

OTe 120/110...277/12 E

CV Power supplies 12 V



Product family benefits

- Versatile scope of application due to output power range of up to 120 W
- Very high efficiency
- IP rating: up to IP67
- High surge protection: up to 3 kV (L-N) / 6 kV (L/N-PE)

Areas of application

- Suitable for indoor and outdoor installations
- Ideal for mounting in very tight spaces

Technical data

Electrical data

Nominal input voltage	110...277 V
Mains frequency	50...60 Hz
Input voltage AC	100...305 V ¹⁾
Total harmonic distortion	< 20 %
Power factor λ	0.95/0.90 ²⁾
Efficiency in full-load	89 % ³⁾
Device power loss	18 W ⁴⁾
Protective conductor current	<2.0 mA
Inrush current	109 A ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	4
Max. ECG no. on circuit breaker 16 A (B)	6
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L-N)	2 kV
Nominal output voltage	12.5 V ⁶⁾
U-OUT (working voltage)	12.5 V
Nominal output power	120 W ⁷⁾
Maximum output power	120 W
Galvanic isolation	SELV equivalent
Galvanic isolation primary/secondary	3.75 kV ⁸⁾
Surge capability (L/N-Ground)	3 kV

1) Permitted voltage range

2) Full load at 230 V/Half load at 230 V

3) at 230 V, 50 Hz

4) Maximum

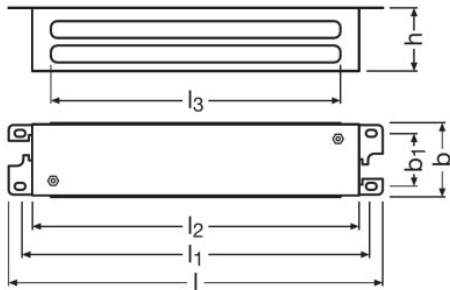
5) At 250 μ s

6) \pm 0.5 V

7) Partial load 12...120 W

8) SELV-equivalent

Dimensions & weight



Mounting hole spacing, length	246.0 mm
Product weight	1150.00 g
Cable cross-section, input side	0.83 mm ² ¹⁾
Cable cross-section, output side	0.83 mm ² ¹⁾
Wire preparation length, input side	8.0 mm
Wire preparation length, output side	8.0 mm
Length	258.0 mm
Width	51.2 mm
Height	44.5 mm

¹⁾ Flexible

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Ambient temperature range	-25...+55 °C
Maximum temperature at tc test point	85 °C ¹⁾
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ²⁾

¹⁾ Maximum at the T_c-point

²⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h ¹⁾
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¹⁾ At T_{case} = 75°C at T_c point / 10% failure rate

Capabilities

Product datasheet

Dimmable	No
Dimming interface	Not dimmable
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Intended for no-load operation	No
Suitable for fixtures with prot. class	I
Number of channels	1

Certificates & standards

Approval marks – approval	CE / CB / CCC / BIS
Standards	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to CISPR 15/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547
Protection class	I
Type of protection	IP64





Logistical data

Commodity code	850440829000
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	14-04-2022
Primary Article Identifier	4008321821263
Declaration No. in SCIP database	In work

Download Data

File	
	Addon Technical Information 350855_Data sheet_OTe 120110-27712 E
	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)
	Declarations of conformity EU Declaration of Conformity 3565780
	Installation/Operation notice 350856_Instruction sheet OTe 120_110-277 12 E

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
4008321821263	OTe 120/110...277/12 E	Shipping carton box 10	408 mm x 302 mm x 141 mm	17.37 dm ³	12459.00 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.