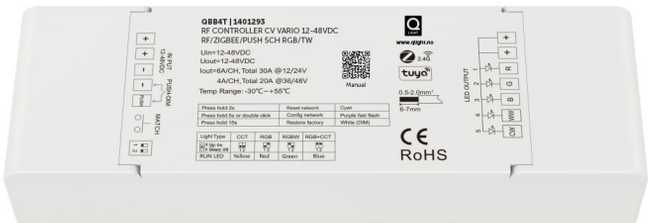
# QBB4T | 1401293

## RF CONTROLLER CV VARIO 12-48VDC RF/ ZIGBEE/PUSH 5CH RGB/TW

Zigbee + RF

- 5 in 1 function, used for control RGB, RGBW, RGB+CCT, color temperature or single color LED strip.
- DC12-48V input, 5 channel constant voltage output.
- Tuya APP cloud control, support on/off, RGB color, color temperature and brightness adjust, delay turn on/off light,timer run, scene edit and music play function.
- Philips HUE APP control by connect with Philips HUE bridge.
- Voice control, support for Amazon Alexa, Google Assistant, Tmall Genie and Xiaodu smart speakers.
- Match with RF 2.4G remote control optional.
- User need set light type before Tuya APP network connection and match RF remote of the same light type.
- Each V5-L(WZ) controller can also work as ZigBee-RF converter, then use Tuya APP to control one or more RF LED controller or RF LED dimming driver synchronously.
- PWM frequency 500Hz, 2000Hz, 8000Hz or 16000Hz selectable.
- Light on/off fade time 3s selectable.
- Connect with external push switch to achieve on/off and 0-100% dimming function.




CE RoHS emc LVD RED

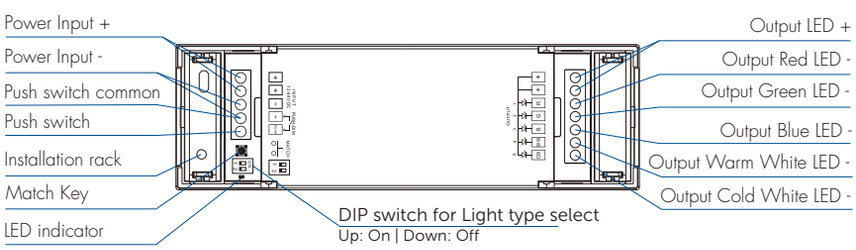
## Technical Parameters

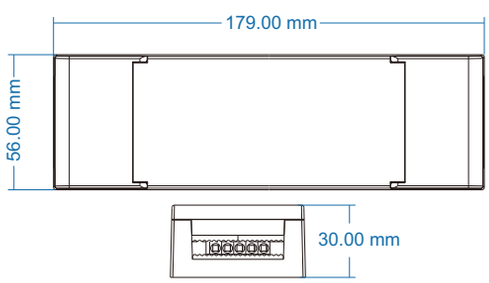
| Input and Output | |
|---|---|
| Input voltage | 12-48VDC |
| Input current | 30.5A |
| Output voltage | 5 x (12-48)VDC |
| Output current | 6A/CH@12-24V<br>4A/CH@36-48V |
| Output type | Constant voltage |
| **Warranty and Protection** | |
| Warranty | 5 years |
| Protection | Reverse polarity<br>Short circuit<br>Over heat |

| Dimming data | |
|---|---|
| Input signal | Tuya APP + RF 2.4GHz + Push-DIM |
| Control distance | 30m(Barrier-free space) |
| Dimming gray scale | 4096 (2^12) levels |
| Dimming range | 0-100% |
| Dimming curve | Logarithmic |
| PWM Frequency | 2000Hz (default) |
| **Environment** | |
| Operation temperature | Ta: -30 °C ~ +55°C |
| Case temperature (Max.) | Tc: +85°C |
| IP rating | IP20 |

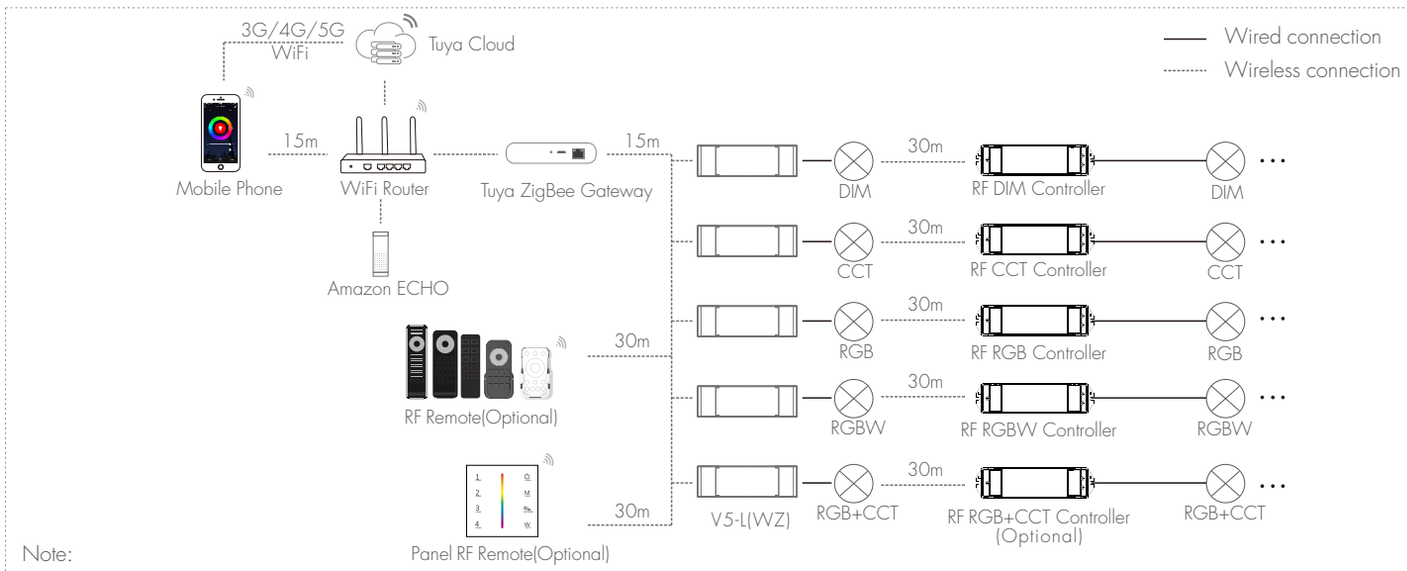
| Safety and EMC | |
|---|---|
| EMC standard (EMC) | ETSI EN 301 489-1 V2.2.3<br>ETSI EN 301 489-17 V3.2.4 |
| Safety standard(LVD) | EN 62368-1:2020+A11:2020 |
| Radio Equipment(RED) | ETSI EN 300 328 V2.2.2 |
| Certification | CE,EMC,LVD,RED |
| **Package** | |
| Size | L187x W60 x H40mm |
| Gross weight | 0.188kg |

## Mechanical Structures and Installations



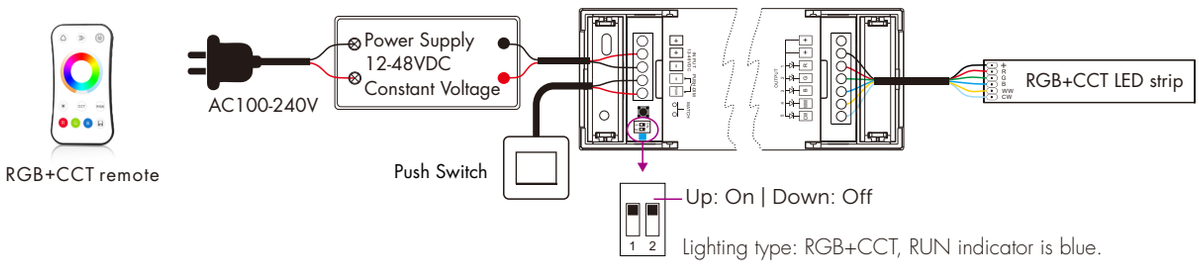

## System wiring




Note:

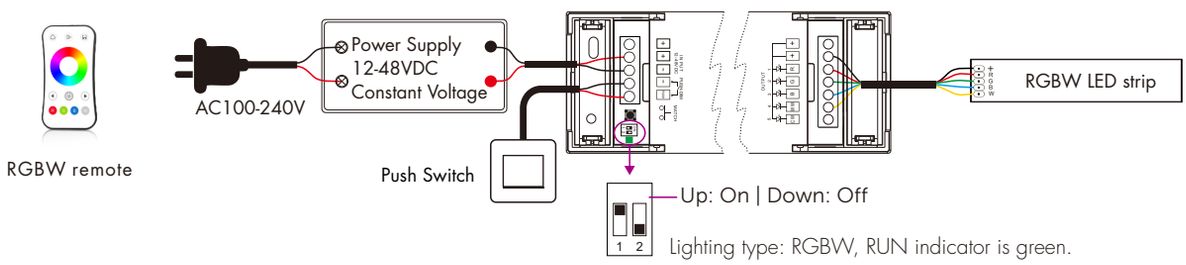
1. The above distance is measured in spacious (no obstacle) environment, please refer to the actual test distance before installation.
2. Users must use the Tuya ZigBee gateway to realize remote control and voice control.

- For RGB+CCT



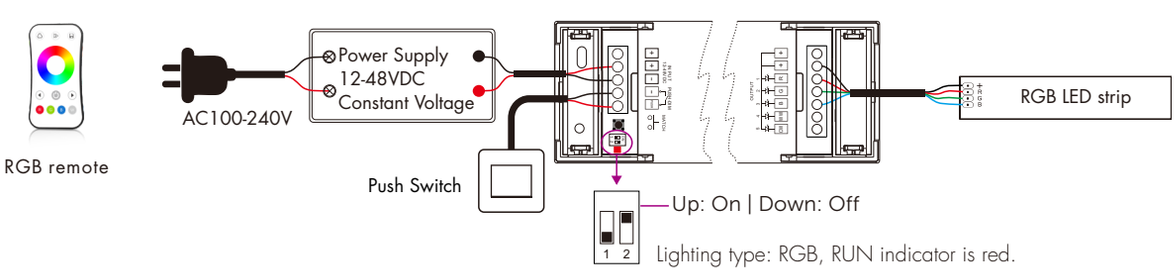

Lighting type: RGB+CCT, RUN indicator is blue.

- For RGBW



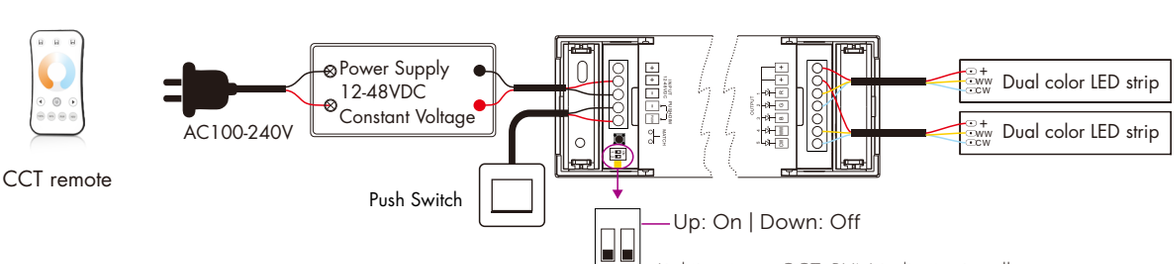

Lighting type: RGBW, RUN indicator is green.

- For RGB



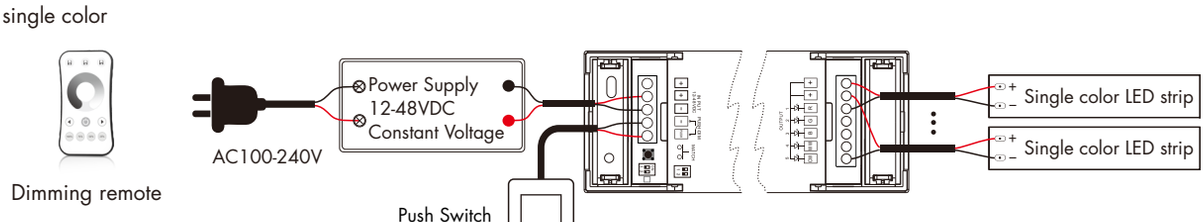

Lighting type: RGB, RUN indicator is red.

- For dual color CCT




Lighting type: CCT, RUN indicator is yellow.

- For single color




Press and hold MATCH key for 15s, until the RUN LED indicator turn white, then release, the controller will become DIM type, the light on/off time also restore to 0.5s, the output PWM frequency also restore to 2000Hz.

Note:

1. After changed the light type by DIP switch, please redo the tuya APP config operation.
2. For RGB+CCT or CCT light type, continuous power on and off will change 3 levels color temperature (WW, NW and CW) in sequence.
3. Switch off the power, then switch on power, repeat again. Immediately short press match key 3 times, the light on/off time will change between 3s and 0.5s.