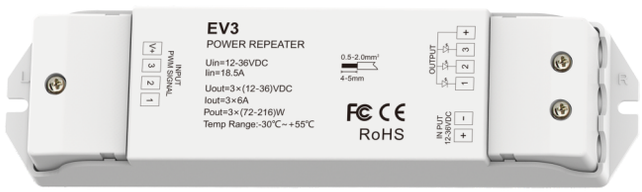
# EV3

**Power Repeater**

## 3 Channel Constant Voltage Power Repeater

- 12-36V constant voltage power repeater.
- 3 channel, 6A per channel.
- To receive PWM signal control.
- Parallel connection enables unlimited output power expansion.
- Apply to single color or RGB constant voltage LED strip or module.




FC CE RoHS

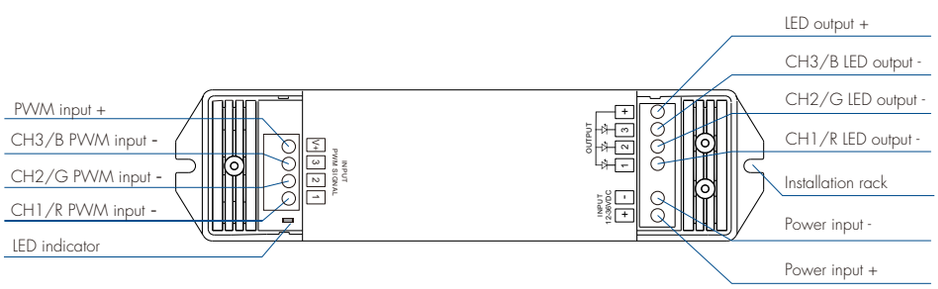
## Technical Parameters

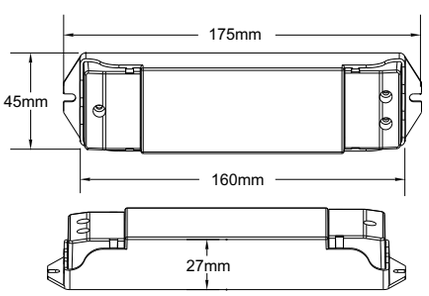
| Input and Output | |
|---|---|
| Input voltage | 12-36VDC |
| Input current | 18.5A |
| Input signal | PWM |
| Output voltage | 3 x (12-36)VDC |
| Output current | 3CH,6A/CH |
| Output power | 3 x (72-216)W |
| Output type | Constant voltage |

| Warranty and Protection | |
|---|---|
| Warranty | 5 years |
| Protection | Reverse polarity<br>Over-heat<br>Short circuit |
| **Environment** | |
| Operation temperature | Ta: -30℃ ~ +55℃ |
| Case temperature (Max.) | Tc: +85℃ |
| IP rating | IP20 |

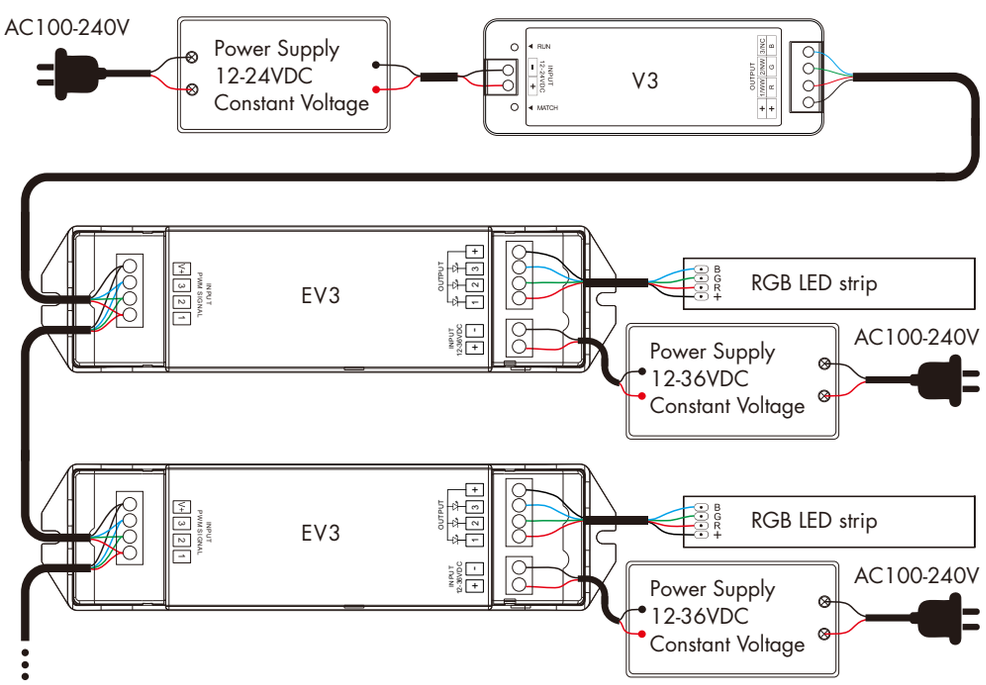
| Safety and EMC | |
|---|---|
| EMC standard | EN IEC 55015/EN IEC 61547 |
| Safety standard | EN 61347-1/-2 |
| Certification | CE RoHS FCC |
| **Package** | |
| Size | L178 x W50 x H38mm |
| Gross weight | 0.134kg |

## Mechanical Structures and Installations




## Wiring Diagram




Note:

1. When the power repeater is overheated or short-circuited, the LED indicator will keep flashing.
2. If the input PWM frequency is ≥ 8000Hz, it is recommended to reduce the output current to below 70% for use to avoid the product overheating to activate the overheat protection.

## 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 wires. | 1. Reconnect R/G/B 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. 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).