

# LCDRSD-EV3-H

## 3 Channel Constant Voltage Data Repeater



### Features

- High Maximum Voltage (12-60VDC)
- Reverse Polarity Protection
- Covered Connections
- 3KV Optoelectronic Isolation
- Compatible with Single Colour, Dual Colour, RGB or RGBW Constant Voltage LED Strip/Modules

### Applications

- Extending RGB strip loads when the RGB controller has insufficient capacity
- Bars, restaurants, office and home lighting
- Single colour dimming using the individual channels

### Technical Parameters

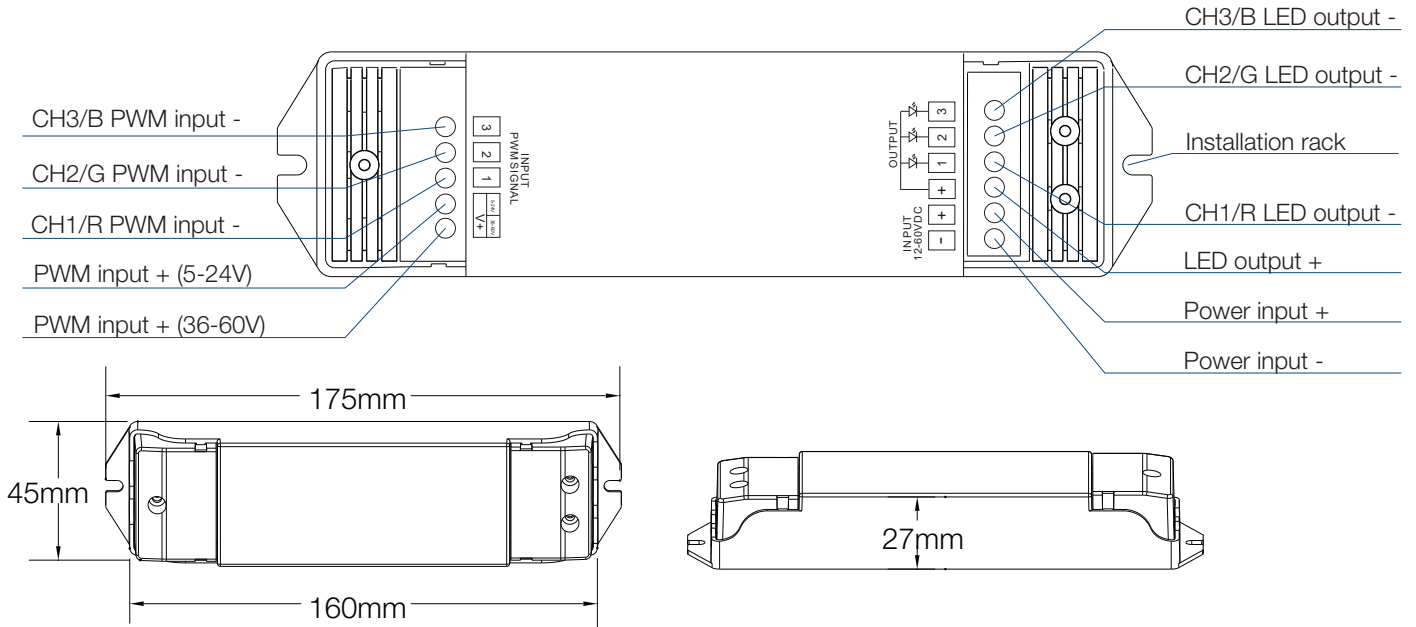
Input and Output	
Input voltage	12-60VDC
Input current	15A max
Input signal	PWM(3/4CH, 5-24V or 36-60V)
Output voltage	3 x (12-60) VDC
Output current	3CH x 5A max
Output power	3 x (60-30)W max
Output type	Constant Voltage

Safety & EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard	EN 62368-1:2020+A11:2020

Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity

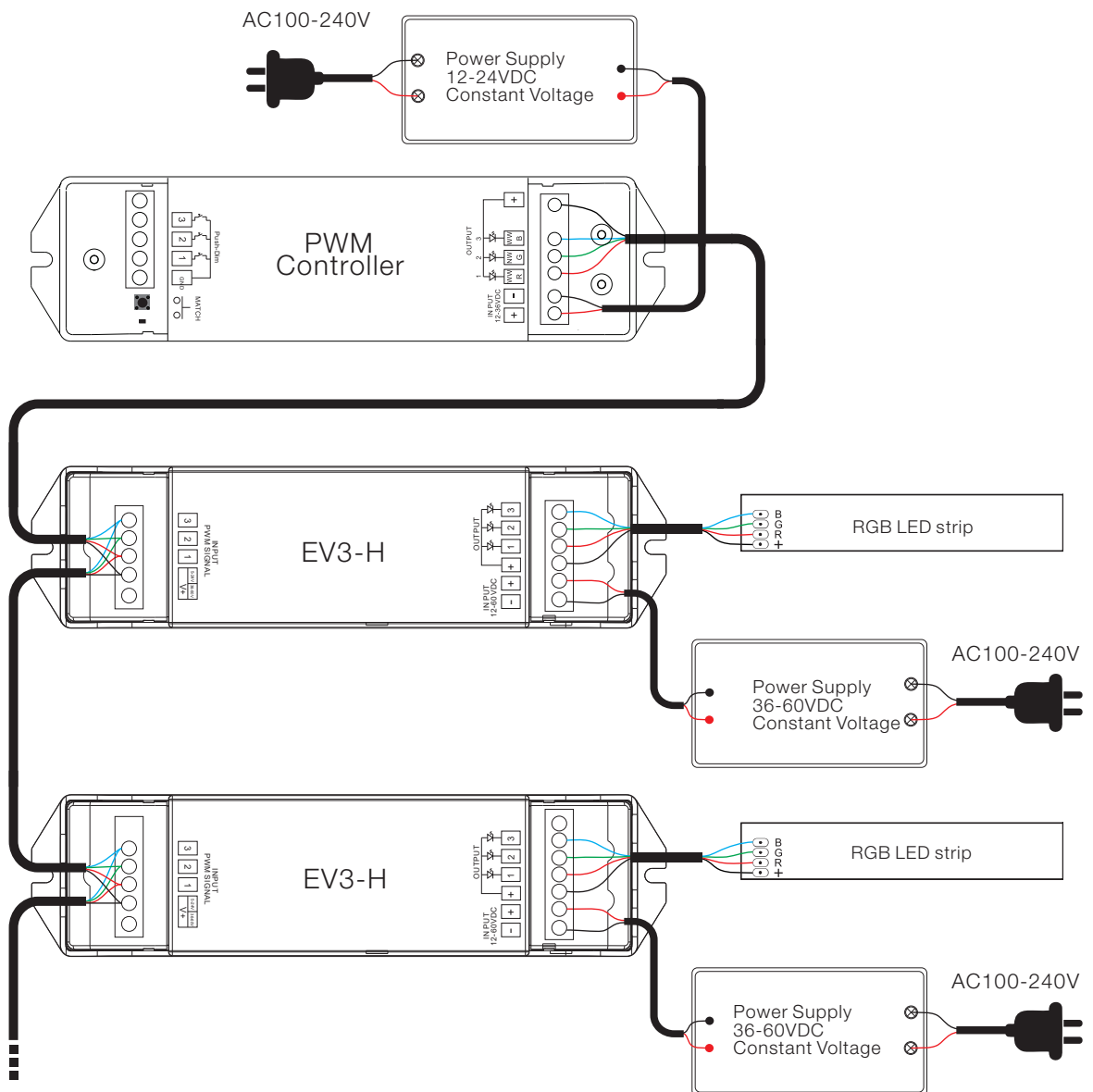
Environment	
Operation temperature	Ta: -30°C ~ +55°C
Max case temperature	Tc: +85°C
IP rating	IP20

# Mechanical Structures and Installations

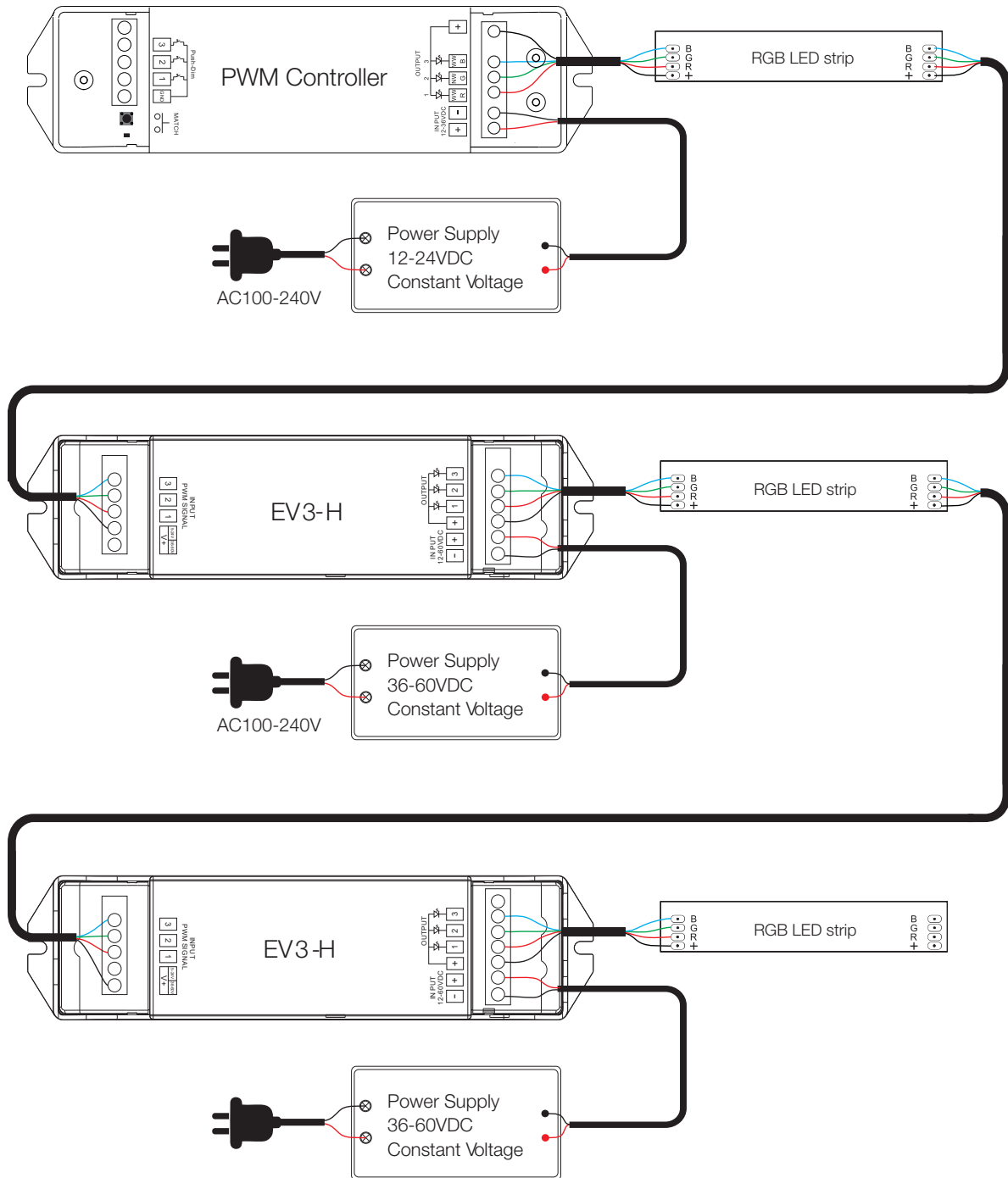


# Wiring Diagram

## Parallel Connection



## Series Connection



## Malfunctions Analysis & Troubleshooting

Malfunction	Causes	Troubleshooting
No light	<ol style="list-style-type: none"> <li>1. No power</li> <li>2. Wrong connection or insecure</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the power</li> <li>2. Check the connection</li> </ol>
Wrong Colour	<ol style="list-style-type: none"> <li>1. Wrong connection of R/G/B wires</li> </ol>	<ol style="list-style-type: none"> <li>1. Reconnect R/G/B wires</li> </ol>
Uneven intensity between front and rear, with voltage drop	<ol style="list-style-type: none"> <li>1. Output cable is too long</li> <li>2. Wire diameter is too small</li> <li>3. Overload beyond power supply capability</li> <li>4. Overload beyond controller capability</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce cable or loop supply</li> <li>2. Increase cable size</li> <li>3. Increase wattage of power supply</li> <li>4. Add data repeater</li> </ol>

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