PRODUCT DATASHEET
LS P AC 1300 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



PERFOR-
MANCE
CLASS

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

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TECHNICAL DATA

Electrical data

Nominal wattage	550.00 W [1)]
Construction wattage	12.00 W [1)]
Nominal wattage per meter	12 W [2)]
Nominal voltage	220…240 V
Type of current	AC/DC
Nominal current	2400 mA [3)]
Inrush current	12 A
Mains frequency	50/60 Hz
Power factor λ	> 0.90
Max. ECG no. on circuit breaker 10 A (B)	3
Max. ECG no. on circuit breaker 25 A (B)	8

1) W (50m) AC: 550 DC: 510
2) W (1m) AC: 12 DC: 10
3) mA (50m) AC: 2400 DC: 2230

Photometrical data

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

1) lm/W: AC: 108 DC: 139
2) lm (50m) AC: 58500 DC: 62550
3) lm (1m) AC: 1300 DC: 1390

Light technical data

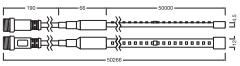
Beam angle	120 °

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	69.4 g [1)]

1) Product weight 50m 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

Additional product data

Product remark	Suitable for DC input only in combination with LED DRIVER - DR P 500W 220-240V 215V P / EAN10 represents a length of 1 meter of LED strip out of the entire 50 m role. The minimum order quantity for EAN10 is 50 pieces and a multiple of 50. / Available from April 2025

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

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Type of protection	IP66
Energy class of contained light source	E
Salt mist resistance acc. IEC 60068-2-52	Yes
UV resistance acc. IEC 60068-2-5	Yes

LOGISTICAL DATA

Temperature range at storage	-20…+80 °C

Required Accessories and Components

Product image	Product name	EAN
	LS AY AC-CD P2 200 IP66	4099854875571
	LS AY AC-CSW P2 100 IP66	4099854875618
	LS AY AC-CP P2 300 IP66	4099854875632
	LS AY AC PLUG EU	4058075844803
	LS AY AC PLUG UK	4058075844827
	LS AY AC-12 SMB	4058075844841
	DR P 500W 220-240V 215V P	4058075844728
	LS AY AC-CP P2 300 P	4058075844780
	LS AY AC-CD P2 200 P	4058075844742

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Product image	Product name	EAN
	LS AY AC-CSW P2 100 P	4058075844766

Accessories Optional

Product image	Product name	EAN
	LS AY -PW01/U/26X8/14/1	4058075278103
	LS AY -PW01/U/26X8/14/2	4058075401440
	LS AY -PW02/UW/39X26/14/1	4058075278134
	LS AY -PW02/UW/39X26/14/2	4058075401471
	LS AY -PW03/U/26X26/14/1	4058075278165
	LS AY -PW03/U/26X26/14/2	4058075401501
	LS AY -PF03/UW/25X7/12/1	4058075278257
	LS AY -PF03/UW/25X7/12/2	4058075401594
	LS AY -PF04/U/17X7/12/1	4058075278288
	LS AY -PF04/U/17X7/12/2	4058075401624

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Product image	Product name	EAN
	LS AY -PM01/UW/21,5X12/10/1	4058075278318
	LS AY -PM01/UW/21,5X12/10/2	4058075401655
	LS AY -PM04/UW/23X15,5/10/1	4058075278400
	LS AY -PM04/UW/23X15,5/10/2	4058075401747
	LS AY -PM05/U/17,5X14,5/10/1	4058075279278
	LS AY -PM05/U/17,5X14,5/10/2	4058075401778
	LS AY -PM06/E/18X18/12/1	4058075279308
	LS AY -PM06/E/18X18/12/2	4058075401808
	LS AY -PW04/U/25.5X25.5/13/1	4099854681790
	LS AY -PW04/U/25.5X25.5/13/2	4099854681820

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.

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- Do not connect the rope light to the supply while it is wound onto a reel. Do not use the lightstrip when covered or recessed into a surface. The string of lights may not be operated within the packaging. Do not open the lightstrip.
- Do not open or cut the rope light.
- WARNING – this rope light must not be used without all gaskets being in place.

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 handelt and stored only in the orignial 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
PDF	User instruction / safety instructions	G11288780 LED STRIP HV 230V PFM
PDF	Legal information	LSI LED STRIP HIGH VOLTAGE 230V
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	G11294843 Safety Insert
PDF	Legal information	G11294842 Legal Insert
PDF	Declarations of conformity	LS P AC 1300
PDF	Declarations of conformity UKCA	LS P AC 1300

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	Photometric and lighting design files	Document name
	LDT file (Eulumdat)	LS P AC 1300 830 1M IP66
	LDT file (Eulumdat)	LS P DC 1300 830 1M IP66

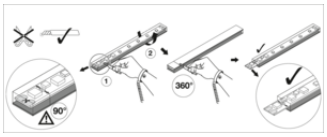
	Tender texts	Document name
	Tender documents	LED STRIP P HIGH VOLTAGE 230V 1300 830 50M IP66 -en

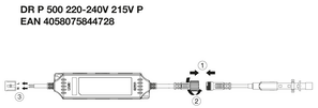
LOGISTICAL DATA

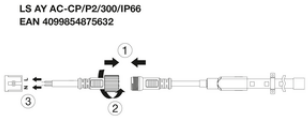
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854584428	Unpacked 1	252 mm x 252 mm x 136 mm	69.40 g	8.64 dm^3
4099854584435	Shipping box 50	271 mm x 271 mm x 175 mm	4195.00 g	12.85 dm^3

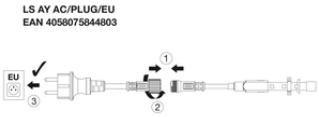
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

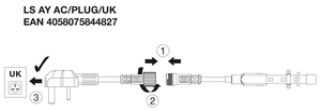
ADDITIONAL CATALOG INFORMATION











DISCLAIMER

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

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