PRODUCT DATASHEET
OT 250/220…240/24 DIM P

CV Power supplies 24 V with 1…10 V | CV Power supplies 24 V with 1…10 V



Areas of application

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

Product benefits

- Large range of products from 20 W to 250 W
- Installation in very cold and hot environments
- Very stable output power
- High electronical reversible short-circuit, overload, overtemperature protection
- Smart Power Supply: boosting power to turn on cold LEDs
- Independent installation possible
- Dimming range: 1…100 %

Product features

- DC mode functionality
- Type of protection: IP66 and IP67
- Surge protection: up to 4 kV (L-N) / 6 kV (L/N-PE)
- Wide operating temperature range: -30…+55 °C
- Lifetime: up to 50,000 h (temperature at max. t_c)
- Dimmable via fully isolated 1…10 V interface

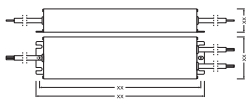
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TECHNICAL DATA

Electrical data

Nominal wattage	250.00 W
Nominal output power	250 W
Nominal voltage	220…240 V
Nominal output voltage	24.2 V
Input voltage AC	198…264 V
Input voltage DC	176…276 V
U-OUT (working voltage)	30 V
Inrush current	75 A
Mains frequency	0/60 Hz
Maximum total harmonic distortion	< 15 %
Power factor λ	0.95
ECG efficiency	92 %
Device power loss	20 W
Max. ECG no. on circuit breaker 10 A (B)	3
Max. ECG no. on circuit breaker 16 A (B)	8
Max. ECG no. on circuit breaker 25 A (B)	13
Surge capability (L/N-Ground)	6 kV
Surge capability (L-N)	4 kV
Galvanic isolation	SELV
Power loss in stand-by mode	< 0.5 W

Dimensions & Weight



Length	265.00 mm
Mounting hole spacing, length	250,0 mm
Width	68.00 mm
Height	40.00 mm
Cable cross-section, input side	1 mm^2
Cable cross-section, output side	1 mm^2
Wire preparation length, input side	8…10 mm
Wire preparation length, output side	8…10 mm
Product weight	1340.00 g

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Colors & materials

Casing material	Metal
Body material	Metal

Temperatures & operating conditions

Ambient temperature range	-30…+55 °C
Maximum temperature at tc test point	85 °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

Additional product data

Encapsulated	Yes

Capabilities

Dimmable	Yes
Dimming interface	1…10 V
Dimming range	1…100 %
Overheating protection	Yes
Overload protection	Yes
No-load proof	Yes
Short-circuit protection	Yes
Suitable for fixtures with prot. class	I
Type of connection, output side	Fixed connection (terminal)

Certificates & Standards

Approval marks – approval	ENEC / RCM / CCC / EAC
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 61000-3-3 / Acc. to EN 60598-1 / Acc. to EN 62384
Protection class	I
Type of protection	IP66/IP67

LOGISTICAL DATA

Temperature range at storage	-40…+85 °C

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DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	OPTOTRONIC® LED Power Supply
PDF	Addon technical information	Dimming table for OT (EN)
PDF	Declarations of conformity	EU Declaration of Conformity 3537796
PDF	Declarations of conformity	Attestation of Conformity No. E8A 18 01 84117 049
PDF	Declarations of conformity	EU Declaration of Conformity OT 24V P_DIMP
PDF	Declarations of conformity	Attestation of Conformity No. N8A 18 01 84117 054
PDF	Certificates	ENEC Certificate No. U6 18 01 84117 048
PDF	Certificates	CCC Certificate No. 2018011002043871
PDF	Certificates	CB Test Certificate No. SG PSB-LE-00906

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899545908	Folding box 1	326 mm x 88 mm x 51 mm	1385.00 g	1.46 dm^3
4052899545915	Shipping box 10	459 mm x 344 mm x 144 mm	14752.00 g	22.74 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.

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