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> KXZM 12V 5M Blue LED Strip Light (SMD2835, IP20) Instruction Manual

KXZM SMD2835-NP-B

KXZM 12V 5M Blue LED Strip Light Instruction Manual

Model: SMD2835-NP-B

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your KXZM 12V 5M Blue LED Strip Light. Please read these instructions carefully before installation and operation to ensure proper functionality and safety.



Image: A coiled KXZM 12V 5M Blue LED Strip Light, showcasing its flexible design and numerous LED chips.

2. SAFETY INFORMATION

- The working voltage for this LED strip is 12V DC. Do not connect to power adapters exceeding 12V, as this can damage the product and pose a safety risk.
- The LED strip generates extremely low heat, making it safe to touch and suitable for environments accessible to children.
- This product is rated IP20, meaning it is not waterproof. Avoid exposure to water or high humidity. Intended for indoor use only.
- Handle the strip light with care during installation to prevent tearing or damage to the PCB (Printed Circuit Board).

3. PRODUCT FEATURES

- **High-Density LEDs:** Features 600 SMD2835 LEDs over 16.4ft (5m) for high brightness and efficient light output.
- **Flexible Design:** The PCB strip is slim, compact, and highly flexible, allowing for bending and folding to fit various shapes and patterns.

- **Cuttable:** The strip can be cut every 3 LEDs along designated cutting marks, enabling customization for specific lengths.
- **Self-Adhesive Backing:** Equipped with adhesive tape for secure and easy application to clean, dry surfaces.
- **Easy Connectivity:** Includes a 2.1x5.5mm DC female connector for straightforward connection to a compatible 12V power adapter (not included).



Image: This image illustrates the key features of the LED strip: it can be cut at marked intervals, it has a double-sided adhesive backing for mounting, and its flexible nature allows it to be shaped easily.

4. WHAT'S IN THE BOX

- 1 x KXZM 12V 5M Blue LED Strip Light

Note: A 12V 5A power adapter is required for operation and is not included with this product.

5. SETUP

1. **Prepare Power Supply:** Obtain a compatible 12V 5A DC power adapter. Ensure the power adapter's connector matches the 2.1x5.5mm DC female connector on the LED strip.
2. **Test Connection:** Before permanent installation, connect the LED strip to the 12V power adapter

and plug it into a power outlet to verify functionality.

It is recommended to use 12V 5A power supply



Image: The LED strip is shown on its reel, with a visible DC connector. Text on the image recommends using a 12V 5A power supply, which is sold separately.

6. INSTALLATION

1. **Surface Preparation:** Clean the desired installation surface thoroughly. Ensure it is dry, smooth, and free of dust or grease for optimal adhesive performance.
2. **Measure and Cut (Optional):** If a shorter length is needed, measure the desired length and cut the LED strip only along the designated cutting marks (indicated by copper pads and a scissor icon). Cutting elsewhere will damage the circuit.
3. **Peel Adhesive Backing:** Carefully peel off the blue release paper from the double-sided adhesive tape on the back of the LED strip. Use a sharp, thin object to lift the edge of the release paper if it is difficult to start.

How to tear off double sided tape?

Due to the strong stickiness of the double-sided tape, you need to use a sharp object to lift the blue release paper.



Image: A close-up view demonstrating the correct method for peeling the blue protective film from the double-sided adhesive on the back of the LED strip.

4. **Apply Strip:** Press the adhesive side of the LED strip firmly onto the prepared surface. Apply even pressure along the entire length to ensure good adhesion.
5. **Connect Power:** Plug the DC connector of the LED strip into your 12V 5A power adapter.

7. OPERATING INSTRUCTIONS

Once properly installed and connected to a 12V power supply, the LED strip will illuminate. If using a compatible dimmer (not included), you can adjust the brightness from 0% to 100% to suit your needs.



Image: A graphic demonstrating the dimmable capability of the LED strip, showing a range from 0% (off) to 100% (full brightness).

8. MAINTENANCE

- **Cleaning:** Gently wipe the LED strip with a dry, soft cloth to remove dust. Do not use liquid cleaners or abrasive materials.
- **Inspection:** Periodically check the strip for any signs of damage, loose connections, or adhesive degradation.
- **Storage:** If storing the strip, ensure it is coiled loosely and kept in a dry, cool place away from direct sunlight.

9. TROUBLESHOOTING

- **Lights Not Turning On:**
 - Ensure the 12V power adapter is correctly connected and plugged into a working power outlet.
 - Verify that the power adapter is 12V DC and provides sufficient current (recommended 5A).
 - Check for any visible damage to the LED strip or its connectors.
- **Uneven Brightness:**
 - For longer runs, voltage drop can occur, leading to decreased brightness towards the end of the strip. Ensure the power supply is adequate and consider powering from both ends for very long installations if possible.
- **Adhesive Not Sticking:**
 - Ensure the installation surface was clean, dry, and smooth before application.
 - Apply firm, even pressure along the entire strip during installation.
 - For rough or textured surfaces, additional mounting clips or stronger adhesive may be required (not included).

10. SPECIFICATIONS

Brand	KXZM
Model Number	SMD2835-NP-B

Color	Blue
Length	5 Meters (16.4ft)
LED Type	SMD2835
Number of LEDs	600
Voltage	12 Volts (DC)
Wattage	50 Watts (Maximum)
Recommended Power Supply	12V 5A (Not Included)
Ingress Protection (IP) Rating	IP20 (Non-Waterproof, Indoor Use)
Control Method	App (Requires compatible controller, not included)
Average Life	50,000 Hours

11. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the seller's contact details or the product listing page where you made your purchase. Keep your purchase receipt as proof of purchase.