

# PRODUCT DATASHEET

## DR DIM-PFM -20/220-240/24/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                          | 20.00 W                   |
| Nominal output power                     | 20 W <sup>1)</sup>        |
| Nominal voltage                          | 220...240 V               |
| Nominal output voltage                   | 24 V <sup>2)</sup>        |
| Input voltage AC                         | 198...264 V <sup>3)</sup> |
| U-OUT (working voltage)                  | 24 V                      |
| Type of current                          | DC                        |
| Nominal current                          | 115 mA                    |
| Nominal output current                   | 830 mA <sup>4)</sup>      |
| Inrush current                           | 40 A                      |
| Output ripple current (100 Hz)           | 5.65 %                    |
| Mains frequency                          | 50...60 Hz                |
| Total harmonic distortion                | < 20 % <sup>5)</sup>      |
| Power factor $\lambda$                   | 0.90 <sup>6)</sup>        |
| ECG efficiency                           | 85 % <sup>7)</sup>        |
| Device power loss                        | 4.1 W <sup>8)</sup>       |
| Max. ECG no. on circuit breaker 10 A (B) | 14                        |
| Max. ECG no. on circuit breaker 16 A (B) | 18                        |
| Max. ECG no. on circuit breaker 25 A (B) | 29                        |
| Surge capability (L/N-Ground)            | 6 kV                      |
| Surge capability (L-N)                   | 6 kV                      |
| Galvanic isolation                       | SELV                      |

1) From 0 to 20 W

2) Maximum 24 V

3) Permitted voltage range

4)  $\pm 10\%$

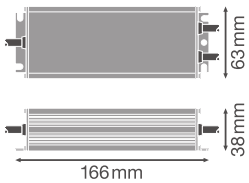
5) At full load, 220...240 V, 50 Hz

6) Full load at 230 V

7) At full load and 230 V

8) At maximum LED load of 20 W

### Dimensions & Weight



|                                  |                   |
|----------------------------------|-------------------|
| Length                           | 166.00 mm         |
| Mounting hole spacing, length    | 151.0 mm          |
| Width                            | 63.00 mm          |
| Height                           | 38.00 mm          |
| Cable cross-section, input side  | 1 mm <sup>2</sup> |
| Cable cross-section, output side | 1 mm <sup>2</sup> |
| Prewired                         | Yes               |
| Product weight                   | 645.00 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     | 65 °C                   |
| Temperature range in operation           | -40...+50 °C            |
| Permitted rel. humidity during operation | 20...95 % <sup>1)</sup> |

1) Maximum 56 days/year at 95%

Lifespan

|              |                       |
|--------------|-----------------------|
| ECG lifetime | 50000 h <sup>1)</sup> |
|--------------|-----------------------|

1) At maximum T<sub>c</sub> = 65°C / 10% failure rate

Additional product data

|              |     |
|--------------|-----|
| Encapsulated | Yes |
|--------------|-----|

Capabilities

|                   |            |
|-------------------|------------|
| Dimmable          | Yes        |
| Dimming interface | 1...10 V   |
| Dimming range     | 10...100 % |

|                                        |        |
|----------------------------------------|--------|
| Overheating protection                 | No     |
| Overload protection                    | No     |
| Short-circuit protection               | Yes    |
| Max. cable length to lamp/LED module   | 10 m   |
| Suitable for fixtures with prot. class | I / II |
| 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 /<br>Acc. to EN 61547 / Acc. to EN 61000-3-2 / Acc. to EN 62384 |
| Protection class          | II                                                                                                                            |
| Type of protection        | IP66                                                                                                                          |

### LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -40...+80 °C |
|------------------------------|--------------|

### Accessories Optional

| Product image                                                                       | Product name           | EAN           |
|-------------------------------------------------------------------------------------|------------------------|---------------|
|  | LS PFM -300/865/5/IP66 | 4058075236707 |
|  | LS PFM -300/830/5      | 4058075236424 |
|  | LS VAL -300/840/5      | 4058075296121 |
|  | LS VAL -300/827/5/IP65 | 4058075296183 |
|  | LS PFM -300/827/5      | 4058075236387 |
|  | LS PFM -300/865/5      | 4058075236585 |

| Product image                                                                      | Product name           | EAN           |
|------------------------------------------------------------------------------------|------------------------|---------------|
|  | LS VAL -300/840/5/IP65 | 4058075296244 |
|                                                                                    | LS VAL -300/827/5      | 4058075296060 |
|                                                                                    | LS VAL -300/830/5      | 4058075296091 |
|                                                                                    | LS VAL -300/865/5/IP65 | 4058075296275 |
|                                                                                    | LS PFM -300/830/5/IP66 | 4058075236660 |
|                                                                                    | LS PFM -300/840/5/IP66 | 4058075236806 |
|                                                                                    | LS VAL -300/865/5      | 4058075296152 |
|                                                                                    | LS PFM -300/827/5/IP66 | 4058075236622 |
|                                                                                    | LS PFM -300/840/5      | 4058075236523 |
|                                                                                    | LS VAL -300/830/5/IP65 | 4058075296213 |

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                         |
|------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------|
|  | User instruction / safety instructions | LED DRIVER DIM PERFORMANCE CV OUTDOOR |

| Documents and certificates                                                       |                            | Document name                        |
|----------------------------------------------------------------------------------|----------------------------|--------------------------------------|
|  | Legal information          | Informationstext 18 Abs 4 ElektroG   |
|  | Declarations of conformity | EU Declaration of Conformity 3581723 |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075239951 | Folding box<br>1             | 225 mm x 89 mm x 47 mm               | 696.00 g     | 0.94 dm <sup>3</sup>  |
| 4058075239968 | Shipping box<br>10           | 242 mm x 196 mm x 263 mm             | 7326.00 g    | 12.47 dm <sup>3</sup> |

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](http://www.ledvance.com/guarantee)

## DISCLAIMER

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