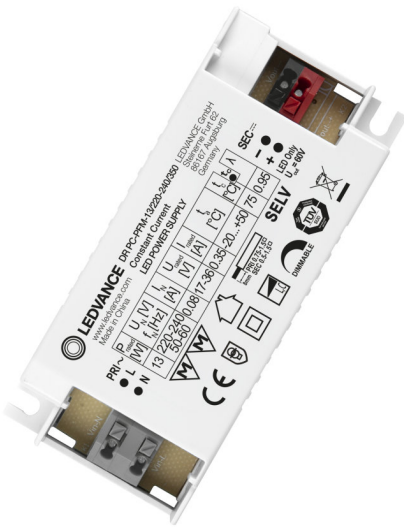


PRODUCT FAMILY DATASHEET

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

Product description	Nominal voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor λ	ECG efficiency	Device power loss
DR PC-PFM -13/220-240/350	220...240 V	50/60 Hz	198...264 V ¹⁾	18 % ²⁾	0.95 ³⁾	79 % ⁴⁾	2.6 W ⁵⁾
DR PC-PFM -18/220-240/350	220...240 V	50/60 Hz	198...264 V ¹⁾	16 % ²⁾	0.95 ³⁾	84 % ⁴⁾	3 W ¹⁰⁾
DR PC-PFM -25/220-240/700	220...240 V	50/60 Hz	198...264 V ¹⁾	16 % ²⁾	0.95 ³⁾	82 % ⁴⁾	4.5 W ¹²⁾
DR PC-PFM -35/220-240/700	220...240 V	50/60 Hz	198...264 V ¹⁾	18 % ²⁾	0.95 ³⁾	87 % ⁴⁾	4.6 W ¹⁴⁾

Product description	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L-N)
DR PC-PFM -13/220-240/350	5 A ⁶⁾	81	130	203	0.5 kV
DR PC-PFM -18/220-240/350	5 A ⁶⁾	52	84	131	0.5 kV
DR PC-PFM -25/220-240/700	10 A ⁶⁾	40	65	101	1 kV
DR PC-PFM -35/220-240/700	10 A ⁶⁾	31	50	78	1 kV

Product description	Nominal output voltage	U-OUT (working voltage)	Nominal output current	Output current tolerance	Output ripple current (100 Hz)
DR PC-PFM -13/220-240/350	17...36 V ⁷⁾	60 V	350 mA ⁸⁾	±5 %	< 5 %
DR PC-PFM -18/220-240/350	32...54 V ⁷⁾	60 V	350 mA ⁸⁾	±5 %	< 5 %
DR PC-PFM -25/220-240/700	20...36 V ⁷⁾	60 V	700 mA ⁸⁾	±5 %	< 5 %
DR PC-PFM -35/220-240/700	30...50 V ⁷⁾	60 V	700 mA ⁸⁾	±5 %	< 5 %

Product description	Nominal output power	Galvanic isolation	Galvanic isolation primary/secondary
DR PC-PFM -13/220-240/350	13 W ⁹⁾	SELV	3.75 kV
DR PC-PFM -18/220-240/350	18 W ¹¹⁾	SELV	3.75 kV
DR PC-PFM -25/220-240/700	25 W ¹³⁾	SELV	3.75 kV
DR PC-PFM -35/220-240/700	35 W ¹⁵⁾	SELV	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 13 W

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

⁷⁾ Maximum 60 V

⁸⁾ ±10%

⁹⁾ Partial load 6...13 W

¹⁰⁾ At maximum LED load of 19 W

¹¹⁾ Partial load 11...19 W

¹²⁾ At maximum LED load of 25 W

¹³⁾ Partial load 14...25 W

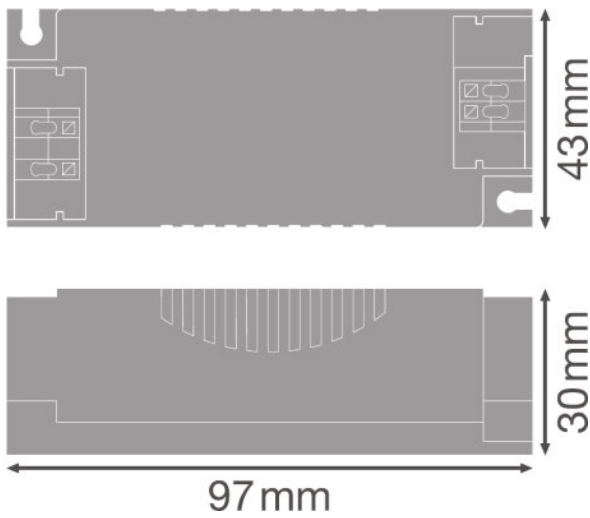
¹⁴⁾ At maximum LED load of 35 W

¹⁵⁾ Partial load 21...35 W

Dimensions & weight

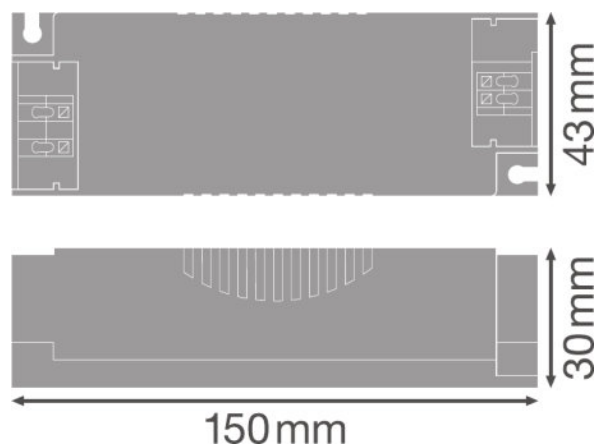
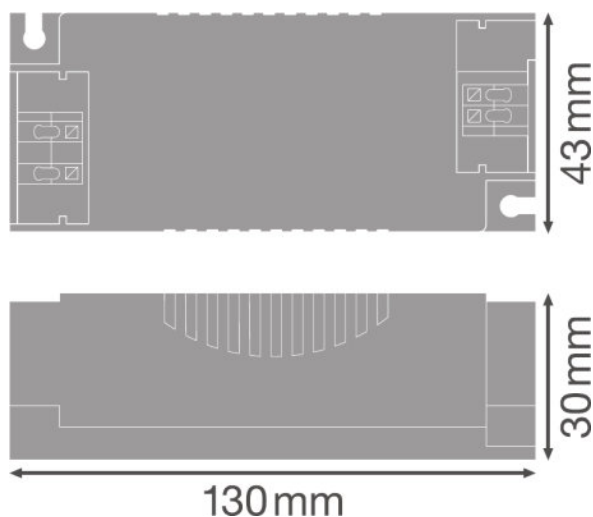
Product description	Length	Width	Height
DR PC-PFM -13/220-240/350	97.0 mm	43.0 mm	30.0 mm
DR PC-PFM -18/220-240/350	130.0 mm	43.0 mm	30.0 mm
DR PC-PFM -25/220-240/700	130.0 mm	43.0 mm	30.0 mm
DR PC-PFM -35/220-240/700	150.0 mm	43.0 mm	30.0 mm

Product line drawing



DR PC-PFM -13/220-240/350

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



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

DR PC-PFM -35/220-240/700

Colors & materials

Product description	Body material
DR PC-PFM -13/220-240/350	Plastic
DR PC-PFM -18/220-240/350	Plastic
DR PC-PFM -25/220-240/700	Plastic
DR PC-PFM -35/220-240/700	Plastic

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Permitted rel. humidity during operation
DR PC-PFM -13/220-240/350	-20...+50 °C	75 °C	95 °C	10...90 % ¹⁾
DR PC-PFM -18/220-240/350	-20...+50 °C	70 °C	95 °C	10...90 % ¹⁾
DR PC-PFM -25/220-240/700	-20...+50 °C	75 °C	95 °C	10...90 % ¹⁾
DR PC-PFM -35/220-240/700	-20...+50 °C	85 °C	95 °C	10...90 % ¹⁾

¹⁾ Maximum 56 days/year at 90%

Lifespan

Product description	ECG lifetime
DR PC-PFM -13/220-240/350	50000 h ¹⁾
DR PC-PFM -18/220-240/350	50000 h ²⁾
DR PC-PFM -25/220-240/700	50000 h ¹⁾
DR PC-PFM -35/220-240/700	50000 h ³⁾

¹⁾ At maximum $T_c = 75^\circ\text{C}$ / 10% failure rate

2) At maximum $T_c = 70^\circ\text{C}$ / 10% failure rate

3) At maximum $T_c = 85^\circ\text{C}$ / 10% failure rate

Additional product data

Product description	Encapsulated
DR PC-PFM -13/220-240/350	No
DR PC-PFM -18/220-240/350	No
DR PC-PFM -25/220-240/700	No
DR PC-PFM -35/220-240/700	No

Capabilities

Product description	Dimmable	Dimming interface	Dimming range	Dimming method
DR PC-PFM -13/220-240/350	Yes	Phase Cut	10...100 %	Trailing- or leading-edge phase control
DR PC-PFM -18/220-240/350	Yes	Phase Cut	10...100 %	Trailing- or leading-edge phase control
DR PC-PFM -25/220-240/700	Yes	Phase Cut	10...100 %	Trailing- or leading-edge phase control
DR PC-PFM -35/220-240/700	Yes	Phase Cut	10...100 %	Trailing- or leading-edge phase control

Product description	Overheating protection	Overload protection	Short-circuit protection	Max. cable length to lamp/LED module
DR PC-PFM -13/220-240/350	No	Yes	Yes	2.0 m
DR PC-PFM -18/220-240/350	No	Yes	Yes	2.0 m
DR PC-PFM -25/220-240/700	No	Yes	Yes	2.0 m
DR PC-PFM -35/220-240/700	No	Yes	Yes	2.0 m

Product description	Suitable for fixtures with prot. class	Type of connection, output side	Suitable for no-load mode operation
DR PC-PFM -13/220-240/350	I / II	Push terminal	Yes
DR PC-PFM -18/220-240/350	I / II	Push terminal	Yes
DR PC-PFM -25/220-240/700	I / II	Push terminal	Yes
DR PC-PFM -35/220-240/700	I / II	Push terminal	Yes

Certificates & standards

Product description	Approval marks – approval
DR PC-PFM -13/220-240/350	TUV / CE
DR PC-PFM -18/220-240/350	TUV / CE
DR PC-PFM -25/220-240/700	TUV / CE
DR PC-PFM -35/220-240/700	TUV / CE

Product description	Standards	Protection class	Type of protection
DR PC-PFM -13/220-240/350	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	II	IP20

Product description	Standards	Protection class	Type of protection
DR PC-PFM -18/220-240/350	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	II	IP20
DR PC-PFM -25/220-240/700	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	II	IP20
DR PC-PFM -35/220-240/700	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	II	IP20

Logistical data

Product description	Temperature range at storage
DR PC-PFM -13/220-240/350	-20...+75 °C
DR PC-PFM -18/220-240/350	-20...+75 °C
DR PC-PFM -25/220-240/700	-20...+75 °C
DR PC-PFM -35/220-240/700	-20...+75 °C

EQUIPMENT / ACCESSORIES

- Cable Clamp Kit to ensure proper strain relief

APPLICATION ADVICE

For more detailed application information and graphics please see product datasheet.

SALES AND TECHNICAL SUPPORT

Sales and Technical Support www.ledvance.com

COUNTRY SPECIFIC INFORMATION

Product description	Product code	METEL-Code	SEG number	STK number	UK Org
DR PC-PFM -13/220-240/350	4058075239814	-	7981954	4031415	-
DR PC-PFM -18/220-240/350	4058075239838	-	7981955	4031416	-
DR PC-PFM -25/220-240/700	4058075239852	-	7981956	4031417	-
DR PC-PFM -35/220-240/700	4058075239876	-	7981957	4031418	-

DOWNLOAD DATA

File

	User instruction LED DRIVER PERFORMANCE CC PHASE CUT
	Product Datasheet DR PC-PFM-13220-240350
	Declarations of conformity EU Declaration of Conformity 3581723
	Product Datasheet DR PC-PFM-18220-240350
	Product Datasheet DR PC-PFM-25220-240700
	Product Datasheet DR PC-PFM-35220-240700

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075239821	Shipping carton box 10	247 mm x 118 mm x 91 mm	1198.00 g	2.65 dm ³
4058075239845	Shipping carton box 10	247 mm x 151 mm x 91 mm	1563.00 g	3.39 dm ³
4058075239869	Shipping carton box 10	247 mm x 151 mm x 91 mm	1593.00 g	3.39 dm ³
4058075239883	Shipping carton box 10	247 mm x 171 mm x 91 mm	2196.00 g	3.84 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.

ACCESSORIES OPTIONAL

Product description	Accessory name	Accessory code
DR PC-PFM -13/220-240/350	LED DRIVER Cable Clamp, PC-PFM-CLAMP DUO	▶ 4058075313187
DR PC-PFM -18/220-240/350	LED DRIVER Cable Clamp, PC-PFM-CLAMP DUO	▶ 4058075313187
DR PC-PFM -25/220-240/700	LED DRIVER Cable Clamp, PC-PFM-CLAMP DUO	▶ 4058075313187
DR PC-PFM -35/220-240/700	LED DRIVER Cable Clamp, PC-PFM-CLAMP DUO	▶ 4058075313187

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.