

PRODUCT DATASHEET

DR DIM-PFM -100/220-240/24/P

LED DRIVER 1-10 V DIM PERFORMANCE | Constant voltage outdoor LED driver with 1-10 V dimming interface



Areas of application

- Suitable for indoor and outdoor installations
- Facade and building illumination
- Ideal for illuminating public spaces
- Bathrooms, kitchens and outdoor areas
- Offices, shopping centers, hospitals, restaurants, hotels

Product benefits

- Perfectly matched to 24 V LED flexible strips
- 5 years guarantee
- Very stable output power
- Quick and simple installation due to prewiring
- High efficiency and reliability
- Installation in very cold and hot environments

Product features

- Available in 20 W, 40 W, 60 W, 100 W, 150 W and 250 W
- Dimmable via 1...10 V dimming control
- Dimmable from 10...100 %
- Lifetime: up to 50,000 h (at max. tc temperature)
- Type of protection: IP66
- Operating temperature range at ta: -40...50 °C
- Supply voltage: 220...240 V
- Operating frequency: 50/60 Hz
- Surge protection: up to 6 kV (L-N), 6 kV (L/N-PE)
- Short-circuit and overload protection

TECHNICAL DATA

Electrical data

Nominal wattage	100.00 W
Nominal output power	100 W ¹⁾
Nominal voltage	220...240 V
Nominal output voltage	24 V ²⁾
Input voltage AC	198...264 V ³⁾
U-OUT (working voltage)	24 V
Type of current	DC
Nominal current	506 mA
Nominal output current	4170 mA ⁴⁾
Inrush current	46 A
Output ripple current (100 Hz)	3.69 %
Mains frequency	50...60 Hz
Total harmonic distortion	< 20 % ⁵⁾
Power factor λ	0.95 ⁶⁾
ECG efficiency	91 % ⁷⁾
Device power loss	9.5 W ⁸⁾
Max. ECG no. on circuit breaker 10 A (B)	13
Max. ECG no. on circuit breaker 16 A (B)	16
Max. ECG no. on circuit breaker 25 A (B)	25
Surge capability (L/N-Ground)	6 kV
Surge capability (L-N)	6 kV
Galvanic isolation	SELV

1) From 0 to 100 W

2) Maximum 24 V

3) Permitted voltage range

4) $\pm 10\%$

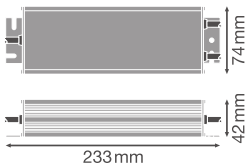
5) At full load, 220...240 V, 50 Hz

6) Full load at 230 V

7) At full load and 230 V

8) At maximum LED load of 100 W

Dimensions & Weight



Length	233.00 mm
Mounting hole spacing, length	215,0 mm
Width	74.00 mm
Height	42.00 mm
Cable cross-section, input side	1 mm ²
Cable cross-section, output side	1 mm ²
Prewired	Yes
Product weight	1190.00 g

Colors & materials

Product color	Aluminum
Casing material	Metal
Body material	Metal

Temperatures & operating conditions

Ambient temperature range	-40...+50 °C
Maximum temperature at tc test point	70 °C
Max.housing temperature in case of fault	110 °C
Temperature range in operation	-40...+50 °C
Permitted rel. humidity during operation	20...95 % ¹⁾

¹⁾ Maximum 56 days/year at 95%

Lifespan

ECG lifetime	50000 h ¹⁾
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¹⁾ At maximum T_c = 70°C / 10% failure rate

Additional product data

Encapsulated	Yes
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Capabilities

Dimmable	Yes
Dimming interface	1...10 V

Dimming range	10...100 %
Overheating protection	Yes
Overload protection	No
Short-circuit protection	Yes
Max. cable length to lamp/LED module	10 m
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	No
Type of connection, output side	Cables

Certificates & Standards

Approval marks – approval	CE / TUV
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 62384
Protection class	I
Type of protection	IP66

LOGISTICAL DATA

Temperature range at storage	-40...+80 °C
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DOWNLOAD DATA

Documents and certificates	
	User instruction
	Declarations Of Conformity CE

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075240070	Folding box 1	277 mm x 100 mm x 51 mm	1259.00 g	1.41 dm ³
4058075240087	Shipping box 10	294 mm x 218 mm x 283 mm	13061.00 g	18.14 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.

References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.