# 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 overlaod protection

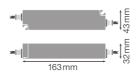
# **TECHNICAL DATA**

# **Electrical data**

Nominal output power         60 W ¹)           Nominal voltage         220240 V           Nominal output voltage         24 V ²)           Input voltage AC         198264 V ³)           U-OUT (working voltage)         24 V           Type of current         DC           Nominal current         314 mA           Nominal output current         2500 mA ⁴)           Inrush current         44 A           Output ripple current (100 Hz)         5.39 %           Mains frequency         5060 Hz           Total harmonic distortion         20 % ²)           Power factor λ         0.93 °)           ECG efficiency         88 % ¬)           Device power loss         7.7 W ³)           Max. ECG no. on circuit breaker 10 A (8)         13           Max. ECG no. on circuit breaker 16 A (8)         17           Max. ECG no. on circuit breaker 25 A (8)         26           Surge capability (L/N-Ground)         6 kV           Surge capability (L/N)-Ground)         4 kV           Galvanic isolation         5ELV	Nominal wattage	60.00 W
Nominal output voltage         24 V <sup>2</sup> )           Input voltage AC         198264 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         5060 Hz           Total harmonic distortion         < 20 % <sup>5</sup> )           Power factor λ         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	Nominal output power	60 W <sup>1)</sup>
Input voltage AC U-OUT (working voltage) 24 V  Type of current DC Nominal current 314 mA Nominal output current 2500 mA <sup>4)</sup> Inrush current Output ripple current (100 Hz) 5.39 % Mains frequency 5060 Hz Total harmonic distortion 200 % <sup>5)</sup> Power factor λ CG efficiency 88 % <sup>7)</sup> Device power loss 7.7 W <sup>8)</sup> Max. ECG no. on circuit breaker 10 A (B) Max. ECG no. on circuit breaker 25 A (B) Surge capability (L/N-Ground) Sulve (100 Hz) 14 V Surge capability (L-N) 15 V V V V V V V V V V V V V V V V V V V	Nominal voltage	220240 V
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Type of current  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  5060 Hz  Total harmonic distortion  <20 % <sup>5)</sup> Power factor λ  ECG efficiency  88 % <sup>7)</sup> Device power loss  7.7 W <sup>8)</sup> 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-Ground)  6 kV  Surge capability (L-N)  4 kV	Input voltage AC	198264 V <sup>3)</sup>
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Total harmonic distortion< 20 % 5)Power factor λ0.93 6)ECG efficiency88 % 7)Device power loss7.7 W 8)Max. ECG no. on circuit breaker 10 A (B)13Max. ECG no. on circuit breaker 16 A (B)17Max. ECG no. on circuit breaker 25 A (B)26Surge capability (L/N-Ground)6 kVSurge capability (L-N)4 kV	Output ripple current (100 Hz)	5.39 %
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Surge capability (L/N-Ground) 6 kV Surge capability (L-N) 4 kV	Max. ECG no. on circuit breaker 16 A (B)	17
Surge capability (L-N) 4 kV	Max. ECG no. on circuit breaker 25 A (B)	26
	Surge capability (L/N-Ground)	6 kV
Galvanic isolation SELV	Surge capability (L-N)	4 kV
	Galvanic isolation	SELV

- 1) From 0 to 60 W
- 2) <sub>Maximum 24 V</sub>
- 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 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 mm²
Cable cross-section, output side	1 mm²
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	2095 % <sup>1)</sup>

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

# Lifespan

ECG lifetime	50000 h <sup>1)</sup>
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<sup>1)</sup> At maximum  $T_c = 90$ °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	1711
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 / Acc. to EN 61547 / Acc. to EN 61000-3-2 / Acc. to EN 62384	
Protection class	П	
Type of protection	IP66	

# **LOGISTICAL DATA**

Temperature range at storage	-40+80 °C

## **DOWNLOAD DATA**

	Documents and certificates
PDF	User instruction
PDF	Declarations Of Conformity CE

## **LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075239913	Folding box 1	221 mm x 69 mm x 41 mm	447.00 g	0.63 dm <sup>3</sup>
4058075239920	Shipping box 10	238 mm x 156 mm x 233 mm	4739.00 g	8.65 dm³

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.