

OT 20/220...240/24

CV Power supplies 24 V



Areas of application

- Facades, public squares, cruise ships
- Signage
- Suitable for indoor and outdoor installations

Product family benefits

- Installation in cold and hot environments
- Very stable output power
- High electrical reversible short-circuit, overload, overtemperature protection
- Independent installation possible

Product family features

- Type of protection: IP20
- Wide operating temperature range: -20...+50 °C
- Lifetime: up to 50,000 h (temperature at max. t_c)

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V ¹⁾
Input voltage DC	-
Total harmonic distortion	150 %
Power factor λ	0.50 ²⁾
ECG efficiency	83 %
Device power loss	4.0 W ³⁾
Inrush current	17 A
Max. ECG no. on circuit breaker 10 A (B)	23
Max. ECG no. on circuit breaker 10 A (C)	-
Max. ECG no. on circuit breaker 16 A (B)	42
Max. ECG no. on circuit breaker 16 A (C)	-
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L-N)	1 kV
Nominal output voltage	24 V ⁴⁾
U-OUT (working voltage)	24 V
Nominal output power	20 W ⁵⁾
Galvanic isolation	SELV
Galvanic isolation primary/secondary	3 kV
Surge capability (L/N-Ground)	-
Output ripple Voltage (100 Hz)	-

¹⁾ Permitted voltage range

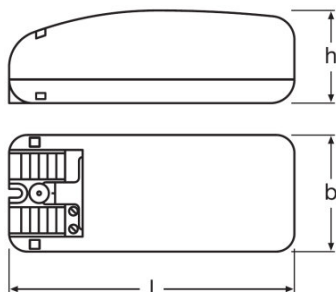
²⁾ Minimum

³⁾ Maximum

⁴⁾ ± 1.0 V

⁵⁾ Partial load 0.5...20 W

Dimensions & weight



Mounting hole spacing, length	-
Product weight	108.00 g
Cable cross-section, input side	0.75...1.5 mm ²
Cable cross-section, output side	0.5...1.5 mm ²
Wire preparation length, input side	10 mm
Wire preparation length, output side	10 mm
Cable/wire length, input side	-
Cable/wire length, output side	-
Length	109.0 mm
Width	50.0 mm
Height	35.0 mm

Colors & materials

Casing material	Plastic
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Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	70 °C
Max.housing temperature in case of fault	90 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	30000 h
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Additional product data

Product datasheet

Encapsulated	No
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Capabilities

Dimmable	No ¹⁾
Dimming interface	-
Dimming range	-
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
No-load proof	Yes
Suitable for fixtures with prot. class	II
Type of connection, output side	Screw terminal
Number of channels	1

¹⁾ With OPTOTRONIC dimmers

Certificates & standards

Approval marks – approval	CE / ENEC 10 / VDE / VDE-EMC / RCM
Standards	Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to EN 55015/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547
Protection class	II
Type of protection	IP20




Logistical data

Commodity code	850440829000
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Additional product information

- EMI pass verified with wire length of 2 m, from the ECG to the LED module at full load.
- Wiring longer than 2 m from ECG to LED module is possible, but site installation conditions may interfere with EMI with these longer cables. EMI is therefore not verified in this condition.
- For wires longer than 2 m, the appropriate cable cross section must be carefully selected to reduce voltage drop.

Download Data

File	
	User instruction OPTOTRONIC LED Power Supply
	Addon Technical Information 313233_ADDON TECHNICAL INFORMATION OT 20230-24024 VS20 OSRAM (GB)
	Brochures OPTOTRONIC constant-voltage LED power supplies and controls (EN)

Product datasheet



Certificates
OT ENEC 40038447 030720



Declarations of conformity
334871_Declaration of conformity – OT 20220-24024



Declarations of conformity
EU Declaration of Conformity 3578669

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4050300618111	OT 20/220...240/24	Shipping carton box 20	270 mm x 105 mm x 229 mm	6.49 dm ³	2396.00 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.