

# V2-Q(D), V2-Q(U)

CCT

## 2-Button Color Temperature Constant Voltage LED Controller



V2-Q(D)

V2-Q(U)

- 2-button color temperature LED controller with 2-channel constant voltage output.
- The buttons support on/off light, adjust brightness, color temperature, dynamic mode and dynamic speed.
- 4096 levels dimming smoothly without any flash.
- Light on fade time 1s, light off fade time 2s.
- 2000Hz or 8000Hz PWM frequency can be set.
- Apply to table lamps, wall lamps, bedside lamps and so on.

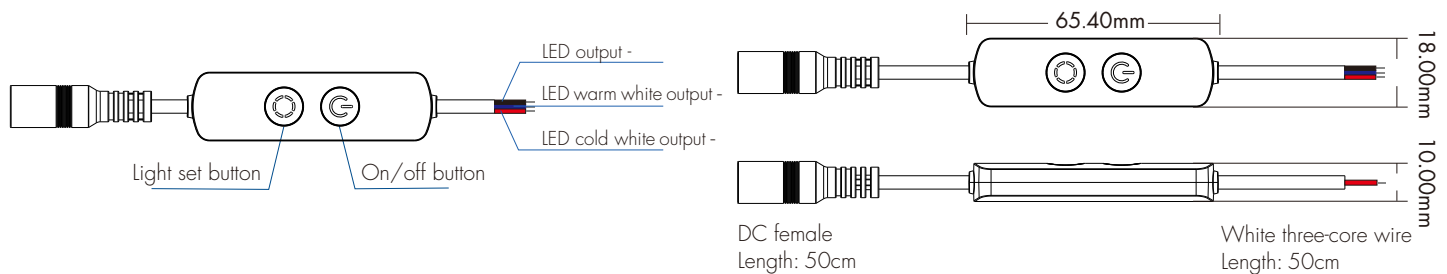
CE RoHS

### Technical Parameters

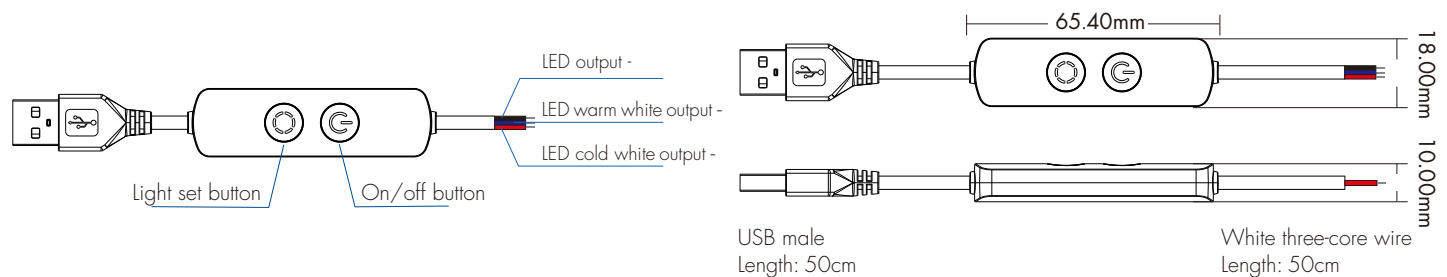
Input and Output		Dimming data		Safety and EMC	
Input voltage	V2-Q(D): 5-24VDC V2-Q(U): 5VDC	Dimming gray scale	4096 levels	EMC standard	EN IEC 55015 EN IEC 61547
Output voltage	V2-Q(D): 5-24VDC V2-Q(U): 5VDC	Dimming curve	Linear	Safety standard	EN 61347-1/-2 EN 62493
Output current	2CH, 1.5A/CH	PWM Frequency	2000Hz/8000Hz	Certification	CE RoHS
Output power	V2-Q(D): 1.5-72W V2-Q(U): 1.5W				
Output type	Constant Voltage	Environment			
<b>Warranty and Protection</b>		Operation temperature	Ta: -20°C ~ +55°C	<b>Package</b>	
Warranty	5 years	Case temperature (Max.)	Tc: +85°C	Size	L114 x W38 x H26mm
Protection	Reverse polarity	IP rating	IP20	Gross weight	0.044kg

### Mechanical Structures and Installations

V2-Q(D):

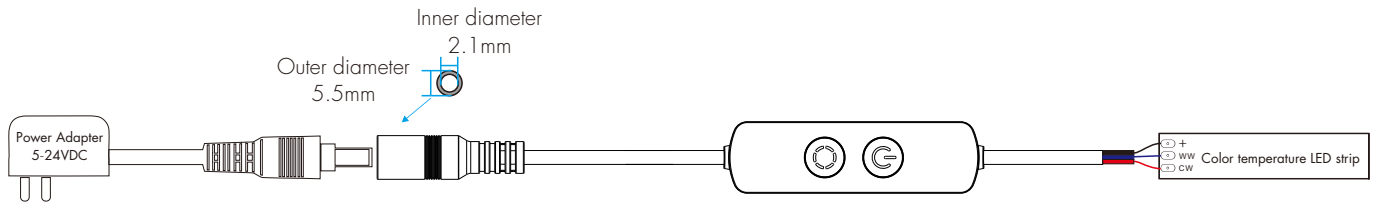


V2-Q(U):

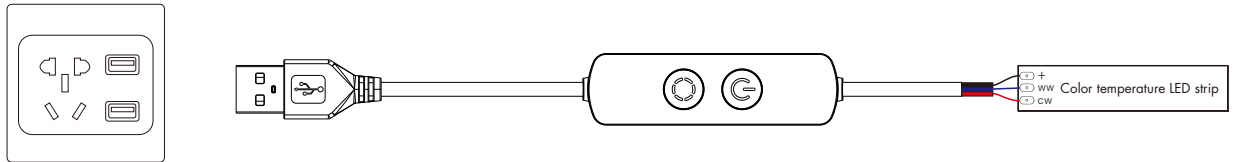


## Wiring Diagram

### • V2-Q(D) Wiring



### • V2-Q(U) Wiring(Output connected to 5V LED strip)



#### Note:

1. The LED strip connected to the V2-Q(D) output must match the power adapter output voltage.
2. V2-Q(U) supports USB socket, mobile phone adapter, computer USB port power supply.

## Button Function




**Short press:** Turn on/off the light.  
**Long press (1-6s):** Continuous brightness adjustment, dimming range 5-100%.



**Short press:** Enter static mode, and switch 5 levels color temperature, from warm white to cool white.  
**Double click:** Enter dynamic mode and switch 2 dynamic modes (color temperature fade, color temperature jump).  
 Color temperature jump in the order of warm white - neutral white - cool white.  
**Long press:** In static mode, long press for 1-6s to adjust the color temperature,  
 In dynamic mode, long press for 2s to sequentially switch 5 levels of dynamic change speed.  
 The color temperature fade speed is switched in the order of 1s, 2s, 5s, 10s, 30s;  
 the color temperature jump speed is switched in the order of 0.3s, 0.5s, 1s, 2s, 5s.  
 Every time you enter dynamic mode, the default fade/jump speed starts from 1s.

#### Set PWM frequency (factory default 2000Hz):

Press and hold  key and  key at the same time for 2s to set the PWM frequency to 2000Hz and the output LED blinks 1 time.

Press and hold  key and  key at the same time for 5s to set the PWM frequency to 8000Hz and the output LED blinks 2 times.

## Dual Color Control

WW = Warm white LED CW = Cool white LED Each channel can supply up to 36W(@ 24V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	WW=0W, CW=36W	WW=18W, CW=18W	WW=36W, CW=0W

