

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 voltage | 220...240 V |
| Mains frequency | 50/60 Hz |
| Input voltage AC | 198...264 V ¹⁾ |
| Total harmonic distortion | 16 % ²⁾ |
| Power factor λ | 0.95 ³⁾ |
| ECG efficiency | 82 % ⁴⁾ |
| Device power loss | 4.5 W ⁵⁾ |
| Inrush current | 10 A ⁶⁾ |
| 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 |
| Nominal output voltage | 20...36 V ⁷⁾ |
| U-OUT (working voltage) | 60 V |
| Nominal output current | 700 mA ⁸⁾ |
| Output current tolerance | ±5 % |
| Output ripple current (100 Hz) | < 5 % |
| Nominal output power | 25 W ⁹⁾ |
| Galvanic isolation | SELV |
| Galvanic isolation primary/secondary | 3.75 kV |

¹⁾ Permitted voltage range

²⁾ At full load, 220...240 V, 50 Hz

³⁾ Full load at 230 V

⁴⁾ At full load and 230 V

⁵⁾ At maximum LED load of 25 W

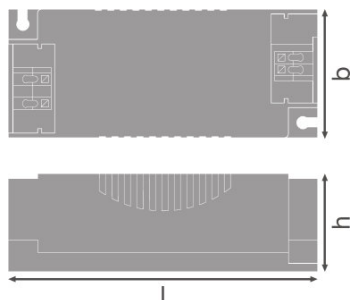
⁶⁾ $t_{\text{width}} = 250 \mu\text{s}$ (measured at 50 % I_{peak})

⁷⁾ Maximum 60 V

⁸⁾ ±10%

⁹⁾ Partial load 14...25 W

Dimensions & weight



| | |
|---|----------------------------|
| Length | 130.0 mm |
| Width | 43.0 mm |
| Height | 30.0 mm |
| Mounting hole spacing, length | 121.0 mm |
| Mounting hole spacing, width | 34.0 mm |
| Cable cross-section, input side | 0.75...1.5 mm ² |
| Cable cross-section, output side | 0.5...1.5 mm ² |
| Product weight | 126.00 g |
| Wire preparation length, input side | 8.0 mm |
| Wire preparation length, output side | 8.0 mm |
| Prewired | No |

Colors & materials

| | |
|----------------------|---------|
| 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 |
| Permitted rel. humidity during operation | 10...90 % ¹⁾ |

¹⁾ Maximum 56 days/year at 90%

Lifespan

| | |
|---------------------|-----------------------|
| ECG lifetime | 50000 h ¹⁾ |
|---------------------|-----------------------|

¹⁾ At maximum T_c = 75 °C / 10% failure rate

Additional product data

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

Capabilities

| | |
|---|---|
| Dimmable | Yes |
| Dimming interface | Phase Cut |
| Dimming range | 10...100 % |
| Dimming method | Trailing- or leading-edge phase control |
| 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 |
| Type of connection, output side | Push terminal |
| Suitable for no-load mode operation | Yes |

Certificates & standards

| | |
|----------------------------------|--|
| Approval marks – approval | TUV / CE |
| 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 | II |
| Type of protection | IP20 |

Logistical data

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

EQUIPMENT / ACCESSORIES

- Cable Clamp Kit to ensure proper strain relief

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075239869 | Shipping carton box 10 | 247 mm x 151 mm x 91 mm | 1593.00 g | 3.39 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.