

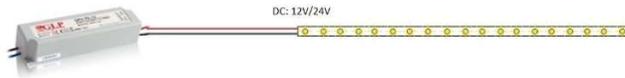
## PRODUCT DESCRIPTION

Low-voltage LED strip provides high brightness, long lifespan, consistent color, good flexibility, energy efficiency, and is environmentally friendly. This LED strip is used for lighting or backlighting and finds its applications in homes, apartments, hotels, and shopping centers. It can be used both indoors and outdoors, with protection against water or rain. This guide contains general instructions for installation, connection, and operation, while detailed technical information can be found in the product specification.

## CONNECTION GUIDE

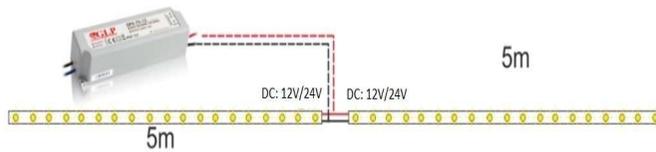
### Single-color tape – 1 segment No additional controller required

1. POWER SUPPLY                      2. LED STRIP



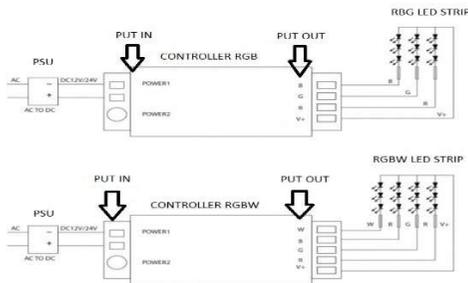
Connect the „V+“ and „V-“ of the LED strip to the power supply output accordingly

### Single-color tape – multiple segments No additional controller required



Connect the „V+“ and „V-“ of the LED strip to the power supply output accordingly

### Multi-color strip (RGB, RGBW, WWCW, etc.) – Multiple segments Additional controller required



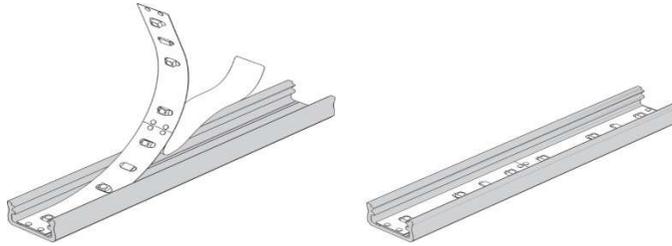
Connect the „V+“ and „V-“ of the LED strip to the power supply output accordingly

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## INSTALLATION

The following instructions apply to a double-sided adhesive 3M-covered strip.

1. Ensure that the surface is clean before installation
- 1.1 Unroll the LED strip from the reel
- 1.2 Remove the protective paper from the back of the LED strip
- 1.3 Stick the strip to the desired surface (aluminum profile)



The following instructions relate to the installation of the LED strip using aluminum profile.

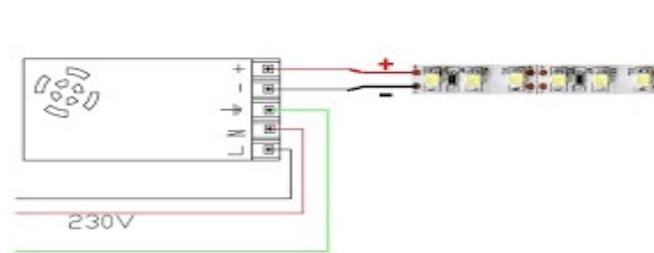
2. Unroll the strip to the required length from the reel
- 2.1 Firmly press the strip onto the surface and secure it with the mounting brackets.
- 2.2 Mount the aluminum profile to the selected surface.



3. After installing the LED strip on the surface, connect the power supply output to the strip and the input to the power cord (see pictures below)

Use appropriate insulation materials and pay attention to the polarization of the power wires (usually red for plus and black for minus) when connection the components

4. After completing the previous steps, you can turn on the power supply.



Connect the power supply output wires

Connect the power supply input wires

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## TROUBLESHOOTING

Causes of LED strip malfunction		
Malfunction	Possible causes	Solution
All LEDs are not lighting up	Power supply not connected	Turn on the power
	Short circuit in the circuit	Remove the short circuit and turn on the power again
	LED strip wires connected in reverse	Check the correctness of wire connections
Some LEDs are not lighting up	No electric current on some power supply outputs	Improve the connection
	Damaged LED power wires	
	Partial LED strip connected in reverse	Correct connection
Uneven or weak LED brightness	Overloaded power supply	Replace the power supply with a higher capacity one
	High power losses in the circuit or significant voltage difference between circuits	Ensure that the supply voltage for each LED strip is within +5% of the declared voltage. Shorten the cable between the first LED strip and the power supply or replace it with a larger cross-section cable. Ensure that the number of cascaded connected strips is equal to or less than the permissible number, and that each section is evenly loaded
	Exceeded the allowable number of cascaded strips	Reduce the number of strips in the cascade and ensure that each section of the circuit is not overloaded
LEDs are flickering	Weak connection	Locate and repair the malfunction
	Faulty power supply	Replace the power supply

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## CAUTIONS

1. Do not press on the LED diodes or use sharp objects on their surface.
2. Ensure that the surface where you are installing the LED strip is clean and properly prepared before sticking.
3. Check the correct connection of the + and – terminals of the LED strip; otherwise, the strip may not function correctly.
4. When connecting two or more LED strips, pay attention to the polarization of the wires during installation
5. Securely fasten the wires to prevent accidental removal or damage.
6. Protect connections from moisture, short circuits, and corrosion.
7. If the strip needs to be cut, do it at the location marked with scissors.
8. When preparing an adhesive-backed LED strip, peel off the paper tape gradually to avoid sticking the LED strip together.
9. If adjustments to the connections are necessary, handle the strip with care.
10. It is recommended to wear ESD clothing and use an ESD wristband during installation
11. Ensure that the power supply is properly grounded
12. Verify that the output voltage of the power supply falls within +5% of the LED strip's voltage, and the power supply's capacity is at least 20% greater than its load.
13. The power supply must have overcurrent protection (OCP), overvoltage protection (OVP) and overload protection (OLP).
14. When installing, please consult a qualified person to select the right wires, their length, and cross-section. Overheating of the wires can lead to a fire hazard.
15. Do not use adhesives containing acidic or alkaline substances.
16. The LED strip generates significant heat during operation, so it should be mounted on a material that effectively dissipates heat.
17. The choice of wire cross-section depends on their load and length. Wires should not exceed 5 meters in length. Below is a table to assist in wire selection.

Power (W)	Current (A)	Wire Cross-Section in mm
12	1	0,75
24	2	1
48	4	1.5
72	6	2
100	9	2.5

## WARNINGS!

1. Disassembly or modification of the product is prohibited.
2. Mounting the strip while it is powered is not allowed.
3. Replacing individual LEDs is prohibited.
4. Exposure of the LED strip to organic solvents, directly or indirectly, is forbidden.
5. Do not use adhesives containing acidic or alkaline substances for LED strip mounting.
6. Mounting, servicing, or repairing the product by an unqualified person is prohibited.
7. Powering the product without using all safety measures is not allowed.
8. Do not power the product while it is in its protective roll
9. Before turning on the power, ensure that the output voltage range of the power supply is suitable for the LED strip, and that the wires are correctly connected.
10. During operation, the product can generate a significant amount of heat, so it is advisable to use a heat-dissipating substrate.
11. The product must be securely mounted to prevent overheating of adjacent components and ensure safe usage.
12. Please do not leave the LED strip on for longer than 12 hours a day to prevent the accumulation of heat that could shorten its lifespan
13. If the LED strip is not used frequently, it is recommended to turn it on for 1-2 hours every 1-2 weeks to prevent degradation
14. Prolonged exposure to sunlight is prohibited. The product must be protected from water.
15. LED strips with PU adhesive should not be used in enclosed spaces, such as lamp enclosures.
16. If an LED is damaged, replace the product or have it repaired by a qualified individual.
17. The information provided in this manual pertains to a typical product. Therefore, slight differences may exist compared to the actual product.
18. All images are for reference purposes only.
19. The manufacturer reserves the right to make changes to the specifications without prior notice.

# LED STRIP



Stretch ceilings and LED lighting

## User manual

**Please carefully read the instructions before use.  
Thank you for your purchase!**