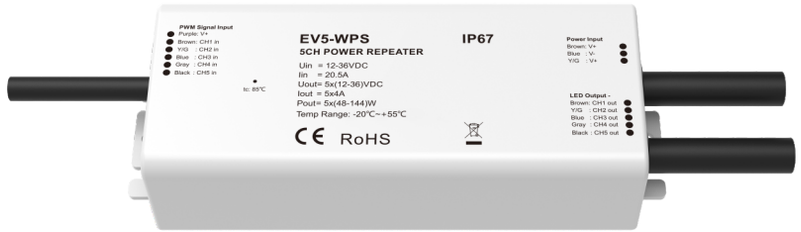
Power Repeater

EV5-WPS

Waterproof 5 Channel Constant Voltage Power Repeater



CE RoHS

Features

- Waterproof 12-36V constant voltage power repeater with IP67 rating, suitable for outdoor and damp environment.
- 5 channel, 4A per channel.
- To receive PWM signal control.
- Parallel connection enables unlimited output power expansion.
- Apply to single color, dual color, RGB , RGBW or RGB+CCT constant voltage LED strip or module.

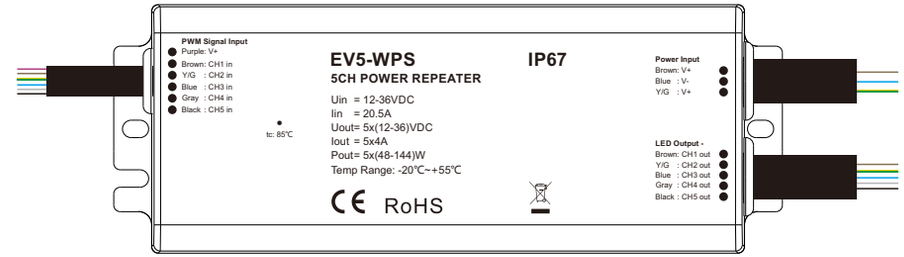
Technical Parameters

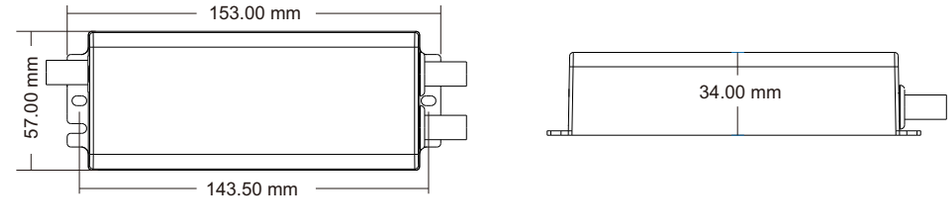
Input and Output	
Input voltage	12-36VDC
Input current	20.5A
Input signal	PWM
Output voltage	5 x (12-36)VDC
Output current	5CH, 4A/CH
Output power	5 x (48-144W)
Output type	Constant voltage

Environment	
Operation temperature	Ta: -20℃ ~ +55℃
Case temperature (Max.)	Tc: +85℃
IP rating	IP67
Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity Over-heat Over-load Short circuit

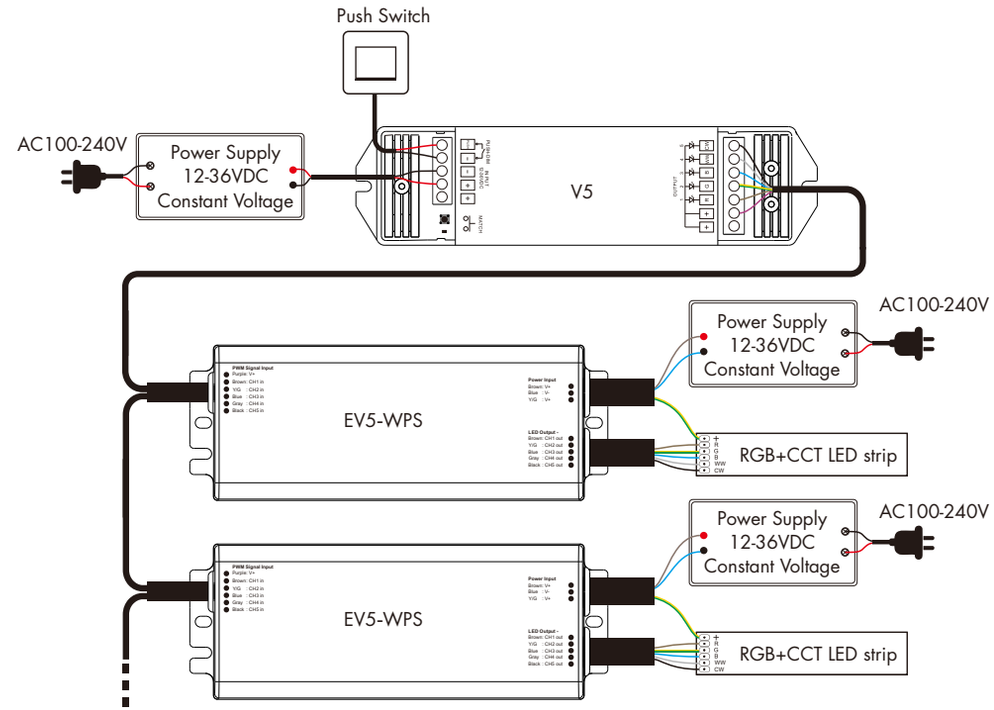
Safety and EMC	
EMC standard	EN IEC 55015/ EN IEC 61547
Safety standard	EN 61347-1/-2
Certification	CE RoHS
Package	
Size	L165 x W98 x H72mm
Gross weight	0.492kg

Mechanical Structures and Installations





Wiring Diagram



Note:

1. When the power repeater is overheated, overloaded or short-circuited, no output at load.
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 overheat protection

Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Wrong color	1. Wrong connection of R/G/B/WW/CW wires.	1. Reconnect R/G/B/WW/CW wires.
Uneven intensity between front and rear,with voltage drop	1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability.	1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 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.