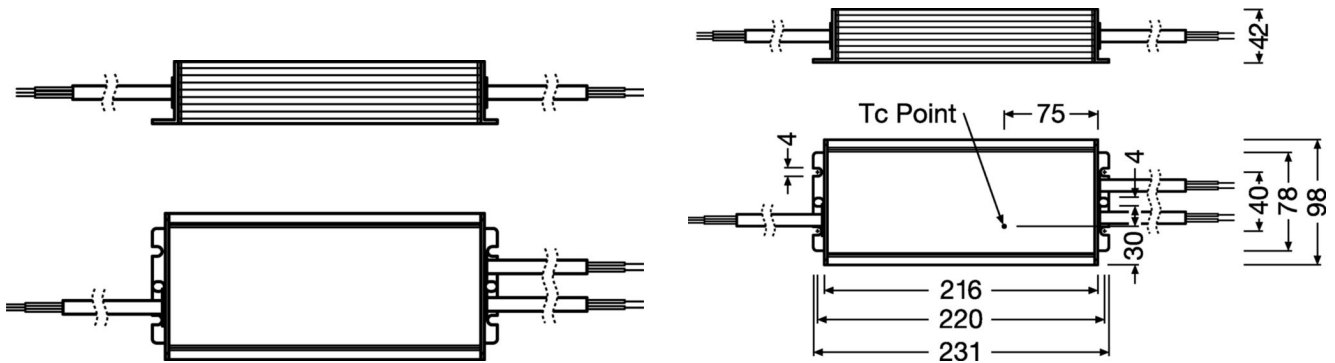
Technical data

Electrical data

Max. ECG no. on circuit breaker 10 A (B)	2
Max. ECG no. on circuit breaker 16 A (B)	3
Maximum output power	320 W
Minimum output current	110 mA
Nominal output current	520...1100 mA
Nominal output power	320 W
Nominal output voltage	228...457 V
Nominal input voltage	120...240/277 V
Input voltage AC	90...305 V
Device power loss	28 W
Efficiency in full-load	92 % ¹⁾
Inrush current	60 A
Power factor λ	0.95
Mains frequency	47...63 Hz
Surge capability (L-N)	5 kV
Surge capability (L/N-Ground)	10 kV
U-OUT (working voltage)	480 V
Output current tolerance	± 5 %
Output ripple current (100 Hz)	10 %
Total harmonic distortion	< 10 %
Default output current	700 mA

1) at 230 V, 50 Hz

Dimensions & weight



Product weight	1700.00 g
Length	231.0 mm
Height	42.0 mm
Width	98.0 mm
Cable cross-section, input side	1.0 mm ²
Cable cross-section, output side	1.0 mm ²
Cable/wire length, input side	300 mm
Cable/wire length, output side	300 mm
Mounting hole spacing, length	220.0 mm
Mounting hole spacing, width	40.0 mm
Wire preparation length, input side	10 mm
Wire preparation length, output side	10 mm

Colors & materials

Casing material	Aluminium
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Temperatures & operating conditions

Ambient temperature range	-40...+60 °C
Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾
Temperature range at storage	-40...+80 °C

1) Maximum 56 days/year at 85 %

Lifespan

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

Capabilities

Max. cable length to lamp/LED module	2.0 m ¹⁾
Number of channels	1
Dimmable	Yes
Dimming interface	2DIM / 1...10 V / AstroDIM
Dimming range	10...100 %
Overload protection	No
Overheating protection	Yes
Short-circuit protection	Automatic reversible
Suitable for fixtures with prot. class	I
Constant lumen function	Programmable
No-load proof	Yes

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

Certificates & standards

Type of protection	IP67
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 62384 / Acc. to EN 62386 / GB 19510.1 / GB 19510.14 / GB 17625.1 / UL-8750 / FCC part 15 / SASO 2927:2019
Approval marks – approval	CCC / CE / ENEC / UL

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	24-05-2024
Primary Article Identifier	4062172158220
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.

Additional product information

- The driver withstands an input voltage of up to 305 Vac. Shut down of output load might occur in case the supply voltage exceeds the declared input voltage range.
- For short circuit protection the driver automatically switches into hiccup mode and auto recovery. No damage will occur when any output is short circuited. The output shall return to normal when the fault condition is removed.
- The driver automatically switches into protection mode when output voltage exceeds limit and return to normal when the fault condition is removed.
- The constant lumen feature is disabled by default.
- If any output level is below the physical min level, the physical min level will be used.
- External control devices connected to the 1-10V interface shall be double/reinforced insulated.
- For configuration of the product USB Programming Tool OT PROGRAMMER (4062172171632) and Software OPTOTRONIC 2DIM P7 Programming Tool (<https://www.osram.com/ds/tools/software.jsp>) is required.
- Important note:
OSRAM products must never be directly exposed to external influences. Always provide adequate protection for relevant applications (covers, housings etc.), otherwise the warranty claim will be invalid.

Download Data

File		
Certificates	PDF	▶ OT 320 2DIMP7 ENEC 50357505 260421
Certificates	PDF	▶ OT UNV 2DIM P7 UL E320395 310321
CAD data	Compressed	▶ OT 320 2DIM UNV P7 STEP 040221
Mandatory Publications	PDF	▶ OT 2DIMP7 CE 4224289 061221
Mandatory Publications	PDF	▶ UKD OT xx P7 family 9C1-4281273-EN-02 2022-02
Mandatory Publications	PDF	▶ CED OT xx P7 outdoor family 9C1-3799852-EN-05 2022-02
User instruction	PDF	▶ OPTOTRONIC UNV 2DIM P7

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172158220	OT 320 UNV 1A1 2DIM P7	Shipping carton box 5 Pieces	610 x 370 x 100 mm	22.57 dm ³	1902.00 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

Accessories Optional

Product description	Accessory name	Accessory code
OT 320 UNV 1A1 2DIM P7	OT PROGRAMMER/5	▶ 4062172171632

Disclaimer

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