

PRODUCT DATASHEET

LS P AC 1200 840 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 ¹⁾ |
| Construction wattage | 550.00 W |
| Nominal wattage per meter | 12 W ²⁾ |
| Nominal voltage | 220...240 V |
| Type of current | AC/DC |
| Nominal current | 2400.000 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 | 111 lm/W ¹⁾ |
| Luminous flux | 60300 lm ²⁾ |
| Luminous flux per meter | 1340 lm ³⁾ |
| Color temperature | 4000 K |
| Color rendering index Ra | > 80 |
| Light color (designation) | Cool White |
| Standard deviation of color matching | 6 sdcm |

- 1) lm/W: AC: 111 DC: 143
2) lm (50m) AC: 60300 DC: 64350
3) lm (1m) AC: 1340 DC: 1430

Light technical data

| | |
|------------|-------|
| Beam angle | 120 ° |
|------------|-------|

LED MODULE INFORMATION

| | |
|--------------------------|-----|
| Number of LEDs per meter | 120 |
|--------------------------|-----|

Dimensions & Weight

Colors & materials

Temperatures & operating conditions

Lifespan

Additional product data








Capabilities

Certificates & Standards

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 T_c 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 |
|  | IES file (IES) | LS P DC 1200 840 1M IP66 |
|  | LDT file (Eulumdat) | LS P AC 1200 840 1M IP66 |
|  | LDT file (Eulumdat) | LS P DC 1200 840 1M IP66 |

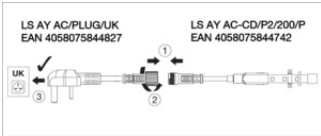
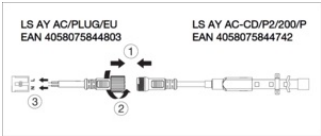
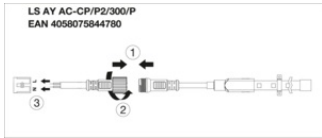
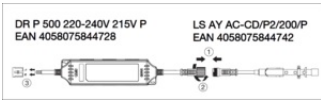
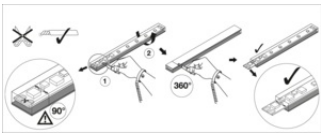
| Tender texts | Document name |
|--|--|
|  Tender documents | LED STRIP P HIGH VOLTAGE 230V 1200 840 50M IP66-en |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075844681 | Folding box 1 | 271 mm x 271 mm x 175 mm | 4195.00 g | 12.85 dm ³ |
| 4058075844698 | Shipping box 2 | 292 mm x 292 mm x 359 mm | 8977.00 g | 30.61 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.