

# PRODUCT DATASHEET

## DR-PFM -60/220-240/24/P

LED DRIVER OUTDOOR PERFORMANCE | Constant voltage outdoor LED driver



### 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 30 W, 60 W, 100 W, 150 W and 250 W
- 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 4 kV (L-N) for 30W/60W, 6 kV (L-N) / 6 kV (L-N-PE) for 100W/150W/250W
- Short-circuit and overload protection

TECHNICAL DATA

Electrical data

|  |                           |
|--|---------------------------|
| Nominal wattage                          | 60.00 W                   |
| Nominal output power                     | 60 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                          | 314 mA                    |
| Nominal output current                   | 2500 mA <sup>4)</sup>     |
| Inrush current                           | 44 A                      |
| Output ripple current (100 Hz)           | 5.39 %                    |
| Mains frequency                          | 50...60 Hz                |
| Total harmonic distortion                | < 20 % <sup>5)</sup>      |
| Power factor $\lambda$                   | 0.93 <sup>6)</sup>        |
| ECG efficiency                           | 88 % <sup>7)</sup>        |
| Device power loss                        | 7.7 W <sup>8)</sup>       |
| Max. ECG no. on circuit breaker 10 A (B) | 13                        |
| Max. ECG no. on circuit breaker 16 A (B) | 17                        |
| 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                      |

1) From 0 to 60 W

2) Maximum 24 V

3) Permitted voltage range

4)  $\pm 10\%$

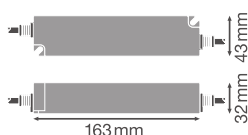
5) At full load, 220...240 V, 50 Hz

6) Full load at 230 V

7) At full load and 230 V

8) At maximum LED load of 60 W

Dimensions & Weight



|                                  |                   |
|----------------------------------|-------------------|
| Length                           | 163.00 mm         |
| Mounting hole spacing, length    | 150.3 mm          |
| Width                            | 43.00 mm          |
| Height                           | 32.00 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                   | 410.00 g          |

### Colors & materials

|                 |         |
|-----------------|---------|
| Product color   | White   |
| Casing material | Plastic |
| Body material   | Plastic |

### Temperatures & operating conditions

|  |                         |
|--|-------------------------|
| Ambient temperature range                | -40...+50 °C            |
| Maximum temperature at tc test point     | 90 °C                   |
| Temperature range in operation           | -40...+50 °C            |
| Permitted rel. humidity during operation | 20...95 % <sup>1)</sup> |

<sup>1)</sup> Maximum 56 days/year at 95%

### Lifespan

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

<sup>1)</sup> At maximum  $T_c = 90^\circ\text{C}$  / 10% failure rate

### Additional product data

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

### Capabilities

|  |              |
|--|--------------|
| Dimmable                               | No           |
| Dimming interface                      | Not dimmable |
| 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 -1000/830/5      | 4058075235984 |
|   | LS PFM -1500/830/5      | 4058075236226 |
|  | LS PFM -1000/865/5/IP66 | 4058075236103 |
|  | LS VAL -1000/840/5/IP65 | 4058075296480 |
|  | LS PFM -300/865/5       | 4058075236585 |
|  | LS PFM -600/827/5/IP66  | 4058075236943 |
|  | LS PFM -600/865/5/IP66  | 4058075237001 |
|  | LS VAL -600/840/5       | 4058075296930 |












| Product image   | Product name            | EAN           |
|---|-------------------------|---------------|
|    | LS VAL -1400/827/5/IP65 | 4058075296695 |
|    | LS VAL -300/827/5       | 4058075296060 |
|    | LS VAL -600/865/5       | 4058075296992 |
|    | LS PFM -1500/827/5/IP66 | 4058075236301 |
|    | LS PFM -1000/865/5      | 4058075236028 |
|   | LS SUP -500/965/5       | 4058075237100 |
|  | LS PFM -1000/827/5/IP66 | 4058075236042 |
|  | LS VAL -300/840/5/IP65  | 4058075296244 |
|  | LS SUP -500/930/5/IP67  | 4058075237285 |
|  | LS VAL -600/830/5       | 4058075296787 |
|  | LS VAL -300/830/5       | 4058075296091 |
|  | LS PFM -1500/840/5      | 4058075236240 |


| Product image   | Product name           | EAN           |
|---|------------------------|---------------|
|    | LS PFM -300/865/5/IP66 | 4058075236707 |
|    | LS SUP -500/940/5      | 4058075237087 |
|    | LS VAL -1400/840/5     | 4058075296909 |
|    | LS SUP -500/927/5/IP67 | 4058075237261 |
|    | LS SUP -500/927/5      | 4058075237049 |
|   | LS SUP -800/927/5/IP67 | 4058075237360 |
|  | LS PFM -300/827/5/IP66 | 4058075236622 |
|  | LS PFM -300/830/5/IP66 | 4058075236660 |
|  | LS SUP -500/960/5/IP67 | 4058075237346 |
|  | LS SUP -500/930/5      | 4058075237063 |
|  | LS PFM -300/830/5      | 4058075236424 |
|  | LS PFM -600/865/5      | 4058075236547 |

| Product image   | Product name            | EAN           |
|---|-------------------------|---------------|
|    | LS VAL -1000/865/5/IP65 | 4058075296510 |
|    | LS PFM -300/827/5       | 4058075236387 |
|    | LS VAL -300/830/5/IP65  | 4058075296213 |
|    | LS VAL -1000/827/5      | 4058075296305 |
|    | LS PFM -1500/830/5/IP66 | 4058075236325 |
|   | LS VAL -1400/830/5/IP65 | 4058075296725 |
|  | LS PFM -600/830/5/IP66  | 4058075236967 |
|  | LS SUP -500/940/5/IP67  | 4058075237322 |
|  | LS VAL -600/840/5/IP65  | 4058075296602 |
|  | LS SUP -800/927/5       | 4058075237186 |
|  | LS VAL -1000/865/5      | 4058075296398 |
|  | LS SUP -800/940/5/IP67  | 4058075237407 |

| Product image   | Product name            | EAN           |
|---|-------------------------|---------------|
|    | LS VAL -1000/840/5      | 4058075296367 |
|    | LS PFM -1000/840/5/IP66 | 4058075236080 |
|    | LS VAL -1400/830/5      | 4058075296879 |
|    | LS VAL -1400/840/5/IP65 | 4058075296756 |
|    | LS PFM -1000/840/5      | 4058075236004 |
|  | LS SUP -800/940/5       | 4058075237247 |
|  | LS VAL -1400/865/5      | 4058075296961 |
|  | LS VAL -1400/827/5      | 4058075296848 |
|  | LS PFM -600/827/5       | 4058075236400 |
|  | LS PFM -300/840/5       | 4058075236523 |
|  | LS VAL -300/827/5/IP65  | 4058075296183 |
|  | LS VAL -600/827/5/IP65  | 4058075296541 |





| Product image   | Product name            | EAN           |
|---|-------------------------|---------------|
|    | LS SUP -800/930/5/IP67  | 4058075237384 |
|    | LS VAL -300/865/5       | 4058075296152 |
|    | LS PFM -1500/865/5/IP66 | 4058075236363 |
|    | LS VAL -300/865/5/IP65  | 4058075296275 |
|    | LS SUP -800/930/5       | 4058075237223 |
|   | LS VAL -1000/830/5      | 4058075296336 |
|  | LS PFM -600/840/5       | 4058075236486 |
|  | LS PFM -1500/865/5      | 4058075236264 |
|  | LS VAL -300/840/5       | 4058075296121 |
|  | LS PFM -1500/840/5/IP66 | 4058075236349 |
|  | LS PFM -600/840/5/IP66  | 4058075236981 |
|  | LS VAL -600/830/5/IP65  | 4058075296572 |

| Product image   | Product name            | EAN           |
|---|-------------------------|---------------|
|    | LS VAL -1000/827/5/IP65 | 4058075296428 |
|    | LS VAL -600/827/5       | 4058075296664 |
|    | LS PFM -600/830/5       | 4058075236448 |
|    | LS PFM -1000/830/5/IP66 | 4058075236066 |
|    | LS PFM -300/840/5/IP66  | 4058075236806 |
|   | LS PFM -1000/827/5      | 4058075235960 |
|  | LS PFM -1500/827/5      | 4058075236141 |
|  | LS VAL -1400/865/5/IP65 | 4058075296817 |
|  | LS SUP -800/960/5/IP67  | 4058075237421 |
|  | LS VAL -1000/830/5/IP65 | 4058075296459 |
|  | LS VAL -600/865/5/IP65  | 4058075296633 |
|  | LS SUP -800/965/5       | 4058075237308 |

---

**DOWNLOAD DATA**

| Documents and certificates  | Document name                        |
|---|--------------------------------------|
|  User Instruction           | LED DRIVER OUTDOOR PFM               |
|  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               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075239913 | Folding box<br>1             | 221 mm x 69 mm x 41 mm               | 447.00 g     | 0.63 dm <sup>3</sup> |
| 4058075239920 | Shipping box<br>10           | 238 mm x 156 mm x 233 mm             | 4739.00 g    | 8.65 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**

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