

OT 80/220...240/24 DIM P

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 voltage	220...240 V
Mains frequency	50...60 Hz
Input voltage AC	198...264 V ¹⁾
Total harmonic distortion	< 20 %
Power factor λ	0.90/0.95 ²⁾
ECG efficiency	87 % ³⁾
Device power loss	12 W ⁴⁾
Power loss in stand-by mode	<1,5 W
Inrush current	35 A ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	7
Max. ECG no. on circuit breaker 16 A (B)	10
Max. ECG no. on circuit breaker 25 A (B)	17
Surge capability (L-N)	3 kV
Nominal output voltage	24 V ⁶⁾
U-OUT (working voltage)	24 V
Nominal output power	80 W ⁷⁾
Galvanic isolation	SELV
Galvanic isolation primary/secondary	3.75 kV ⁸⁾

¹⁾ Permitted voltage range

²⁾ Minimum/Full load at 230 V/Half load at 230 V

³⁾ At full load and 230 V

⁴⁾ Maximum

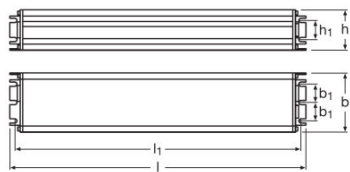
⁵⁾ At 360 μ s

⁶⁾ +1.0/-0.5 V

⁷⁾ Partial load 0...80 W

⁸⁾ SELV

Dimensions & weight



Length	250.0 mm
Width	50.0 mm
Height	34.0 mm
Mounting hole spacing, length	241.0 mm
Mounting hole spacing, width	14.0 mm
Product weight	900.00 g
Cable cross-section, input side	1.0 mm ² ¹⁾
Cable cross-section, output side	1.5 mm ² ¹⁾
Wire preparation length, input side	10...11 mm
Wire preparation length, output side	10...11 mm
Cable/wire length, control input	300 mm
Cable/wire length, input side	300 mm
Cable/wire length, output side	300 mm

¹⁾ Flexible

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Ambient temperature range	-25...+55 °C
Maximum temperature at tc test point	80 °C ¹⁾
Max.housing temperature in case of fault	100 °C
Permitted rel. humidity during operation	5...85 %

¹⁾ Maximum at the Tc-point

Lifespan

ECG lifetime	50000 h ¹⁾
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¹⁾ At T_{case} = 70°C at T_c point / 10% failure rate

Additional product data

Encapsulated	No
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Capabilities

Dimmable	Yes
Dimming interface	1...10 V ¹⁾
Dimming range	3...100 %
Dimming method	Pulse Width Modulation
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	Wires
Number of channels	1

¹⁾ Do not switch off by 1...10 V interface to avoid infringing the ErP regulations

Certificates & standards

Approval marks – approval	CE / CB / RCM / EAC / ENEC 18 / BIS
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 61000-3-3/Acc. to IEC 61547
Protection class	II
Type of protection	IP67

Logistical data

Temperature range at storage	-40...85 °C
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Download Data

File	
 Addon Technical Information 728639_Dimming table for OT (EN)	
 Brochures 730792_Light is universal - Easy installation of efficient complete systems (DE)	
 Brochures 730791_Light is universal - Easy installation of efficient complete systems (EN)	
 Brochures 493514_24V OPTOTRONIC outdoor drivers (GB)	
 Certificates 545965_ENEC certificate OT 80 220-240 24 DIM P	

Product datasheet



Declarations of conformity
728507_EU Declaration OT



Declarations of conformity
EU Declaration of Conformity 3537796



Installation/Operation notice
387994_Instruction Sheet OT 80220-24024 DIM P

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
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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.