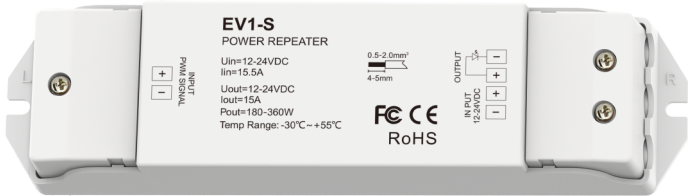


1 Channel Constant Voltage Power Repeater

- 12-24V constant voltage power repeater.
- one channel, 15A.
- To receive PWM signal control.
- Parallel connection enables unlimited output power expansion.
- Apply to single color constant voltage LED strip or module.

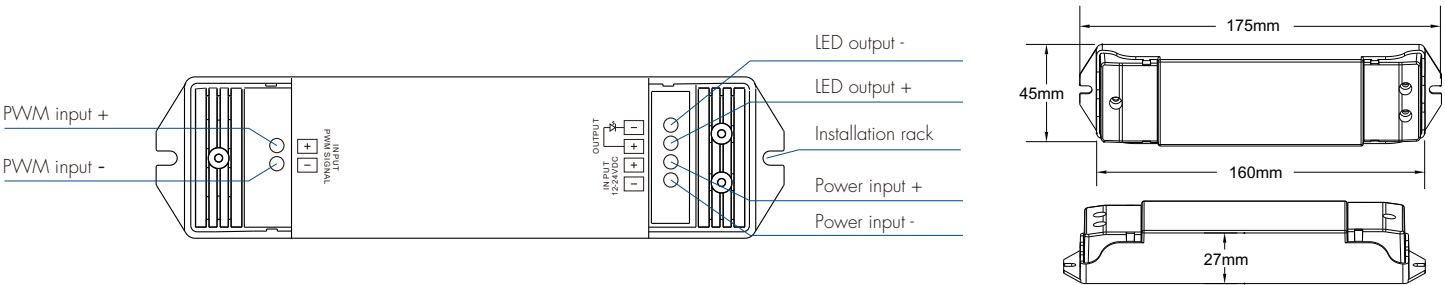


FC CE RoHS

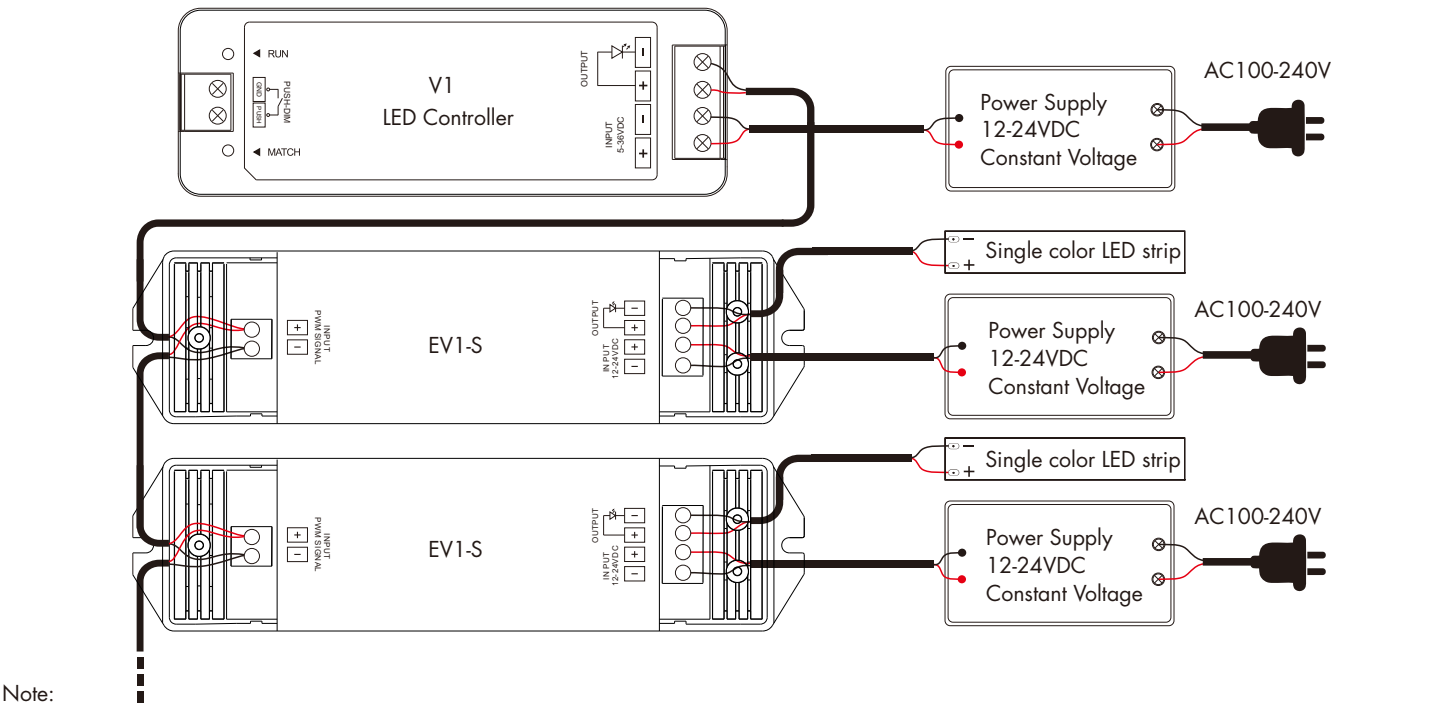
Technical Parameters

| Input and Output |                  | Warranty and Protection |                  | Safety and EMC  |                           |
|------------------|------------------|-------------------------|------------------|-----------------|---------------------------|
| Input voltage    | 12-24VDC         | Warranty                | 5 years          | EMC standard    | EN IEC 55015/EN IEC 61547 |
| Input current    | 15.5A            | Protection              | Reverse Polarity | Safety standard | EN 61347-1/-2             |
| Input signal     | PWM              | Environment             |                  | Certification   | CE RoHS FCC               |
| Output voltage   | 12-24VDC         |                         |                  | Package         |                           |
| Output current   | 15A              |                         |                  | Size            | L178 x W50 x H38mm        |
| Output power     | 180-360W         | Operation temperature   | Ta: -30℃ ~ +55℃  | Gross weight    | 0.12kg                    |
| Output type      | Constant voltage | Case temperature (Max.) | Tc: +85℃         |                 |                           |
|                  |                  | IP rating               | IP20             |                 |                           |

Mechanical Structures and Installations



Wiring Diagram



**Note:**  
If the input PWM frequency is  $\geq 8000\text{Hz}$ , it is recommended to reduce the output current to below 70% to avoid overheating and affecting the service life of the product.

Malfunctions Analysis & Troubleshooting

| Malfunctions                                              | Causes                                                                                                                                                     | Troubleshooting                                                                                                       |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| No light                                                  | 1. No power.<br>2. Wrong connection or insecure.                                                                                                           | 1. Check the power.<br>2. Check the connection.                                                                       |
| Uneven intensity between front and rear,with voltage drop | 1. Output cable is too long.<br>2. Wire diameter is too small.<br>3. Overload beyond power supply capability.<br>4. Overload beyond controller capability. | 1. Reduce cable or loop supply.<br>2. Change wider wire.<br>3. Replace higher power supply.<br>4. Add power repeater. |

Safety & Warnings

- 1. The product shall be installed and serviced by a qualified person.
- 2. This product is non-waterproof. Please avoid the sun and rain.
- 3. Good heat dissipation will prolong the working life of the controller,Please ensure good ventilation.
- 4. Please check if the output voltage of any power supplies used comply with the working voltage of the product.
- 5. Ensure all wire connections and polarities are correct and secure before applying power to avoid any damages to the LED lights.
- 6. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.

FCC Statement:

This device complies with Part 15 of the FCC Rules. operation is subject to the following two conditions:

- (1)this device may not cause harmful interference, and
- (2)this device must accept any interference received, including interference that may cause undesired operation.

**IC Statement:** This Class B digital apparatus complies with Canadian ICES-003.  
(Cet appareil numérique de la Classe B conforme à la norme NMB-003 du Canada).