OT 20/220...240/24

OPTOTRONIC Power supplier 24 V



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)

Product family benefits

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

Areas of application

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

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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)]
Efficiency in full-load	83 % [3)]
Device power loss	4.0 W [4)]
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 / 24 V [5)]
U-OUT (working voltage)	24 V
Nominal output power	20 W [6)]
Maximum output power	20 W [7)]
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) at 230 V, 50 Hz

4) Maximum

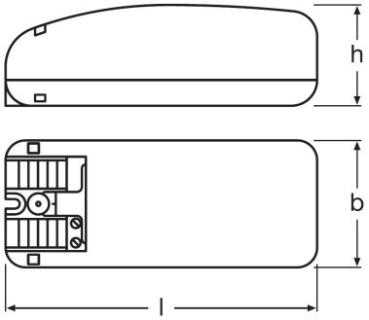
5) ±1.0 V

6) Partial load 0.5…20 W

7) at steady state

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Dimensions & weight



Mounting hole spacing, length	-
Product weight	108.00 g
Cable cross-section, input side	0.75…1.5 mm²
Cable cross-section, output side	0.5…1.5 mm²
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

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

Capabilities

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Dimmable	No
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	II
Type of connection, output side	Screw terminal
Number of channels	1

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	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	02-08-2023
Primary Article Identifier	4050300618111
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	358f82b4-6247-4365-a7f9-51531ea4c64f

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

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Product datasheet

	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)
	Certificates LED drivers EMC 40011668 300922
	Certificates OT ENEC 40038447 260623
	Declarations of conformity 334871_Declaration of conformity – OT 20220-24024
	Declarations of conformity EU Declaration of Conformity 3578669
	CAD data 3-dim OT 20 220-240 24V Indoor-3D stp file

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
4050300618111	OT 20/220...240/24	Shipping carton box 20	270 mm x 229 mm x 94 mm	5.81 dm^3	2337.00 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.

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