

PRODUCT DATASHEET

OT 50/220...240/24

CV Power supplies 24 V | CV Power supplies 24 V



Areas of application

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

Product benefits

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

Product features

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

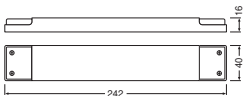
TECHNICAL DATA

Electrical data

Nominal wattage	58.00 W
Nominal output power	50 W ¹⁾
Nominal voltage	220...240 V
Nominal output voltage	24 V ²⁾
Input voltage AC	198...264 V ³⁾
Input voltage DC	176...274 V ⁴⁾
U-OUT (working voltage)	24 V
Nominal current	0.35 A ⁵⁾
Inrush current	45 A ⁶⁾
Mains frequency	50/60 Hz
Total harmonic distortion	< 20 %
Power factor λ	0.95 ⁷⁾
ECG efficiency	85 % ⁸⁾
Device power loss	8,0 W ⁹⁾
Max. ECG no. on circuit breaker 10 A (B)	12
Max. ECG no. on circuit breaker 16 A (B)	19
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L-N)	1 kV
Galvanic isolation	SELV

- 1) Partial load 0...50 W
2) +0.9/-0.5 V / Line ripple maximum ± 0.5 V
3) V_{AC} / Permitted voltage range
4) Permitted voltage range
5) At 230 V
6) $t_{width} = 80 \mu s$ (measured at 50 % i_{peak})
7) Full load at 230 V/Half load at 230 V
8) At full load and 230 V
9) Maximum

Dimensions & Weight



Length	242.00 mm
Width	40.00 mm
Height	16.00 mm
Cable cross-section, input side	0.75...1.5 mm ² ¹⁾
Cable cross-section, output side	0.5...1.5 mm ² ¹⁾
Wire preparation length, input side	10 mm
Wire preparation length, output side	10 mm
Product weight	290.00 g

¹⁾ Solid or flexible leads

Colors & materials

Casing material	Plastic
Body material	Plastic

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	95 °C
Max.housing temperature in case of fault	110 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h ¹⁾
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¹⁾ At T_{case} = 80°C at T_c point / 10% failure rate

Additional product data

Encapsulated	No
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Capabilities

Dimmable	No
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
No-load proof	Yes
Short-circuit protection	Automatic reversible
Max. cable length to lamp/LED module	10 m
Suitable for fixtures with prot. class	II
Type of connection, output side	Screw terminal

Certificates & Standards

Approval marks – approval	CE / CB / RCM / ENEC 18
Standards	Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to CISPR 15 / Acc. to IEC 61000-3-2 / Acc. to IEC 61547
Protection class	II
Type of protection	IP20






LOGISTICAL DATA

Temperature range at storage	-30...85 °C
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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

Documents and certificates		Document name
	User Instruction / Safety Instructions	343028_Instruction Sheet OT 50/220-240/24
	Declarations of conformity	728507_EU Declaration OT
	Declarations of conformity	3540710_EU Declaration of conformity OT 50/220-240/24
	Certificates	664761_ENEC mark approval_OT 50/24
	Certificates	664760_CEAG OT50

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899905566	Unpacked 1	242 mm x 19 mm x 39 mm	290.00 g	0.18 dm ³
4052899905597	Shipping box 20	288 mm x 134 mm x 248 mm	6522.00 g	9.57 dm ³

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.