4 in 1 Universal ZigBee LED Controller

MODEL : SR-ZG910CONTZGBE5C12243648

E501896

- Latest ZigBee 3.0 Protocol Standards
- 4 different device modes. DIM (single colour/white) CCT (colour temperature adjustable), RGBW (Red, Green, Blue, White), and RGB+CCT (Red, Green, Blue, colour temperature adjustable)
- Ability to turn on/off, adjust brightness, adjust colour temperature, and adjust colour of RGB LEDs
- Can pair directly with ZigBee remote via Touchlink
- Supports self-forming ZigBee network without coordinator
- Supports ZigBee Green Power and can bind up to 20 ZigBee Green Power Switches
- Compatible with Universal ZigBee gateway or Hub
- Compatible with Universal Zigbee remotes
- Waterproof grade: IP20 (Indoor Use Only)

⚠WARNING – CAUTION - ATTENTION ⚠

Please Read All Instructions Prior to Installation
DO NOT expose the device to moisture.
Indoor Use Only
DO NOT Install with power applied to device
Please contact us if you have any questions

Veuillez lire toutes les instructions avant l'installation
Ne pas exposer l'appareil à l'humidité
Pour une utilisation en intérieur uniquement
Ne pas installer avec de l'électricité appliquée à l'appareil
Contactez-nous si vous avez des questions

Status Light stays solid when DC power input present. Turns off after adding to a ZigBee hub. Used during pairing, Touchlink, and Factory Reset)

Program Key used for ZigBee Pairing, Touchlink, and Factory Reset

DC Power Input (12/24/36/48VDC)

LED Output Common (+)
CH1 : R/R/WW/1 output (-)
CH2 : G/G/CW/2 output (-)
CH3 : B/B/WW/3 output (-)
CH4 : WW/W/CW/4 output (-)
CH5 : CW/NC/NC 5 output (-)

NC = No Connection

DipSwitch used forDevice Mode Selection (DIM, CCT, RGBW, RGB+CCT)
Factory Default is RGB+CCT

1) In RGBW mode, W channel can be turned on through the Gateway's colour temperature control interface which will mixx RGB channels as 1 channel white and then make colour tuning with the 4th channel white. Once illuminated, the brightness of the white channel will be controlled together with RGB channel.

2) In RGBW mode, W channel can be controlled separately from RGB channels through RGBW ZigBee remote or TouchPanel's W button. Please reference the devices corresponding manual.

3) In RGB+CCT mode (default mode), RGB channels and tunable white channels are controlled separately. They cannot be turned on and controlled at the same time.

Product Specification Table

Input Voltage	Output Current	Output Power	Connector Current Rating	Wire Gauge	Power Output	Size (LxWxH)	Ambient Temperature	Maximum Case Temperature
12-24VDC 36VDC 48VDC	Max. 8A / CH @ 12V Max. 8A / CH @ 24V Max. 6A / CH @ 36V Max. 4A / CH @ 48V	Max. 96 W / CH @ 12V Max. 192 W / CH @ 24V Max. 216 W / CH @ 36V Max. 192 W / CH @ 48V	Maximum 20A	0.05 - 3.3mm² 12 - 30 AWG	Constant Voltage	170 x 59 x 29 mm	ta= -20°c - +50°c	tc= 75°c

1. Wiring

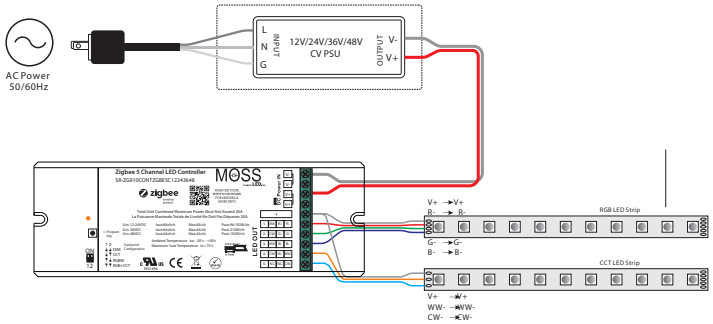
STEP 1: Follow the wiring diagram according the LED product you are wiring.

2. Control Method

This device is conttrolled wirelessly via the ZigBee protocol of communication. This controller communicates with a variety of ZigBee Compatible devices. and systems.

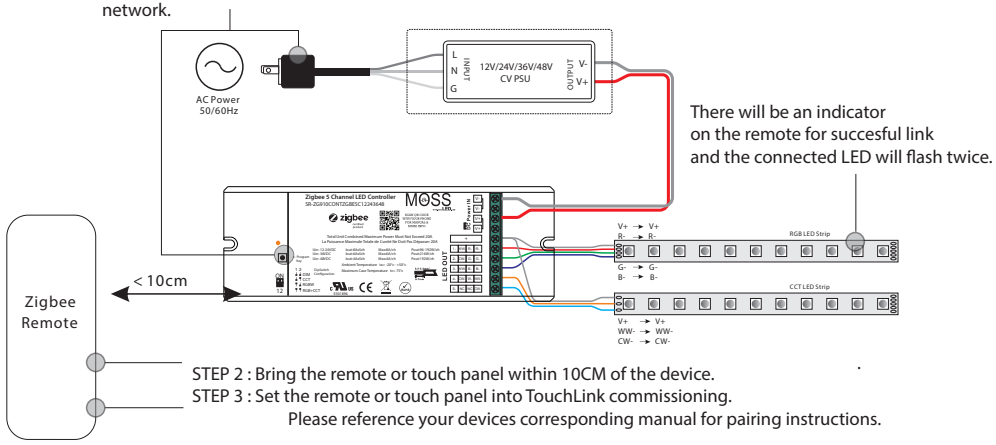
3. ZigBee Network Pairing through Coordinator or Hub (Adding to a ZigBee Network)

STEP 1: If this device has been added to a network previously, please ensure to remove it otherwise pairing will fall. Refer to the Factory Reset section of the Manual found on Page 3, Section 6 & 7.
STEP 2: From your ZigBee Controller or Hub Interface, choose to add a lighting device and enter Pairing mode. Please reference your devices corresponding manual for pairing instructions.
STEP 3: Reset power of the device to set it into network pairing mode (the connected LED flashes twice slowly). 15 seconds timeout, repeat this step.
STEP 4: The Connected light will blink 5 times and then stay solid on and the device wil appear in your controller's menu. It can now be controlled through the controller or hub interface.



4. TouchLink to a ZigBee Remote

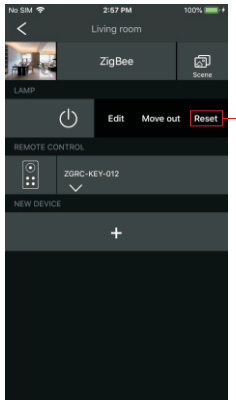
STEP 1 : Begin by starting the TouchLink commissioning process. There are two methods:
METHOD 1 : Short press "Program Key" button 4 times (or turn on/off 4 times) to start TouchLink commissioning. 3 minute timeout (180 seconds)
METHOD 2 : Turn on/off one time. TouchLink commissioning will start after 15 seconds if it is not added to a ZigBee network.



STEP 2 : Bring the remote or touch panel within 10CM of the device.
STEP 3 : Set the remote or touch panel into TouchLink commissioning.
Please reference your devices corresponding manual for pairing instructions.

NOTE : Direct TouchLink commission can only link with 1 device. (both not added to a larger ZigBee network)
NOTE : TouchLink after both added to a ZigBee network can link with a maximum of 30 remotes.
NOTE ; To control by both hub and remote, and remote and device to hub network first then TouchLink.
NOTE : After TouchLink, the device can be controlled by the linked remotes.

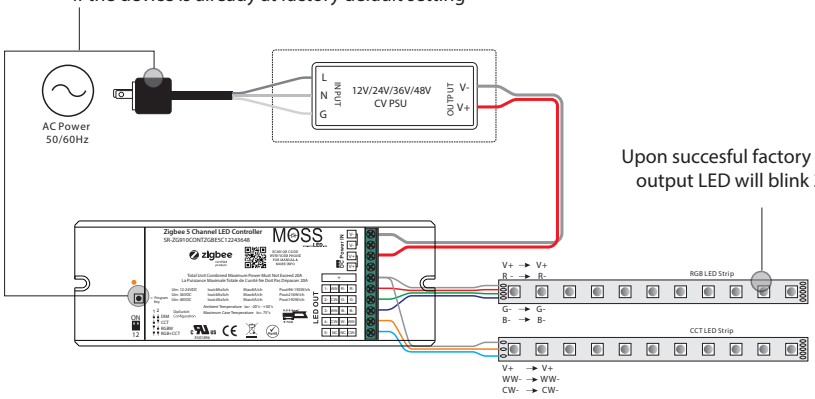
5. Remove from a ZigBee Network Through Coordinator or Hub Interface



From your ZigBee controller or hub interface. Choose to delete or reset the lighting device as per the specific device instruction manual.
The connected LED will blink 3 times to indicate a succesful reset.

6. Factory Reset via Manual Method

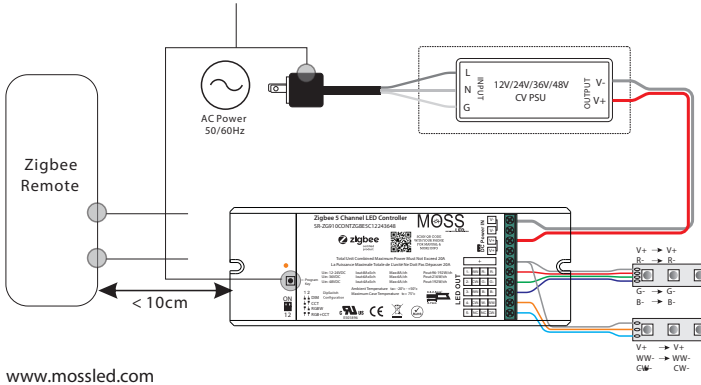
STEP 1 : Short press Program Key 5 times OR turn on/off 5 times in a row if Program key is inaccessible.
Upon succesful factory reset the output LED will blink 3 times.
If the device is already at factory default setting



Upon succesful factory reset the output LED will blink 3 times.

7. Factory Reset through a ZigBee Remote (Touch Reset)

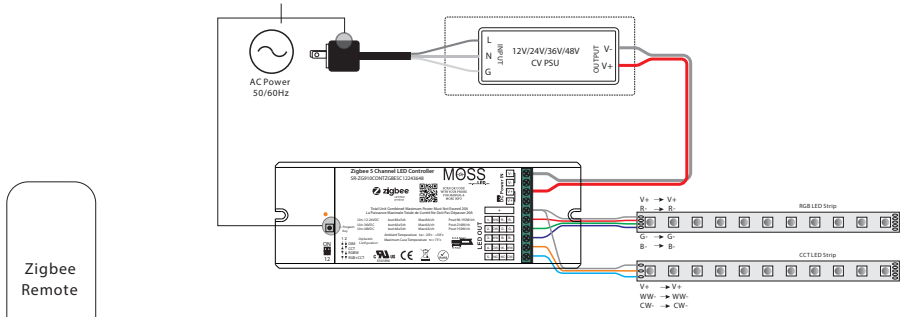
STEP 1 : Reset power of the device to start TouchLink Commissioning. 3 minute timeout (180 seconds)
STEP 2 : Bring the remote or touch panel within 10cm of the device.
STEP 3 : Set the remote or touch panel into Touch Reset procedure to reset the device.
Please reference your devices corresponding manual for pairing instructions.
NOTE : Ensure the device is added to the same network.



STEP 4 :
There shall be an indication on the remote and the output LED will flash 3 times for a succesful reset

8. Find & Bind Mode

STEP 1 : Short press "Program Key" button 3 times (or turn on/off the device 3 times).
The connected light should flash slowly. Timeout will occur within 3 minutes (180 seconds)



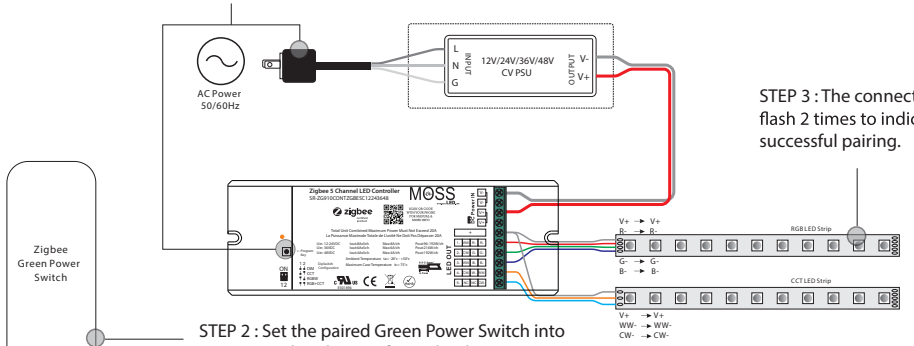
STEP 2 : Set the remote or touch panel (target note) into find and bind mode. Enable it to find and bind initiator. Please refer to the corresponding devices manual.

STEP 3 : There shall be indication on the remote or touch panel that it succesfully binded the device.

NOTE : Ensure the device and the remote or touch panel is already added to the same ZigBee hub.

9. Pairing with a ZigBee Green Power Switch

STEP 1 : Short press "Program Key" button 4 times (or turn on/off the device 4 times).
The connected light should flash slowly. Timeout will occur within 3 minutes (180 seconds)



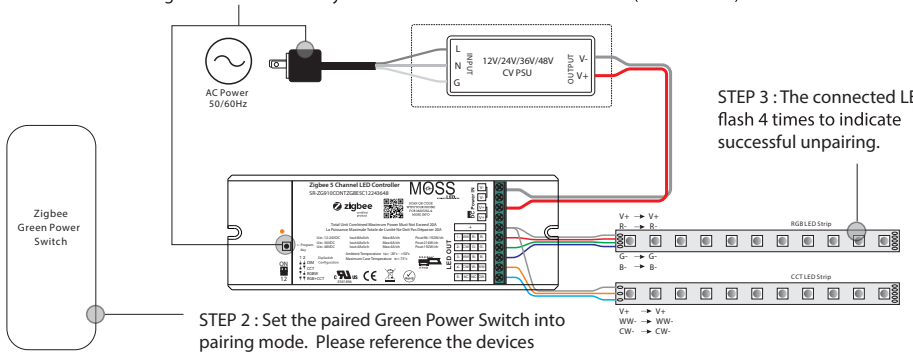
STEP 3 : The connected LED will flash 2 times to indicate successful pairing.

STEP 2 : Set the paired Green Power Switch into pairing mode. Please refer to the devices corresponding manual.

NOTE: Each device can be paired to a maximum of 20 ZigBee Green Power Switches

10. Remove Pairing to a ZigBee Green Power Switch

STEP 1 : Short press "Program Key" button 3 times (or turn on/off the device 3 times).
The connected light should flash slowly. Timeout will occur within 3 minutes (180 seconds)



STEP 3 : The connected LED will flash 4 times to indicate successful unpairing.

STEP 2 : Set the paired Green Power Switch into pairing mode. Please reference the devices corresponding manual.

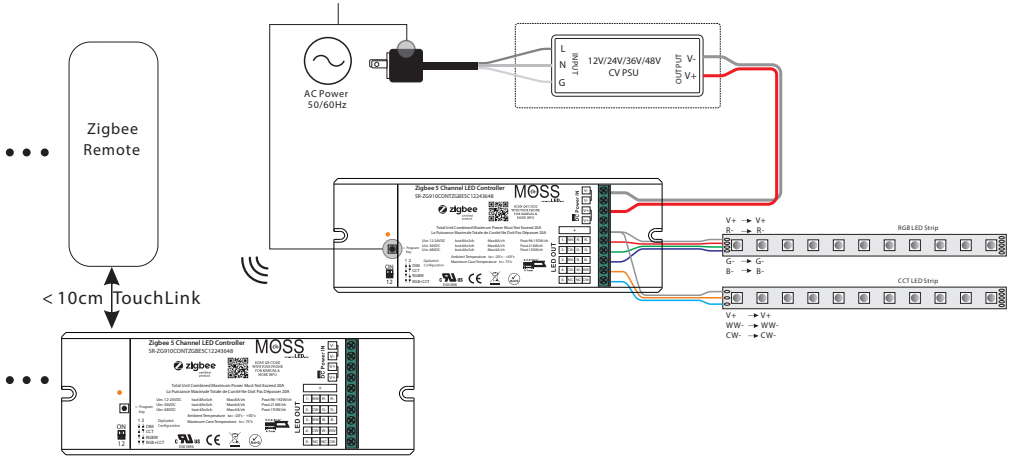
11. Set up a ZigBee Network & Add Other Devices to the Network (No Coordinator Required)

Step 1) Quick press Program Key button 4 times (or reset power of the device 4 times) to enable the device to set up a ZigBee network. Connected light flashes twice to discover and add other devices. 3 minute timeout. Repeat this step to add additional devices.

Step 2) Set another device by referring to the respective manual.

Step 3) Pair more devices and remotes to the network through Touchlink so that the devices can be controlled by the remotes.

Note: Each additional device (or remote) can link and be controlled by a maximum of 30 remotes



12. Zigbee Clusters the device supports are as follows:

Input Clusters:

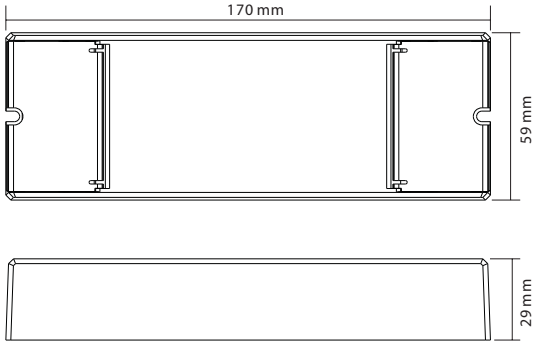
0x0000: Basic	0x0003: Identify	0x0004: Groups	0x0005: Scenes	0x0006: On/off
0x0008: Level Control	0x0300: Color Control	0x0b05: Diagnostics		

Output Clusters:
0x0019: OTA

13. OTA (Over-The-Air)

The device supports firmware updating through OTA. It will automatically check for new firmware every 10 minutes. This firmware from automatically from the main zigbee controller or hub every 10 minutes.

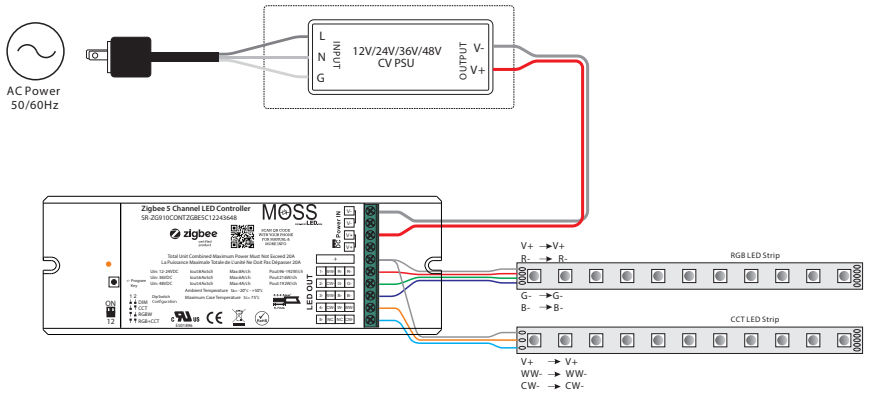
Product Dimension



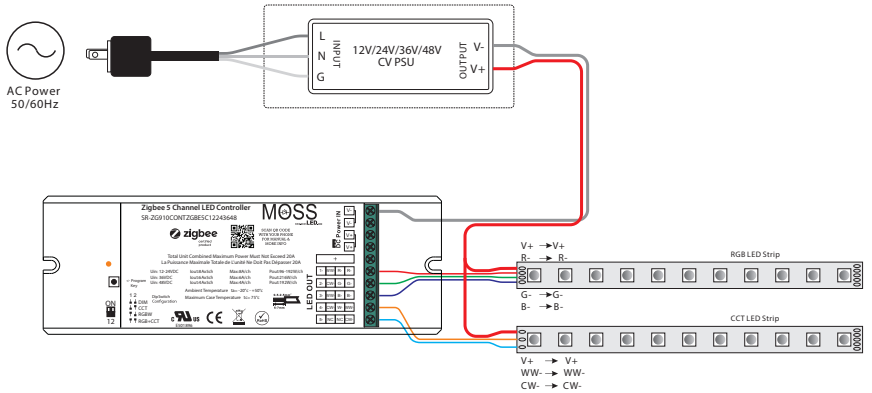
RGB + CCT (Colour Temperature Adjustable) Mode Wiring Diagram

Please ensure the dipswitches are in the RGB+CCT mode as show in the diagram
On the controller switch 1 and 2 must be in the up position.

Option 1) When total current draw of LED is under 20 amps please follow this wiring diagram



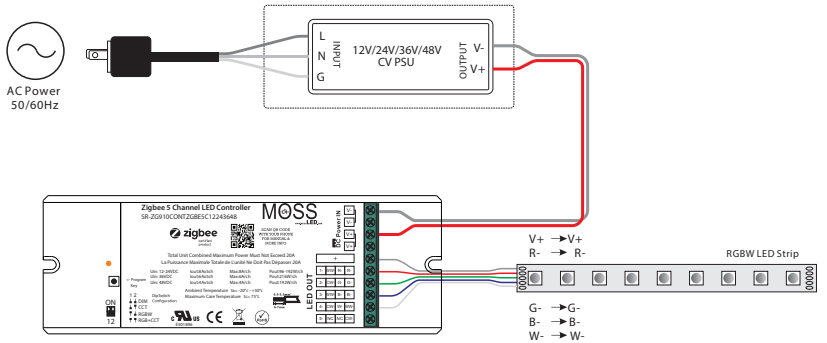
Option 2) When total current draw of LED exceeds 20 amps please follow this wiring diagram



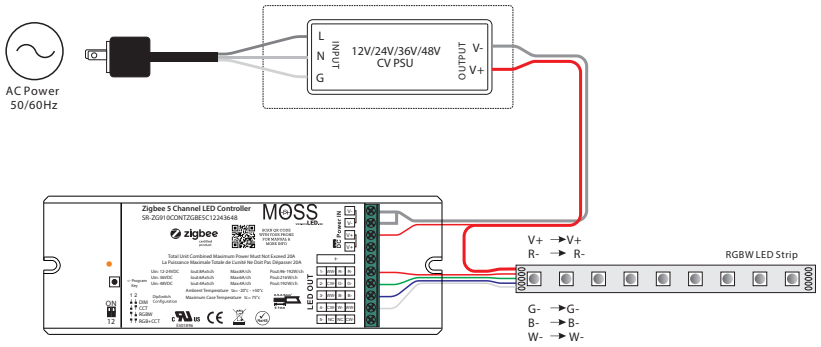
RGBW Mode Wiring Diagram

Please ensure the dipswitches are in the RGBW mode as show in the diagram
On the controller switch 1 must be in the up position and switch 2 must be in the down position

Option 1) When total current draw of LED is under 20 amps please follow this wiring diagram



Option 2) When total current draw of LED exceeds 20 amps please follow this wiring diagram

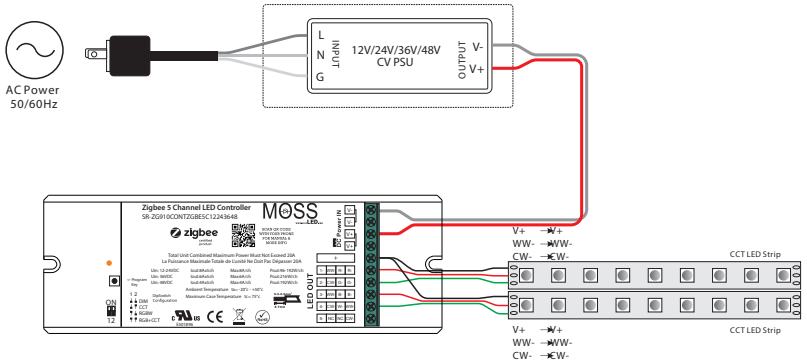


Note : please make sure the dial switches are at position for RGBW mode as shown in above diagram.

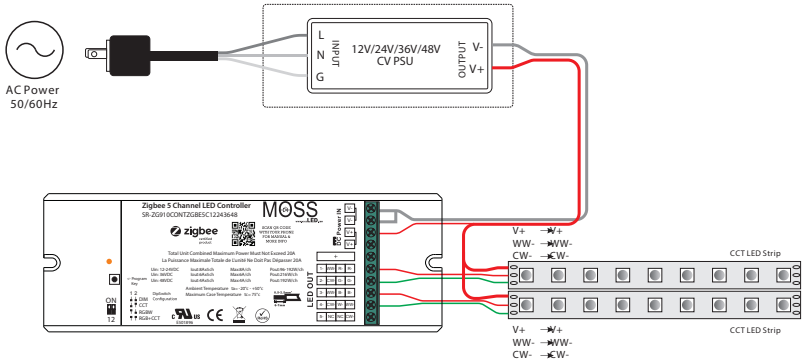
CCT (Colour Temperature Adjustable Mode) Wiring Diagram

Please ensure the dipswitches are in the CCT mode as show in the diagram
On the controller switch 1 must be in the down position and switch 2 must be in the up position

Option 1) When total current draw of LED is under 20 amps please follow this wiring diagram



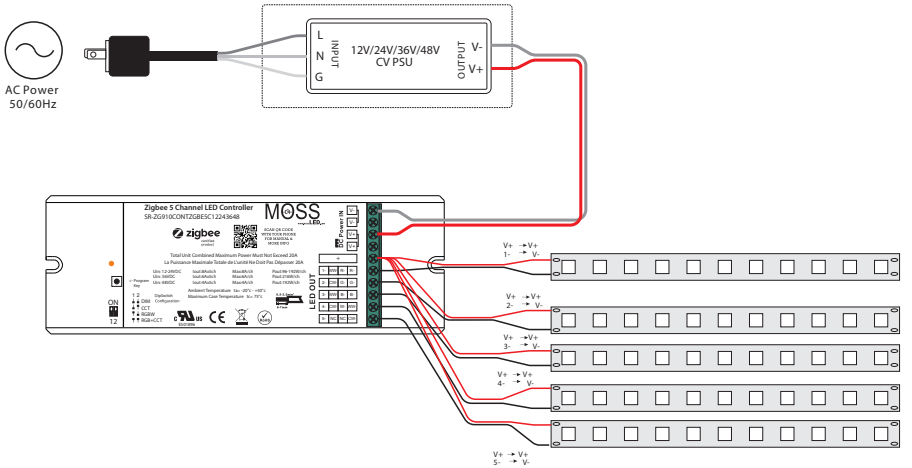
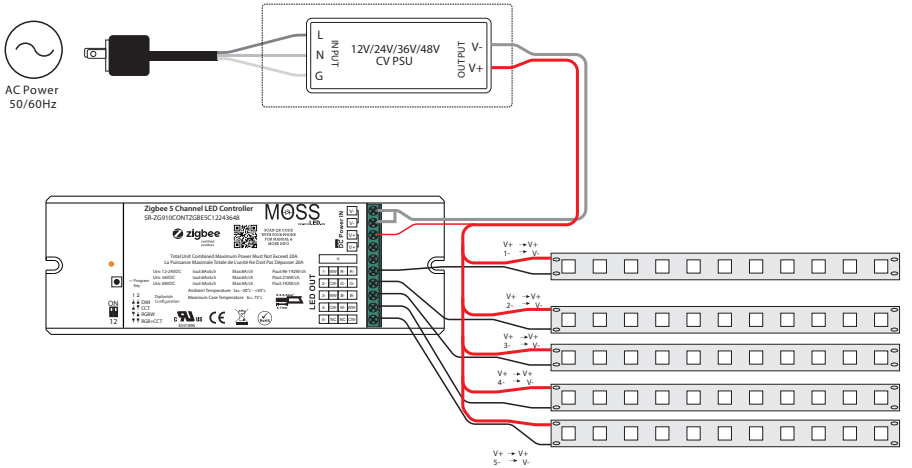
Option 2) When total current draw of LED exceeds 20 amps please follow this wiring diagram



DIM Mode Wiring Diagram :

Please ensure the dipswitches are in the DIM mode as show in the diagram
On the controller switch 1 and 2 must be in the down position

Option 1) When total current draw of LED is under 20 amps please follow this wiring diagram



Option 2) When total current draw of LED exceeds 20 amps please follow this wiring diagram