

# PRODUCT DATASHEET

## LS P AC 1200 830 50M IP66

LED STRIP P HIGH VOLTAGE 230V | LED strips with 1300 lm/m for 230 V AC mains direct supply in 50 m length



### Areas of application

- General indoor illumination
- General outdoor illumination
- Industry and construction site
- Offices, retail outlets and conference rooms
- Architecture lighting
- Decorative illumination

### Product benefits

- Great scope of design options due to 50 m long and flexible LED strips
- Easy mounting on many smooth surfaces thanks to self-adhesive tape
- Maximum flexibility due to large range of accessories with integrated over-current protection (3.15A)
- Simple connection thanks to integrated cables with fast twist lock connectors
- Suitable for use in damp conditions thanks to high type of protection

### Product features

- Direct power supply with 220-240V AC mains
- Flexible and cuttable LED strip
- Smallest cuttable unit: 100 mm
- Lifetime (L70/B50): up to 50,000 h at Ta: 45°C
- Luminous flux: 1300 lm/m
- Prewired LED strip with 200 mm long fast twist lock connector for 220-240V AC mains supply connection
- Type of protection: IP66

## TECHNICAL DATA

### Electrical data

Nominal wattage	550.00 W <sup>1)</sup>
Construction wattage	550.00 W <sup>1)</sup>
Nominal wattage per meter	12 W <sup>2)</sup>
Nominal voltage	220...240 V
Type of current	AC/DC
Nominal current	2400.000 mA <sup>3)</sup>
Inrush current	12 A
Mains frequency	50/60 Hz
Power factor $\lambda$	> 0.90
Max. ECG no. on circuit breaker 10 A (B)	3
Max. ECG no. on circuit breaker 25 A (B)	8

<sup>1)</sup> W (50m) AC: 550 DC: 510

<sup>2)</sup> W (1m) AC: 12 DC: 10

<sup>3)</sup> mA (50m) AC: 2400 DC: 2230

### Photometrical data

Luminous efficacy	108 lm/W <sup>1)</sup>
Luminous flux	58500 lm <sup>2)</sup>
Luminous flux per meter	1300 lm <sup>3)</sup>
Color temperature	3000 K
Color rendering index Ra	> 80
Light color (designation)	Warm White
Standard deviation of color matching	6 sdc <sub>m</sub>

<sup>1)</sup> lm/W: AC: 108 DC: 139

<sup>2)</sup> lm (50m) AC: 58500 DC: 62550

<sup>3)</sup> lm (1m) AC: 1300 DC: 1390

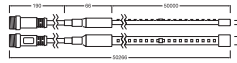
### Light technical data

Beam angle	120 °
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### LED MODULE INFORMATION

Number of LEDs per meter	120
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### Dimensions & Weight



Length	50000.00 mm
Length – smallest unit	100 mm
Cable length	266.000
Width	12.00 mm
Height	4.50 mm
Product weight	3470.00 g

### Colors & materials

Product color	Transparent
Body material	Silicone

### Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Temperature range in operation	-20...+45 °C
Permitted rel. humidity during operation	0...93 %

### Lifespan

Nominal lamp life time	50000 h
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### Additional product data

Product remark	Suitable for DC input only in combination with LED DRIVER - DR P 500W 220-240V 215V P
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### Capabilities

Dimmable	No
Dimming interface	Not dimmable
Lowest bending radius	30 mm
Self-adhesive	Yes

### Certificates & Standards



Approval marks – approval	CE / UKCA / EAC / DEKRA
Protection class	II
Type of protection	IP66
Energy class of contained light source	E

### LOGISTICAL DATA

Temperature range at storage

-20...+80 °C

**Accessories Mandatory**

Product image	Product name	EAN
	LS AY AC-12 SMB	4058075844841
	LS AY AC-CSW P2 100 P	4058075844766
	LS AY AC PLUG UK	4058075844827
	LS AY AC-CP P2 300 P	4058075844780
	LS AY AC PLUG EU	4058075844803
	LS AY AC-CD P2 200 P	4058075844742
	DR P 500W 220-240V 215V P	4058075844728

**EQUIPMENT / ACCESSORIES**

- Connectors for several mounting options available

**Safety advice**

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- Disconnect mains before installation.






**ADDITIONAL PRODUCT INFORMATION**

- All the technical parameters apply to the entire LED module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical

parameters of an individual product; individual products may vary from the typical values.

- All LED strips have a self-adhesive tape on the reverse side. LED strips can be attached to suitable materials, e.g. aluminum profiles. The surface of the material must be free of grease, oil, silicone and dirt particles. The adhesive tape can be used only one time, if the LED strip will be removed from the mounting surface, there could be a damage of the LED strips and the mounting material. The surface temperature of the mounting material should be in the temperature range of 18°C...35°C. Complete adhesion takes up to 72 h.
- LED strips are designed for static installation. Vibrations, respective torsion and elongation/compression must be considered.
- Galvanic Insulation between LED strip and mounting surface must be ensured. This Insulation is needed especially in the area of connections or cut ends.
- In a wide temperature range operation field (e.g. outdoor installation) and a LED strip length with more than 2m suitable mounting surface is required. To avoid stress due to mismatch in expansion of the different materials, there should be an extra thicker adhesive tape between LED strip and mounting surface. Additionally, the LED strip should have enough space for thermal expansion at higher temperatures.
- Compensation due to chemical corrosion is excluded. A suitable protection against corrosive agents such as moisture, condensation etc. must be provided. Hydrogen sulfide (H2S) will cause an accelerated corrosion which leads to shortened lifetime or premature failure.
- Installation of the LED strip has to be done by a qualified electrician.
- Handle with care to avoid mechanical product damage
- If the maximum operating and storage temperature ratings will be exceeded, the expected lifetime will be reduced or even the LED strip will be destroyed. It is not allowed to operate the LED strip over the specified Tc temperature (acc. EN 60598-1 under steady state conditions)
- It is not allowed to exceed the maximum operation voltage. This could cause a hazardous overload and will destroy the LED strip.
- The applicable electrical and safety standards have to be maintained for a LED strip installations
- In installations of LED strips ESD safety must be taken in account. Adequate precautions during installation and operation for the products are required.
- To avoid a damage of the LED strip, the unmounted LED strip should be handled and stored only in the original LEDVANCE packaging (wheel / ESD bag). Repacking is not allowed. Cutted IP 6x LED strips can be stored only with mounted endcaps.

**DOWNLOAD DATA**

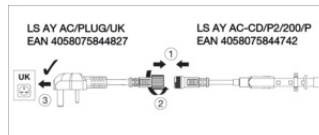
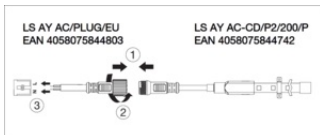
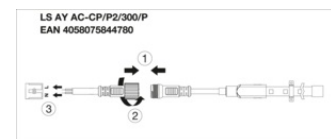
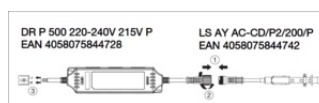
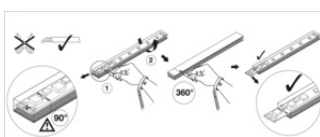
Documents and certificates		Document name
	User instruction / safety instructions	UI_LED STRIP_HV
	Legal information	LSI LED Strip
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	Safety Insert G11215928
	Declarations of conformity	LS LUM
	Declarations of conformity UKCA	LS LUM
Photometric and lighting design files		Document name
	LDT file (Eulumdat)	LS P AC 1200 830 1M IP66
	LDT file (Eulumdat)	LS P DC 1200 830 1M IP66
Tender texts		Document name
	Tender documents	LED STRIP P HIGH VOLTAGE 230V 1200 830 50M IP66-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075844667	Folding box 1	271 mm x 271 mm x 175 mm	4195.00 g	12.85 dm <sup>3</sup>
4058075844674	Shipping box 2	292 mm x 292 mm x 359 mm	8977.00 g	30.61 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.

ADDITIONAL CATALOG INFORMATION



DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.