

PRODUCT DATASHEET

DR PC-PFM -18/220-240/350

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	84 % ⁴⁾
Device power loss	3 W ⁵⁾
Inrush current	5 A ⁶⁾
Max. ECG no. on circuit breaker 10 A (B)	52
Max. ECG no. on circuit breaker 16 A (B)	84
Max. ECG no. on circuit breaker 25 A (B)	131
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Nominal output voltage	32...54 V ⁷⁾
U-OUT (working voltage)	60 V
Nominal output current	350 mA ⁸⁾
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 5 %
Nominal output power	18 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 19 W

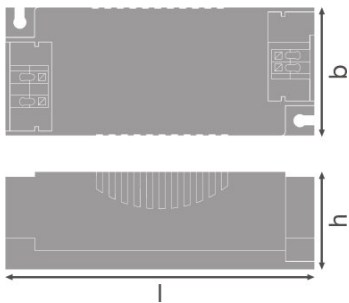
⁶⁾ $t_{\text{width}} = 250 \mu\text{s}$ (measured at 50 % I_{peak})

⁷⁾ Maximum 60 V

⁸⁾ ±10%

⁹⁾ Partial load 11...19 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 mm²
Cable cross-section, output side	0.5...1.5 mm²
Product weight	123.50 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	70 °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 = 70°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
4058075239845	Shipping carton box 10	247 mm x 151 mm x 91 mm	1563.00 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.