

# PRODUCT DATASHEET

## DR PC-PFM -25/220-240/700

LED DRIVER PHASE-CUT PERFORMANCE | Constant current LED driver with phase-cut dimming interface



### Areas of application

- Suitable for LED luminaires and LED modules
- Applicable for luminaires of protection classes I and II
- For indoor SELV installations
- Offices, shopping centers, hospitals, restaurants, hotels

### Product benefits

- Enables installation with commonly used leading-edge and trailing-edge dimmers
- 5 years guarantee
- Slim housing for narrow installations
- High efficiency and reliability

### Product features

- Available in 13 W, 18 W, 25 W and 35 W
- Independent installation with optional Cable Clamp Kit
- Dimmable on the leading edge and trailing edge
- Dimmable from 10...100 %
- Lifetime: up to 50,000 h (at max. tc temperature)
- Type of protection: IP20
- Dedicated, constant output current
- Low ripple current < 5%
- Supply voltage: 220...240 V
- Operating frequency: 50/60 Hz
- Operated with less than 60 V: Safety extra-low voltage (SELV)
- Reversible overtemperature, overload, short-circuit and open-circuit protection

## TECHNICAL DATA

### Electrical data

|                                          |                           |
|------------------------------------------|---------------------------|
| Nominal output power                     | 25 W <sup>1)</sup>        |
| Nominal voltage                          | 220...240 V               |
| Nominal output voltage                   | 20...36 V <sup>2)</sup>   |
| Input voltage AC                         | 198...264 V <sup>3)</sup> |
| U-OUT (working voltage)                  | 60 V                      |
| Type of current                          | DC                        |
| Nominal current                          | 130 mA                    |
| Nominal output current                   | 700 mA <sup>4)</sup>      |
| Inrush current                           | 10 A                      |
| Output current tolerance                 | ±5 %                      |
| Output ripple current (100 Hz)           | < 5 %                     |
| Mains frequency                          | 50...60 Hz                |
| Total harmonic distortion                | 16 % <sup>5)</sup>        |
| Power factor $\lambda$                   | 0.95 <sup>6)</sup>        |
| ECG efficiency                           | 82 % <sup>7)</sup>        |
| Device power loss                        | 4,5 W <sup>8)</sup>       |
| Max. ECG no. on circuit breaker 10 A (B) | 40                        |
| Max. ECG no. on circuit breaker 16 A (B) | 65                        |
| Max. ECG no. on circuit breaker 25 A (B) | 101                       |
| Surge capability (L-N)                   | 1 kV                      |
| Galvanic isolation                       | SELV                      |

1) Partial load 14...25 W

2) Maximum 60 V

3) Permitted voltage range

4) ±10%

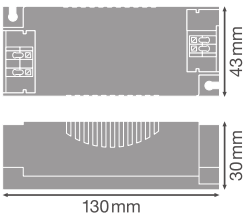
5) At full load, 220...240 V, 50 Hz

6) Full load at 230 V

7) At full load and 230 V

8) At maximum LED load of 25 W

### Dimensions & Weight



|                                      |                            |
|--------------------------------------|----------------------------|
| Length                               | 130.00 mm                  |
| Mounting hole spacing, length        | 121,0 mm                   |
| Width                                | 43.00 mm                   |
| Height                               | 30.00 mm                   |
| Cable cross-section, input side      | 0.75...1.5 mm <sup>2</sup> |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2</sup>  |
| Prewired                             | No                         |
| Wire preparation length, input side  | 8,0 mm                     |
| Wire preparation length, output side | 8,0 mm                     |
| Product weight                       | 126.00 g                   |

Colors & materials

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

Temperatures & operating conditions

|                                          |                         |
|------------------------------------------|-------------------------|
| Ambient temperature range                | -20...+50 °C            |
| Maximum temperature at tc test point     | 75 °C                   |
| Max.housing temperature in case of fault | 95 °C                   |
| Temperature range in operation           | -20...+50 °C            |
| Permitted rel. humidity during operation | 10...90 % <sup>1)</sup> |

<sup>1)</sup> Maximum 56 days/year at 90%

Lifespan

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

<sup>1)</sup> At maximum T<sub>c</sub> = 75°C / 10% failure rate

Additional product data

|              |    |
|--------------|----|
| Encapsulated | No |
|--------------|----|

## Capabilities

|                                        |               |
|----------------------------------------|---------------|
| Dimmable                               | Yes           |
| Dimming interface                      | Phase Cut     |
| Dimming range                          | 10...100 %    |
| Overheating protection                 | No            |
| Overload protection                    | Yes           |
| Short-circuit protection               | Yes           |
| Max. cable length to lamp/LED module   | 2,0 m         |
| Suitable for fixtures with prot. class | I / II        |
| Suitable for emergency lighting        | No            |
| Type of connection, output side        | Push terminal |

## Certificates &amp; Standards

|                           |                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | TUV / CE                                                                                                                      |
| 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        | IP20                                                                                                                          |

## LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -20...+75 °C |
|------------------------------|--------------|

## Accessories Optional

| Product image                                                                      | Product name           | EAN           |
|------------------------------------------------------------------------------------|------------------------|---------------|
|  | DR AY PC-PFM-CLAMP DUO | 4058075313170 |

## EQUIPMENT / ACCESSORIES

– Cable Clamp Kit to ensure proper strain relief

## DOWNLOAD DATA

| Documents and certificates                                                                                                | Document name                       |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|  User instruction / safety instructions | LED DRIVER PERFORMANCE CC PHASE CUT |
|  User instruction / safety instructions | DRIVER PHASE CUT                    |

| Documents and certificates                                                       |                            | Document name                                    |
|----------------------------------------------------------------------------------|----------------------------|--------------------------------------------------|
|  | Declarations of conformity | EU Declaration of Conformity 3581723             |
| Tender texts                                                                     |                            | Document name                                    |
|  | Tender documents           | LED DRIVER PHASE-CUT PERFORMANCE 25220 240700-EN |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075239852 | Folding box<br>1             | 46 mm x 34 mm x 133 mm               | 140.00 g     | 0.21 dm <sup>3</sup>  |
| 4058075239869 | Shipping box<br>10           | 247 mm x 151 mm x 91 mm              | 1593.00 g    | 3.39 dm <sup>3</sup>  |
| 4058075254824 | Shipping box<br>60           | 471 mm x 262 mm x 205 mm             | 10113.00 g   | 25.30 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.