

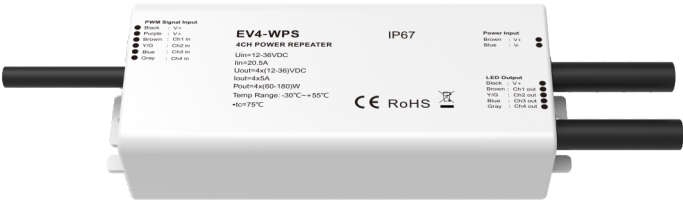
# Waterproof 4 Channel Constant Voltage Power Repeater

Model No.: EV4-WPS

IP67 waterproof/4 Channel/PWM signal input/Constant voltage output/3KV optoelectronic isolation

### Features

- Waterproof 12-36V constant voltage power repeater with IP67 rating, suitable for outdoor and damp environment.
- 4 channel, 5A per channel.
- To receive PWM signal control.
- Power repeater in series or in parallel to expand output unlimitedly.
- Apply to single color, dual color, RGB or RGBW constant voltage LED strip or module.

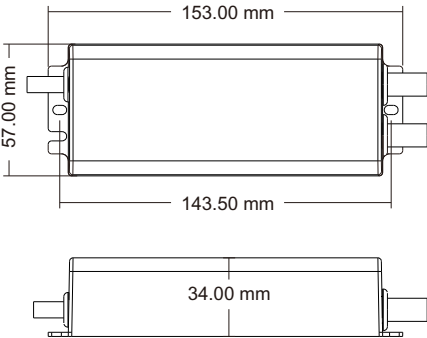
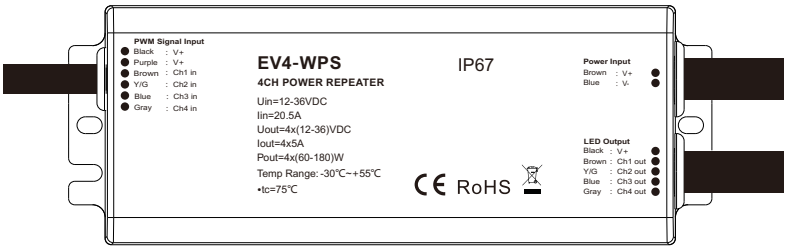


CE RoHS LVD

### Technical Parameters

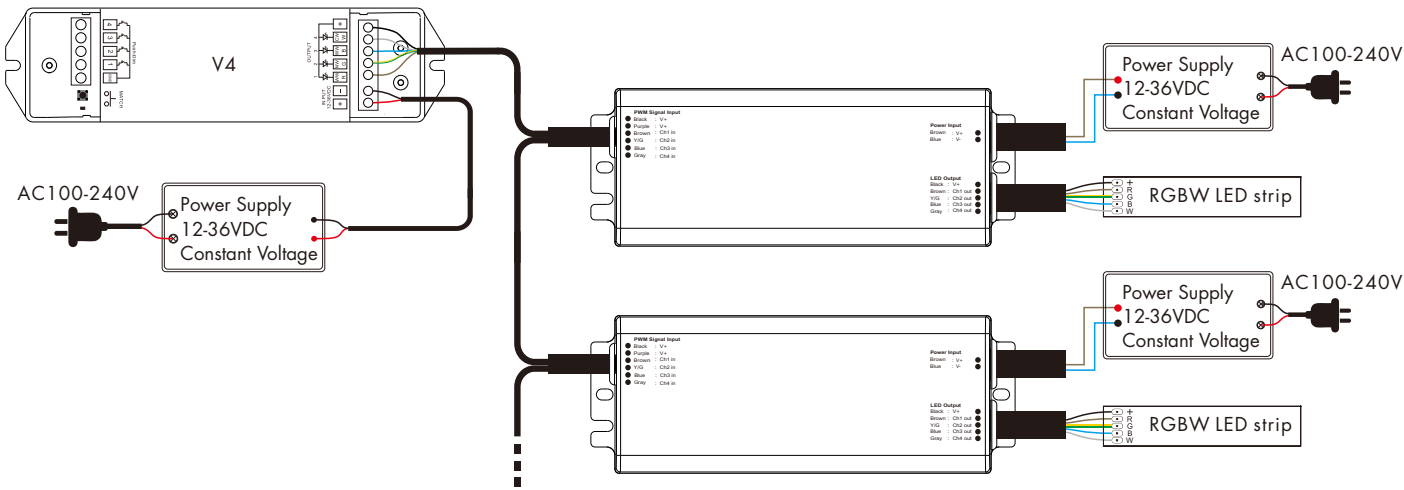
| Input and Output |                  | Safety and EMC       |                                                       | Warranty and Protection |                                                             |
|------------------|------------------|----------------------|-------------------------------------------------------|-------------------------|-------------------------------------------------------------|
| Input voltage    | 12-36VDC         | EMC standard (EMC)   | ETSI EN 301 489-1 V2.2.3<br>ETSI EN 301 489-17 V3.2.4 | Warranty                | 5 years                                                     |
| Input current    | 20.5A            | Safety standard(LVD) | EN 62368-1:2020+A11:2020                              | Protection              | Reverse Polarity<br>Over-heat<br>Over-load<br>Short circuit |
| Input signal     | PWM              | Radio Equipment(RED) | ETSI EN 300 328 V2.2.2                                | Environment             |                                                             |
| Output voltage   | 4 x (12-36)VDC   | Certification        | CE,EMC,LVD                                            | Operation temperature   | Ta: -30°C ~ +55°C                                           |
| Output current   | 4CH,5A/CH        | Package              |                                                       | Case temperature (Max.) | Tc:+75°C                                                    |
| Output power     | 4 x (60-180W)    | Size                 | L165 x W98 x H72mm                                    | IP rating               | IP67                                                        |
| Output type      | Constant voltage | Gross weight         | 0.492kg                                               |                         |                                                             |

### Mechanical Structures and Installations

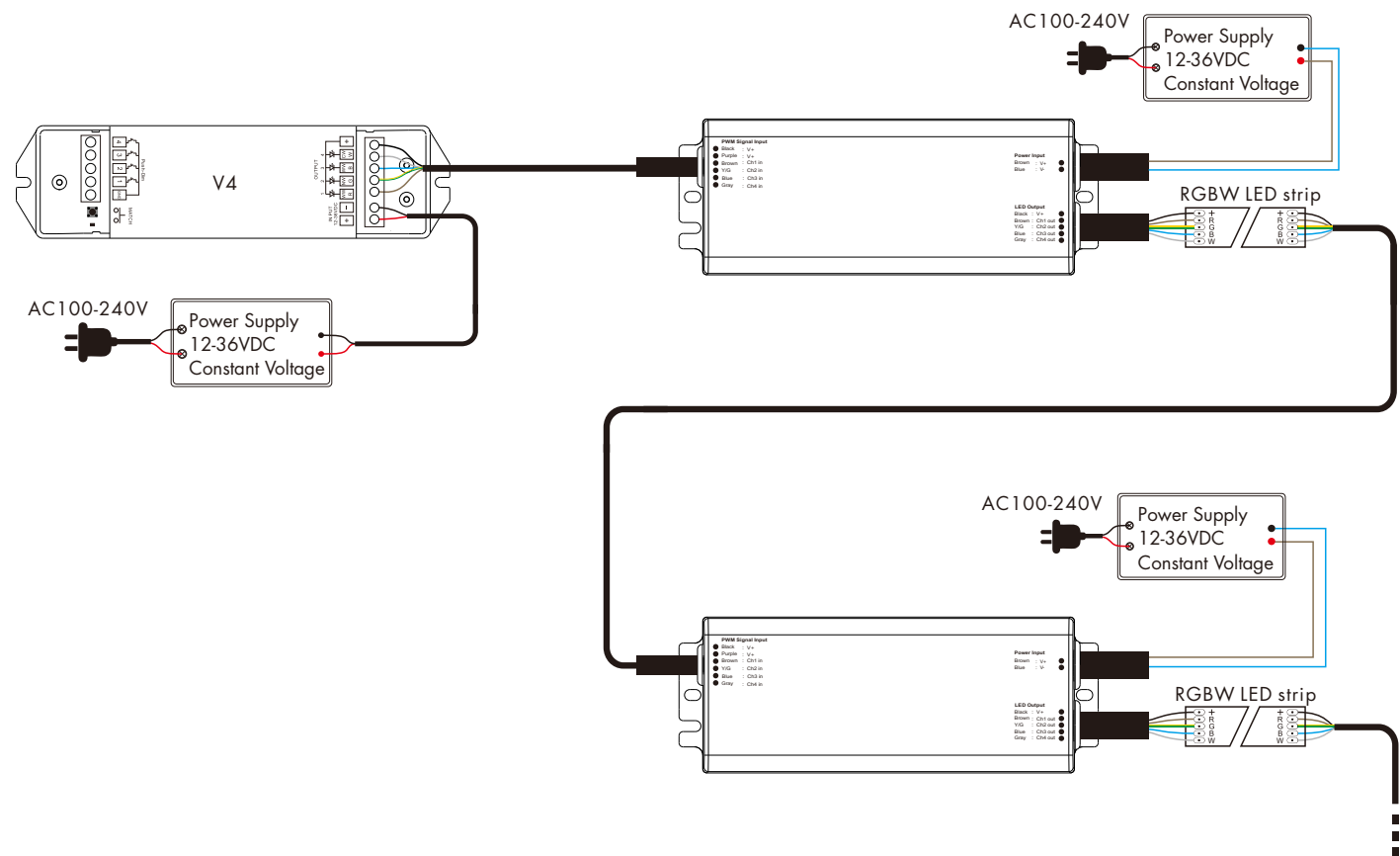


### Wiring Diagram

- Parallel connection



● Series connection



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.                                                                       |
| Wrong color                                               | 1. Wrong connection of R/G/B/W wires.                                                                                                                      | 1. Reconnect R/G/B/W wires.                                                                                           |
| 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. Good heat dissipation will prolong the working life of the controller, Please ensure good ventilation.
3. Please check if the output voltage of any power supplies used comply with the working voltage of the product.
4. Ensure all wire connections and polarities are correct and secure before applying power to avoid any damages to the LED lights.
5. If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.