

MC60XB

PWM 1-5CH BLUETOOTH intelligent grouping Controller MC60XB Controllers+MR series Remote Control Specification



MC601B-DIM

MC602B-CCT

MC603B-RGB

MC604B-RGBW

MC605B-RGBCCT

Compatible remote control

A single device can support 10 remote controls at the same time



MR10X Series



MR20X Series



MR011 DIM/CCT



MR333 RGB



MR02X Series



MR501-Human body sensor

Compatible voice assistants (Support language command switch and brightness adjustment.)



小米小爱



小智管家



天猫精灵



百度小度



Amazon Alexa



Yandex Alice



Google Assistant

Local Remote Control:

MESH remote control realizes local physical key control (such as switching, group switching, basic dimming) through MESH, which is suitable for the elderly, children or quick operation.

MSHE BLUETOOTH Controller Through the BLUETOOTH gateway Tuya Ecology supports remote APP control, which can finely adjust brightness, color and dynamic effects, and can share devices and create groups and other functions.

peculiarity

- MESH wireless transmission technology, stable signal and strong penetration.
- Each node has a signal relay function, which makes long-distance transmission more sensitive and consumes less power.
- Support matching multiple devices, multiple devices can be controlled at the same time, and one remote control can manage and synchronize up to 500 controllers. Each controller can be supported by 10 remote controls.(Control distance 30 meters)
- The brightness of the remote control can be adjusted according to personal preference, and the brightness and speed of the dynamic mode can be edited.
- The controller can adjust the brightness, color, voice control, select various dynamic or custom scenario modes, timing, countdown and other functions through the Tuya/Smart Life APP.
- Device click to run and automate, automatic transfer and synchronization function.
- PWM (Pulse Width Modulation) technology is adopted to ensure smooth light transition and avoid eye fatigue.
- Voice control, support Asia Alexa, Google Assistant, Tmall Genie, Xiaomi Xiaoai voice assistant and other speakers.
- Support multi-controller cascade, easily cover large-area lighting scenes such as shopping malls, theaters, building facades, etc.

Device parameters

LED controllers

Input voltage	DC 12-48V
Input current	10/CH; 30A max
Access signal	MESH+BLUETOOTH

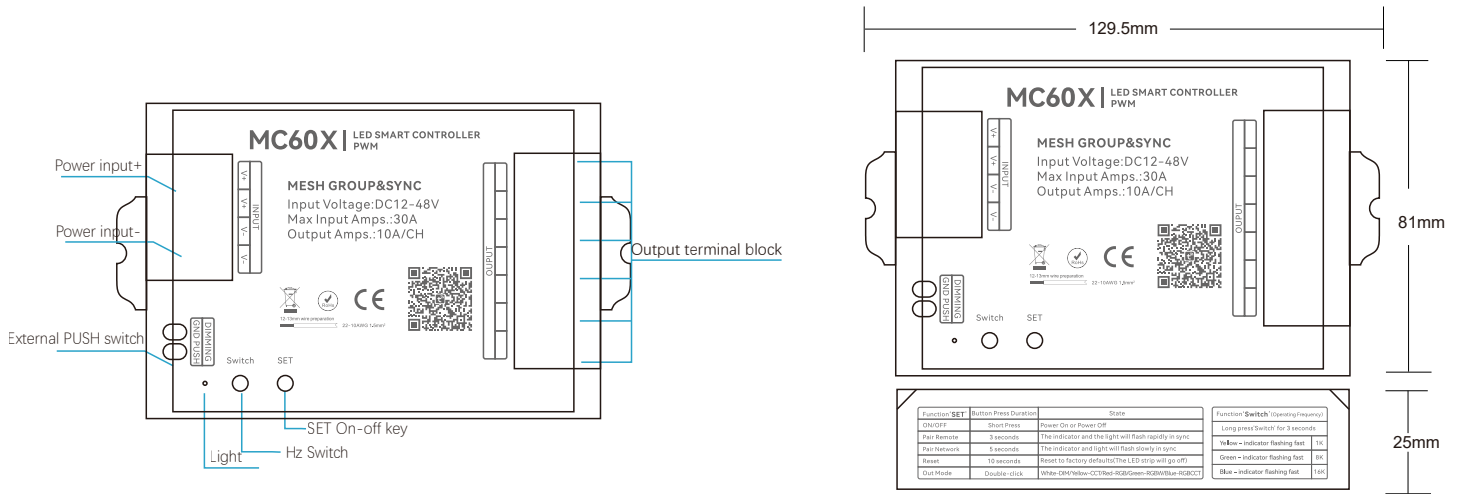
Environment

Operating temperature	Ta:-20°C~+60°C
Maximum temperature of the case	Tc:+65°C
IP rating	IP20

Control the distance	30M
Size	L129.5XW81XH25mm
Authentication	CE,ROHS

Wrap	
Package size	L13.5XW9XH3cm/0.16kg
Box size (100 pcs)	L70XW15XH32cm/1.8kg

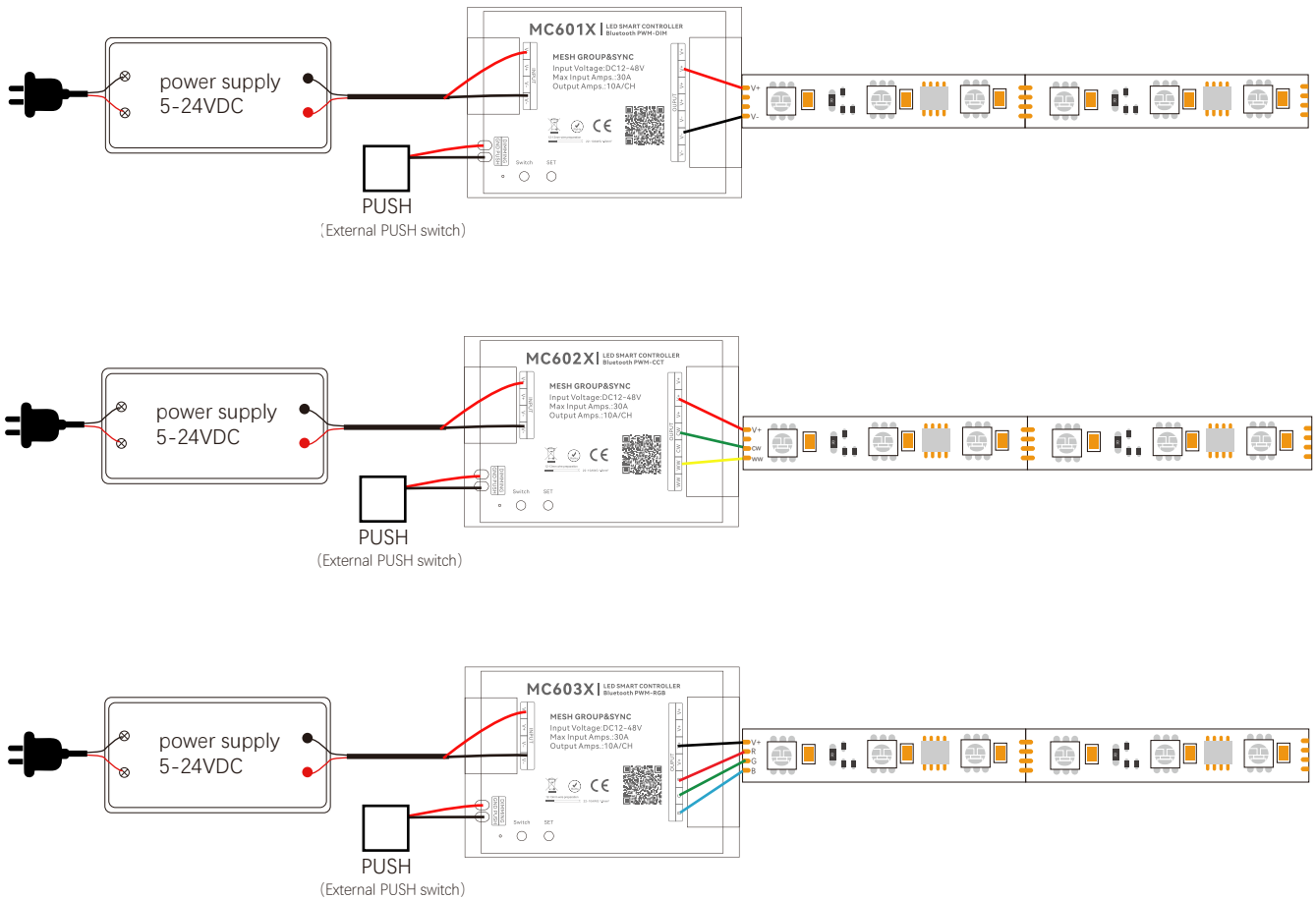
Equipment mechanism and installation

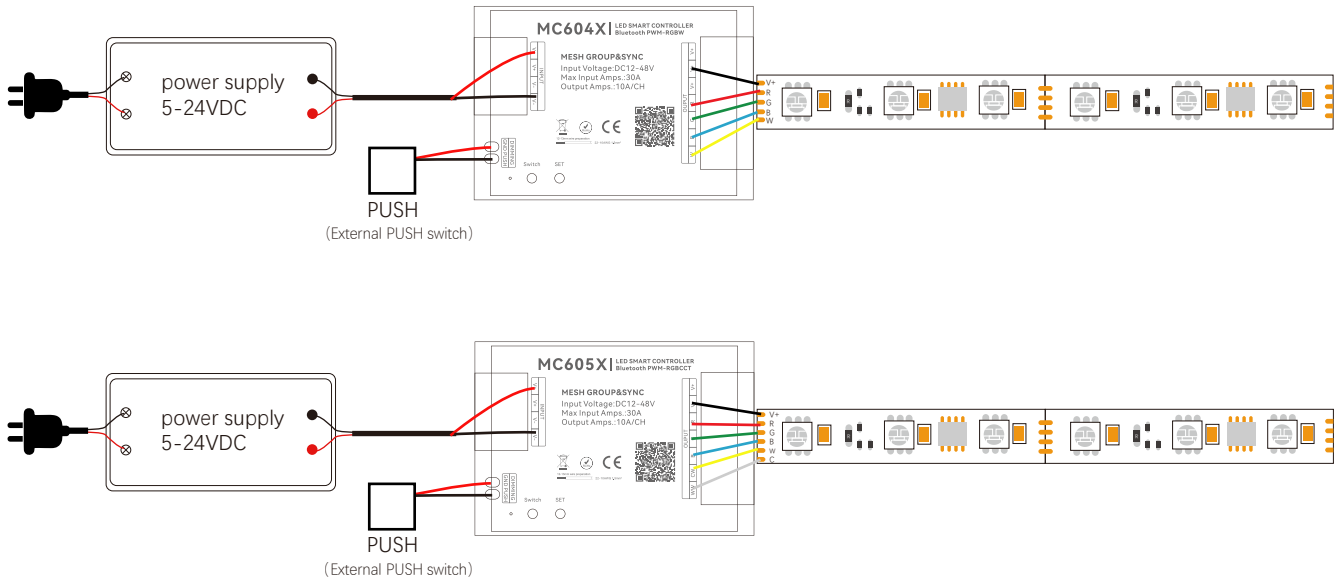


Wiring diagram of the device

Connect the strip light

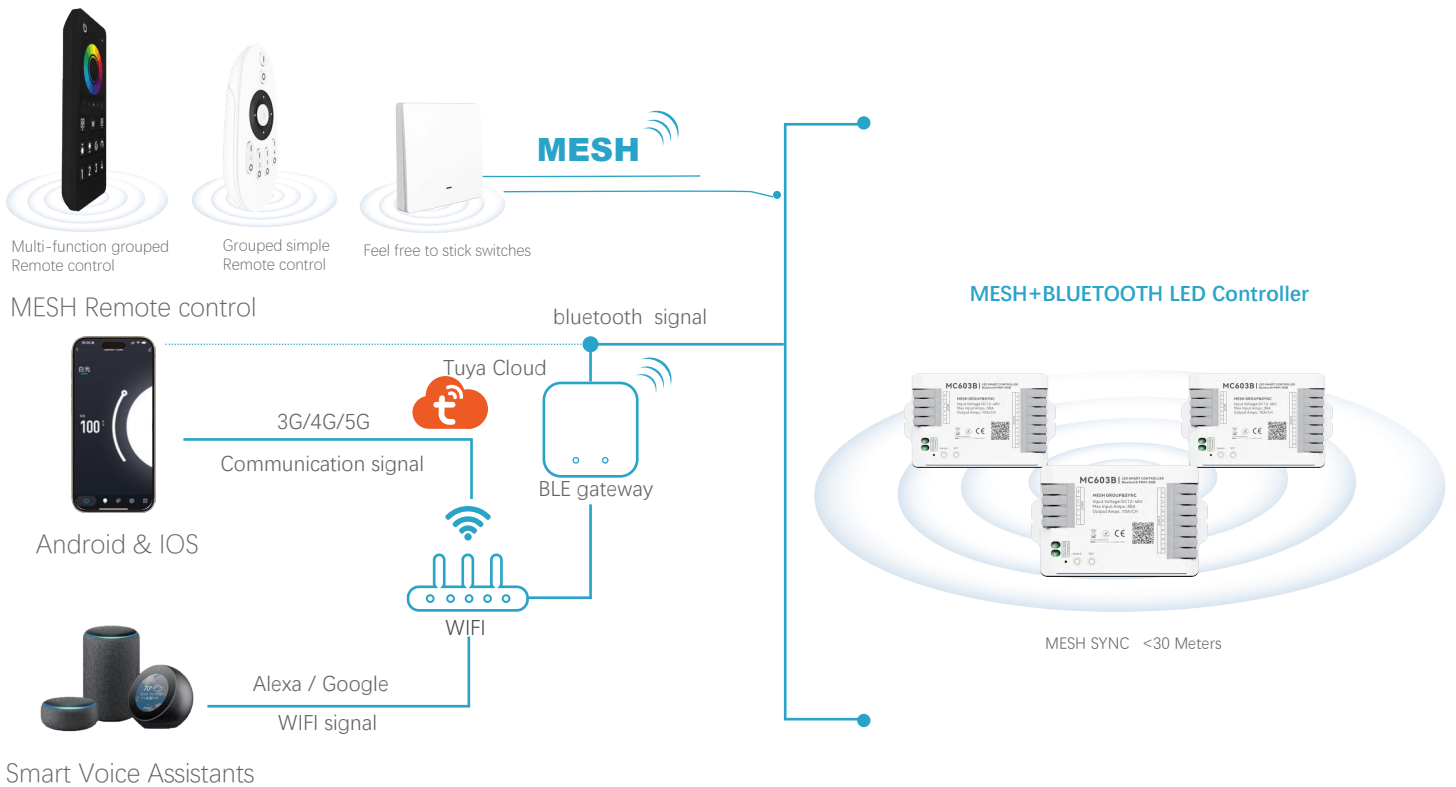
AC100-240V





Schematic diagram of the control connection

MESH wireless communication technology



Tuya smart download & APP network connection

1. Download and install the [Smart Life] or [Tuya Smart] APP

Search for [Tuya Smart] on Apple or Google Play or scan the QR code below to download and install the app.

Please click on the "Sign Up" button to create an account and use it for the first time, if you already have an account, log in directly.

Please download the corresponding Tuya/Smart Life APP according to your region.



Scan the QR code to download the APP

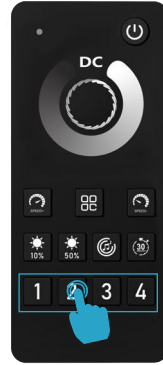
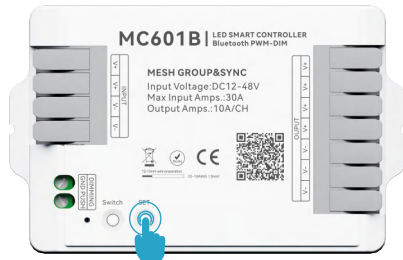


Smart Life APP



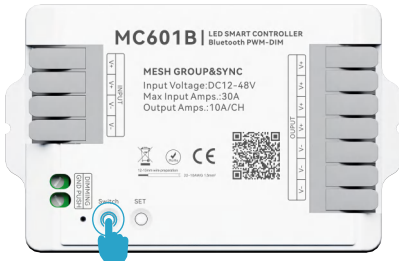
Tuya Smart APP

2. Product function description & reset the device



Control Method 1: 'SET'Button	Control Method 2: Power Off	Indicator light status	Next steps	Functional Result
Short press (release within 1 second)	Not supported	No special flicker	No additional action required	Switch device power on/off status
Press and hold for 3 seconds, then release	3 times	Rapid flicker	Press any group button on the remote control	Complete the pairing of the remote control with the corresponding group
Press and hold for 5 seconds, then release.	5 times	Slow blinking	Operate network settings on the mobile app	Complete the device network configuration and connect to the mobile app
Press and hold for 10 seconds, then release.	10 times	Rapid flicker	No additional action required	Device reset, clear WiFi network information and remote control pairing

2-1.Adjust the controller frequency

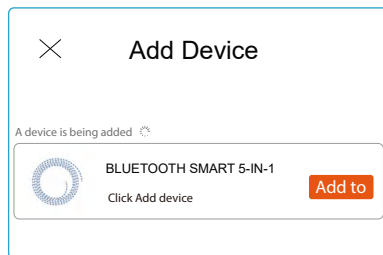
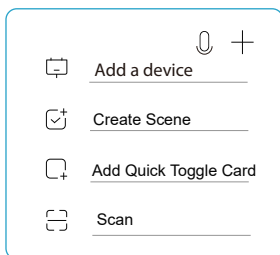


Function 'Switch' (Operating Frequency)	
Long press 'Switch' for 3 seconds	
Yellow - indicator flashing fast	1K
Green - indicator flashing fast	8K
Blue - indicator flashing fast	16K

3. Connect to your smartphone

1. Make sure your smartphone is working under a WLAN network.
2. Open the login APP, press and hold "SET" to add a device, if you don't find it, please click " " in the upper right corner, then manually select "Add Device", wait for 5-10 seconds to complete the connection.
3. Once the connection is successful, the new device will be displayed on the home page, then tap on the device and enter the control interface to do more

Follow these steps to complete the connection:



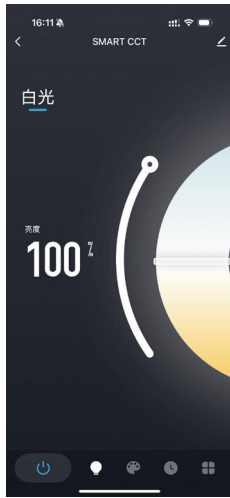
Tuya APP interface

Main interface: white light mode; color temperature mode; IPL mode; Color light mode+ White light mode; Color light mode+ color temperature mode;



white light mode

DIM



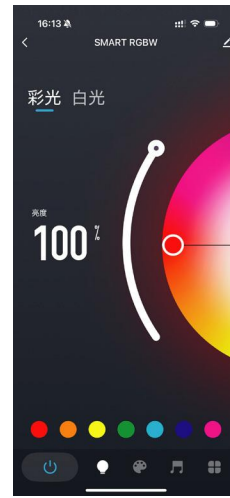
color temperature mode

CCT



IPL mode

RGB



Color light mode+
White light mode

RGBW



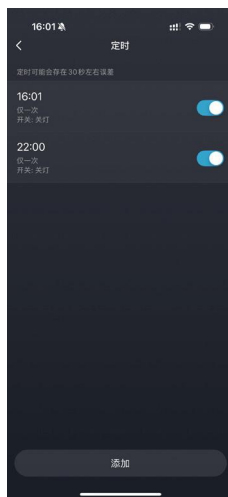
Color light mode+
color temperature mode;

RGB CCT

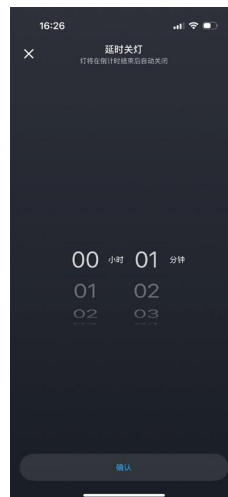
MC601、MC602 Tuya app interface



Scenario mode



Timing



Countdown



Power-off mode



Setup

White light mode/color temperature mode: one-key switch, basic dimming

Custom Scenes: Six Scenario Modes Customize the static, jumping, breathing, color, brightness, and transformation speed of the scene, a total of 4 scenes can be customized.

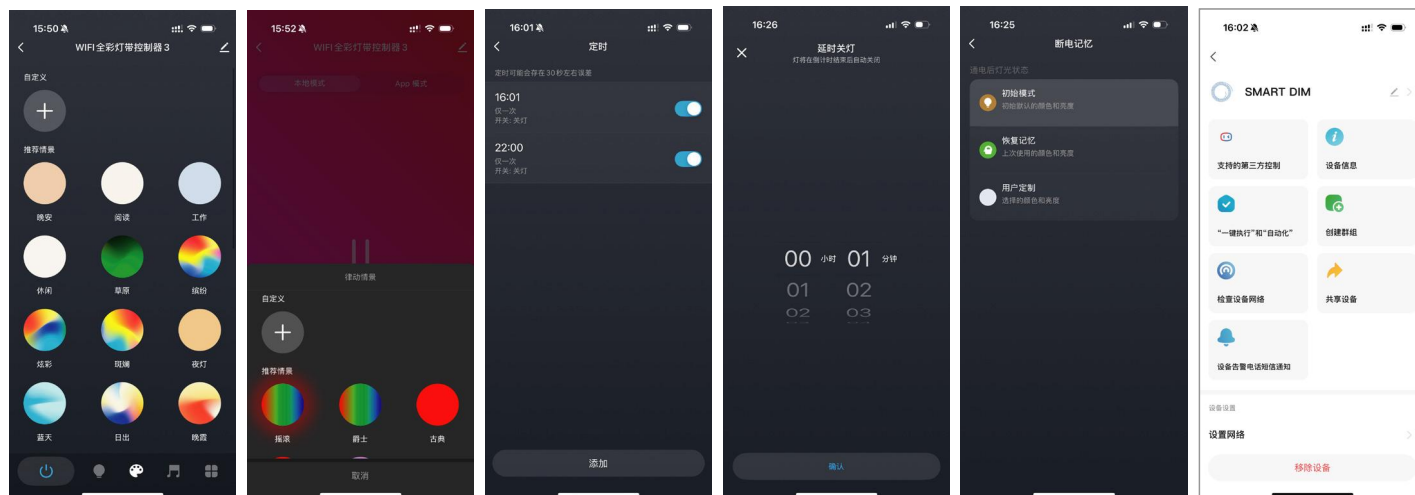
Timing: Customize multiple times to perform on/off light actions. There may be an error of about 30 seconds in timing.

Countdown: Customize the countdown time to perform the on/off action of the lights, and the lights will automatically turn off after the countdown ends.

Power-off memory: Power-on reaction can set the state of the light after power-on.

Settings: This interface can be bound with third-party language control, one-click execution and automation, group creation, device sharing and other functions

MC603、MC604、MC605 Tuya app interface



Scenario mode

Music mode

Timing

Countdown

Power-off mode

Set up

IPL mode/IPL&White mode/IPL&color temperature mode: one-key switch, IPL: set the color and brightness of the light, one-key shortcut color. White Light: Set the brightness and color temperature of white light.

Custom scenes: 32 story modes (30 story modes in RGB) Custom custom can adjust the static, jumping, breathing, color brightness, and change speed of the scene, a total of 10 scenes can be customized.

Music Mode: Local Mode: Adjustable Sensitivity, 5 Recommended Scenes, Custom Rhythm Scenes, a total of 3 Custom Rhythm Scenes can be added. APP mode: the sensitivity is not adjustable, you need to turn on the mobile phone microphone to detect the music.

Timing: Customize multiple times to perform on/off light actions. There may be an error of about 30 seconds in timing.

Countdown: Customize the countdown time to perform the on/off action of the lights, and the lights will automatically turn off after the countdown ends.

Power-off memory: Power-on reaction can set the state of the light after power-on.

Settings: This interface can be bound with third-party language control, one-click execution and automation, group creation, device sharing and other functions

Safety Precautions

1. The remote control is a precision electronic product, please do not use it in a humid or high temperature environment for a long time. If not in use for a long time, remove the battery and store it in a cool, dry place.
2. Do not use this device in a large area of metal or in an environment with strong electromagnetic waves nearby, otherwise it will seriously affect the control distance
3. Please check whether the input voltage of the constant voltage power supply meets the requirements of the controller, and check whether the connection of the cathode and anode is correct.
4. The working voltage is DC 12~48V, if the voltage is higher than 48V, the controller will be damaged.
5. Non-professional users cannot directly disassemble the controller, otherwise it may cause fire and electric shock.
6. The working temperature (Ta) is -20~60°C; Do not use the device in direct sunlight, humidity, or other high-temperature areas.
7. When the equipment load reaches 15A, the wire diameter must be more than 1.5 square millimeters
8. When the device load exceeds 10A, the connection cable from the DC port to the LED strip must be shorter than 40cm.
9. Please install the device in a good heat dissipation area.