

V1-A-1 Single Button Dimming Constant Voltage LED Controller



V1-A-1 Single Button Dimming Constant Voltage LED Controller Instructions

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V1-A-1

V1-A-1 Single Button Dimming Constant Voltage LED Controller



Specifications

- Input and Output:
 - Input voltage: 5-24VDC
 - Output voltage: 5-24VDC
 - Output current: Max. 4A
 - Output type: Constant voltage
- Dimming data:
 - Dimming gray scale: 256 levels
 - Dimming range: 1 – 100%
 - Dimming curve: Logarithmic
 - PWM Frequency: 2KHz (default)
- Safety and EMC:
 - EMC standard: EN IEC 55015:2019+A11:2020
 - Safety standard(LVD): EN 61547:2009
 - Certification: CE, EMC, LVD
- Environment:
 - Operation temperature: -30°C ~ +55°C
 - IP rating: IP20

Product Usage Instructions

Button Functions

1. On/Off and Brightness Adjustment:

- Short press: Turn on/off the light.
- Long press (1-6s): Step-less dimming. With every other long press, the light level goes to the opposite direction. Dimming range is from 1% to 100%.

2. Output PWM Frequency Setting:

- Within 3s of controller power-up, press the SET button 3 times in quick succession to set PWM frequency to 500Hz.
- Within 3s of controller power-up, press the SET button 4 times in quick succession to set PWM frequency to 2000Hz.
- Within 3s of controller power-up, press the SET button 5 times in quick succession to set PWM frequency to 8000Hz.

Installation Notes

1. Cut an 8.5mm diameter hole on the PC cover.
2. Apply 3M adhesive on the back of the controller and place it into the aluminum profile, aligning the button with the hole.
3. Do not install with electricity.
4. Pay attention to power input and LED output polarity.
5. Good heat dissipation will prolong the working life of the controller. Ensure good ventilation.

FAQ

• Q: How do I adjust the brightness of the LEDs with this controller?

A: You can adjust the brightness by short pressing for on/off and long pressing (1-6s) for step-less dimming. With every other long press, the light level goes in the opposite direction within a dimming range of 1% to 100%.

• Q: How do I set the PWM frequency on this LED controller?

A: Within 3 seconds of controller power-up, press the SET button multiple times in quick succession to select between PWM frequencies of 500Hz, 2000Hz, or 8000Hz.

V1-A

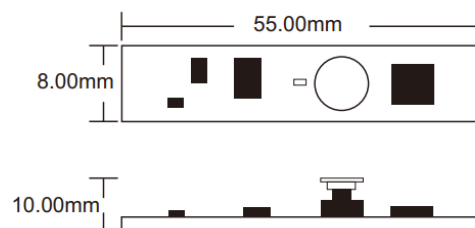
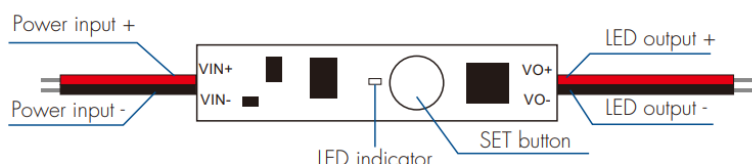
Single Button Dimming Constant Voltage LED Controller

- 1 channel constant voltage LED dimmer.
- Turn on/off the light and adjust brightness via one button.
- Output PWM frequency 500Hz, 2KHz, 8KHz selectable.
- Logarithmic dimming curve.

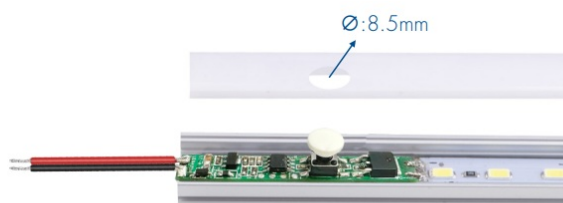
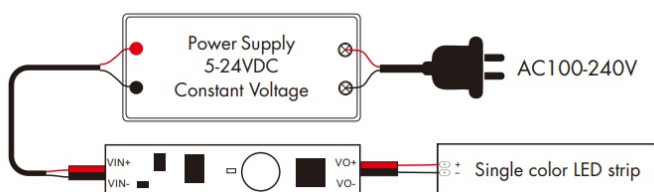
Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	5-24VDC	Dimming gray scale	256 levels	EMC standard (EMC)	EN IEC 55015:2019+A11:2020 EN 61547:2009
Output voltage	5-24VDC	Dimming range	1 - 100%		EN IEC 61000-3-2:2019+A11:2021 EN 61000-3-3:2013+A11:2019
Output current	Max. 4A	Dimming curve	Logarithmic		EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Output type	Constant voltage	PWM Frequency	2KHz(default)	Certification	CE, EMC, LVD
Warranty and Protection		Package		Environment	
Warranty	5 years	Size	L90xH130mm	Operation temperature	Ta: -30°C ~ +55°C
Protection	Reverse polarity	Gross weight	0.012kg	IP rating	IP20

Mechanical Structures and Installations



Wiring Diagram



Installation Notes

1. Cut an 8.5mm diameter hole on the PC cover.
2. After applying 3M adhesive on the back of the controller, place the controller into the aluminum profile and align the button with the hole.
3. Do not install with electricity.
4. Pay attention to power input and LED output polarity.
5. Good heat dissipation will prolong the working life of the controller, please ensure good ventilation.

Button Function

1. On/Off and brightness adjustment

- Short press : Turn on/ off the light.
- Long press(1-6s): Step-less dimming, with every other long press, the light level goes to the opposite direction, dimming range 1%- 100%.

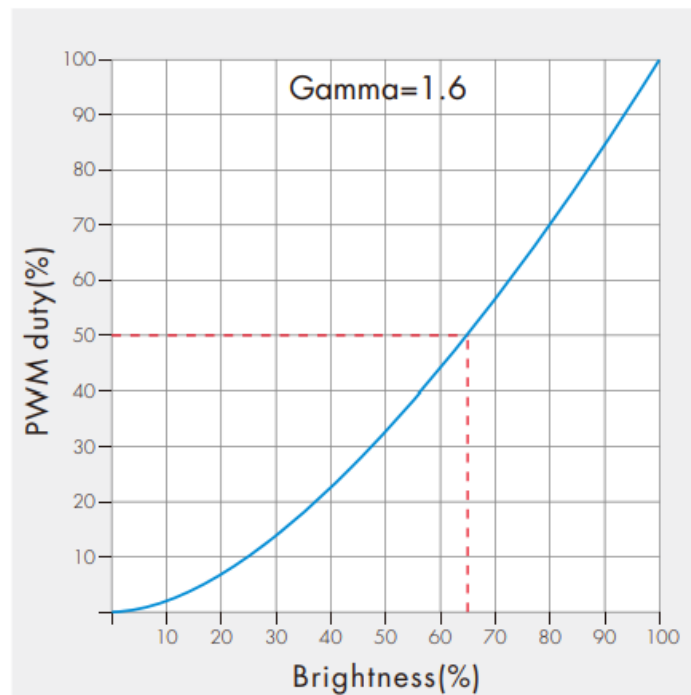
2. Output PWM frequency setting

- Within 3s of controller power-up, press the SET button 3 times in quick succession, the PWM frequency is set to 500 Hz, the indicator light blink 3 times;
- Within 3s of controller power-up, press the SET button 4 times in quick succession, the PWM frequency is

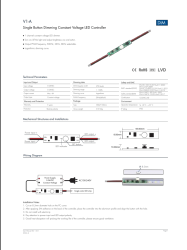
set to 2000 Hz, the indicator light blink 4 times;

- Within 3s of controller power-up, press the SET button 5 times in quick succession, the PWM frequency is set to 8000 Hz, the indicator light blink 5 times.

Dimming Curve



Documents / Resources

	<p>DIM V1-A-1 Single Button Dimming Constant Voltage LED Controller [pdf] Instructions</p> <p>V1-A-1 Single Button Dimming Constant Voltage LED Controller, V1-A-1, Single Button Dimming Constant Voltage LED Controller, Dimming Constant Voltage LED Controller, Constant Voltage LED Controller, Voltage LED Controller, LED Controller, Controller</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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