

Important: Read all instructions prior to installation.

Waterproof RGB Amplifier for RGB Controllers

Summary

MRGB-A4 series three channel RGB amplifier. Maximum 4 Amps per channel/12 Amps total. Used to increase the load capability and extend the signal of the universal RGB controllers.

Specifications

| | |
|--------------------------|----------------------------------------|
| Supply Voltage | DC12V |
| Product Size | 3.74" x 2" x 1.2" (95mm x 52mm x 30mm) |
| Max Load Current | 4 Amps/Channel (12 Amps total) |
| Net weight | .22lbs (100g) |
| Output | 3 Channel |
| Connection mode | Common Anode |
| Output Power | 144 Watts Maximum |
| Static Power Consumption | <1 Watt |
| IP Rating | Waterproof IP67 |



Safety

- Supply voltage of this product is 12 Volts DC, do not exceed
- Shorting output wires may cause damage to amplifier
- Always observe proper polarity when connecting power and load

Installation

1. Power Supply

Power supply needed for operation.

2. Auxiliary Power Supply Connections

Red (positive) and black (negative) wires can be joined with butt connectors, wire nuts, or wire terminals. Additional power wires are also needed to run the amplifier.

3. LED Controller Wiring Colors

LED controller has four wires that connect to the strip: blue, red, green, and black.

4. Controller to Strip Wiring

Four connections occur with the wire nuts. The blue wire from the controller connects to the blue wire from the RGB strip. The red wire from the controller connects to the red wire from the RGB strip. The green wire from the controller connects to the green wire from the RGB strip. Lastly, the black wire from the controller connects to the black wire on the RGB strip.

5. Amplifier Wiring Colors

LED amplifier has red (positive) and black (negative) for power. Both sides have white, red, green and blue wires, which connect between the RGB strips.

6. Connecting the Amplifier to the Strip

All Input signal wires connect from the previous Strip in-line to the Amplifier.

Wire the Input Red wire to the previous Strip's Red output wire(-).

Wire the Input Green wire to the previous Strip's Green output wire(-).

Wire the Input Blue wire to the previous Strip's Blue output wire(-).

Wire the Input White wire to the previous Strip's Black output wire(+).

All Output signal wires connect from the Amplifier to the next Strip.

Wire the Output Red wire to the next Strip's Red output wire(-).

Wire the Output Green wire to the next Strip's Green output wire(-).

Wire the Output Blue wire to the next Strip's Blue output wire(-).

Wire the Output White wire to the next Strip's Black output wire(+).

