

PRODUCT DATASHEET

OT 100/220...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

TECHNICAL DATA

Electrical data

| | |
|--|-------------|
| Nominal wattage | 106.00 W |
| Nominal output power | 100 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 | 60 A |
| Mains frequency | 0/60 Hz |
| Total harmonic distortion | < 15 % |
| Power factor λ | 0.95 |
| ECG efficiency | 90 % |
| Device power loss | 10 W |
| Max. ECG no. on circuit breaker 10 A (B) | 10 |
| Max. ECG no. on circuit breaker 16 A (B) | 16 |
| Max. ECG no. on circuit breaker 25 A (B) | 26 |
| 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 | 240.00 mm |
| Mounting hole spacing, length | 227,0 mm |
| Width | 50.00 mm |
| Height | 34.00 mm |
| Cable cross-section, input side | 1 mm ² |
| Cable cross-section, output side | 1 mm ² |
| Wire preparation length, input side | 90 mm |
| Wire preparation length, output side | 90 mm |
| Product weight | 765.00 g |

Colors & materials

| | |
|-----------------|-------|
| Casing material | Metal |
| Body material | Metal |

Temperatures & operating conditions

| | |
|--|------------------------|
| Ambient temperature range | -30...+55 °C |
| Maximum temperature at tc test point | 80 °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 | Cables |










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 |
|------------------------------|--------------|

DOWNLOAD DATA

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

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4052899545861 | Folding box 1 | 306 mm x 73 mm x 46 mm | 804.00 g | 1.03 dm ³ |
| 4052899545878 | Shipping box 10 | 384 mm x 324 mm x 134 mm | 8704.00 g | 16.67 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.