

RGB Amplifier



An RGB Amplifier allows you to increase size of your lighting installation where the overall wattage of the LED lighting you are using exceeds the load of the initial power supply.

The amplifier works by boosting the amount of power provided to the LEDs. Each amplifier therefore requires its own power supply, the size of which depends on the amount of LEDs you are aiming to power. For each amplifier you purchase you will also require an addition power supply, which is sold separately.

The RGB Amplifier is easy to install and uses standard terminal block connectors.

Before installing this product, please read this manual carefully to ensure full understanding of the specification to avoid unnecessary damage.

Features

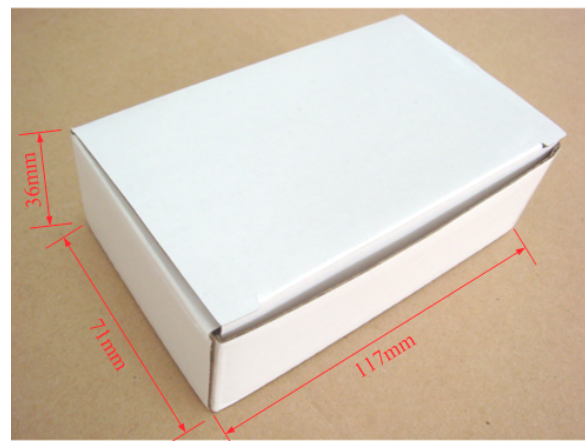
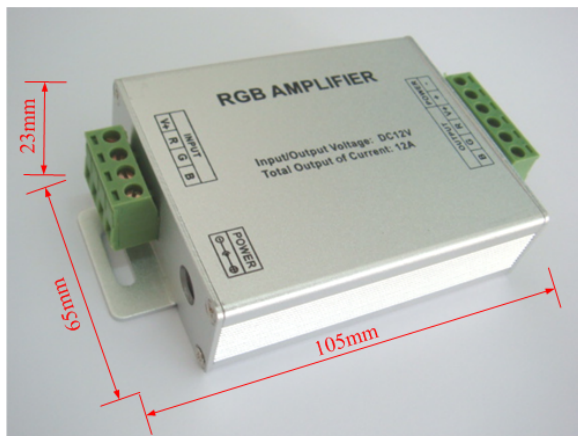
- Accepts PWM signals
- Connect more than 1 LED unit

Technical Specifications

Amplifier :

- Operating Temperature: -20°C +60°C
- Supply Voltage: DC 12V-24V
- Output: 3 channels
- Connection mode: Common Anode
- Static power consumption: <1W
- Output current: 4A x 3Ch = 12A 4A per channel
- Amplifier dimensions: L 105 X W 65 X H 23mm
- Package size: L 117 X W 71 X H 36mm
- Net Weight: 110g
- Gross Weight: 140g

External dimension:

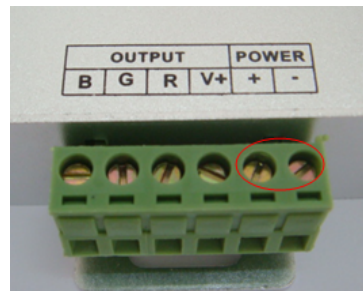


Interface Specifications:

Power input interface (port 1):



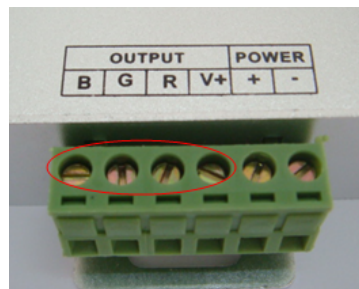
Power input interface (port 2):



Signal input interface:



Load output interface:



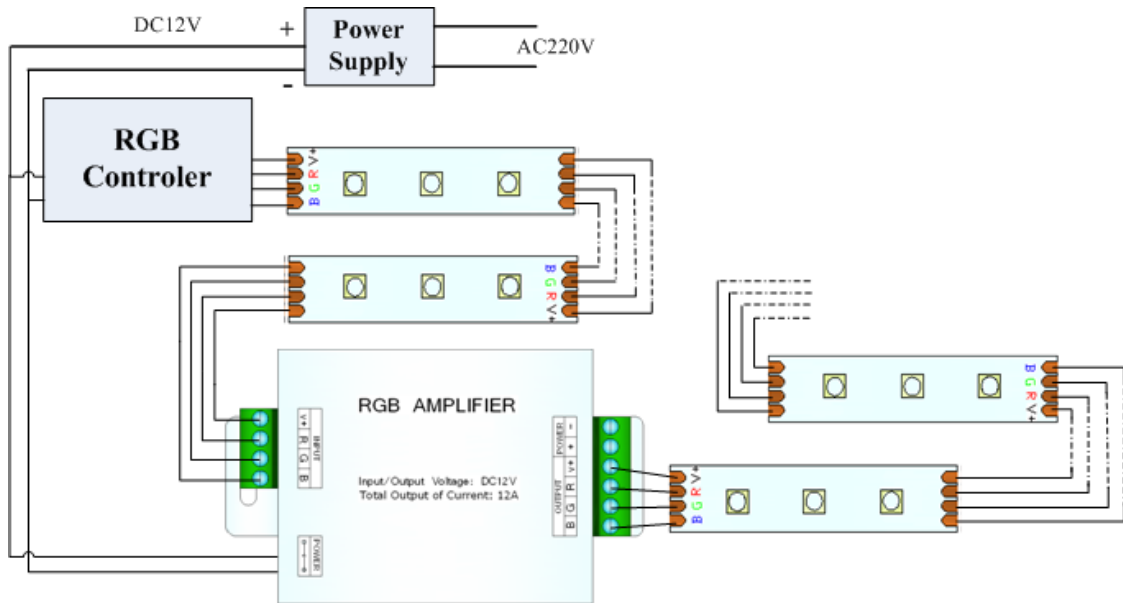
Directions for use

The supply voltage for this product is DC 12V-24V, never connect to a mains voltage.

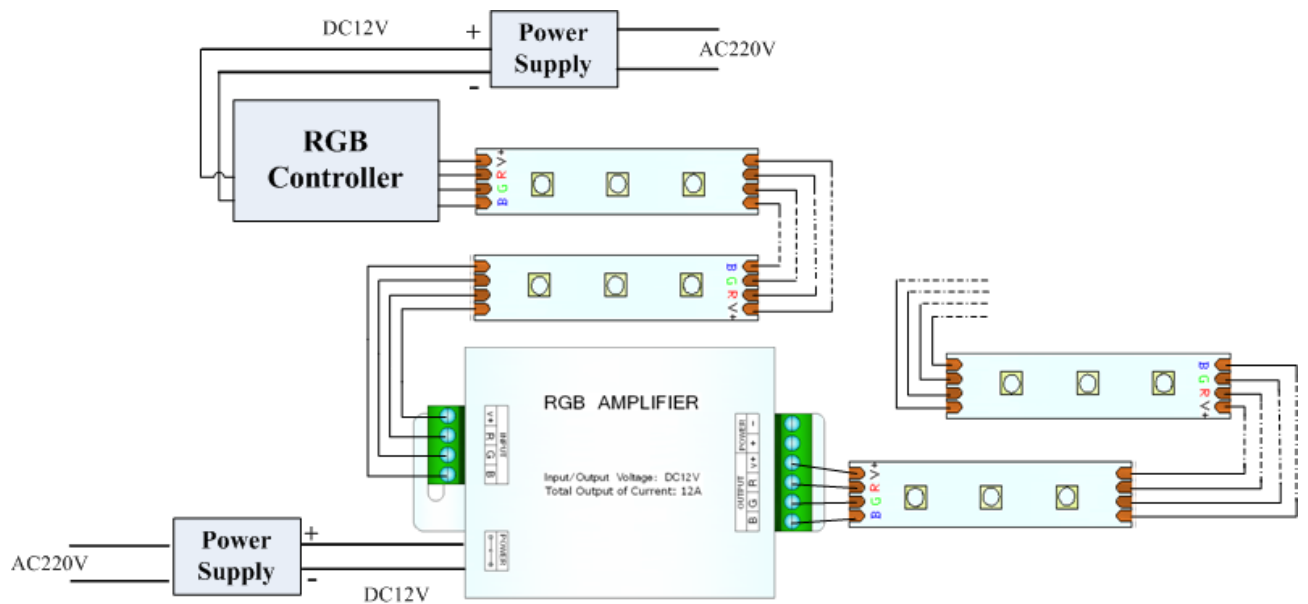
Typical Applications

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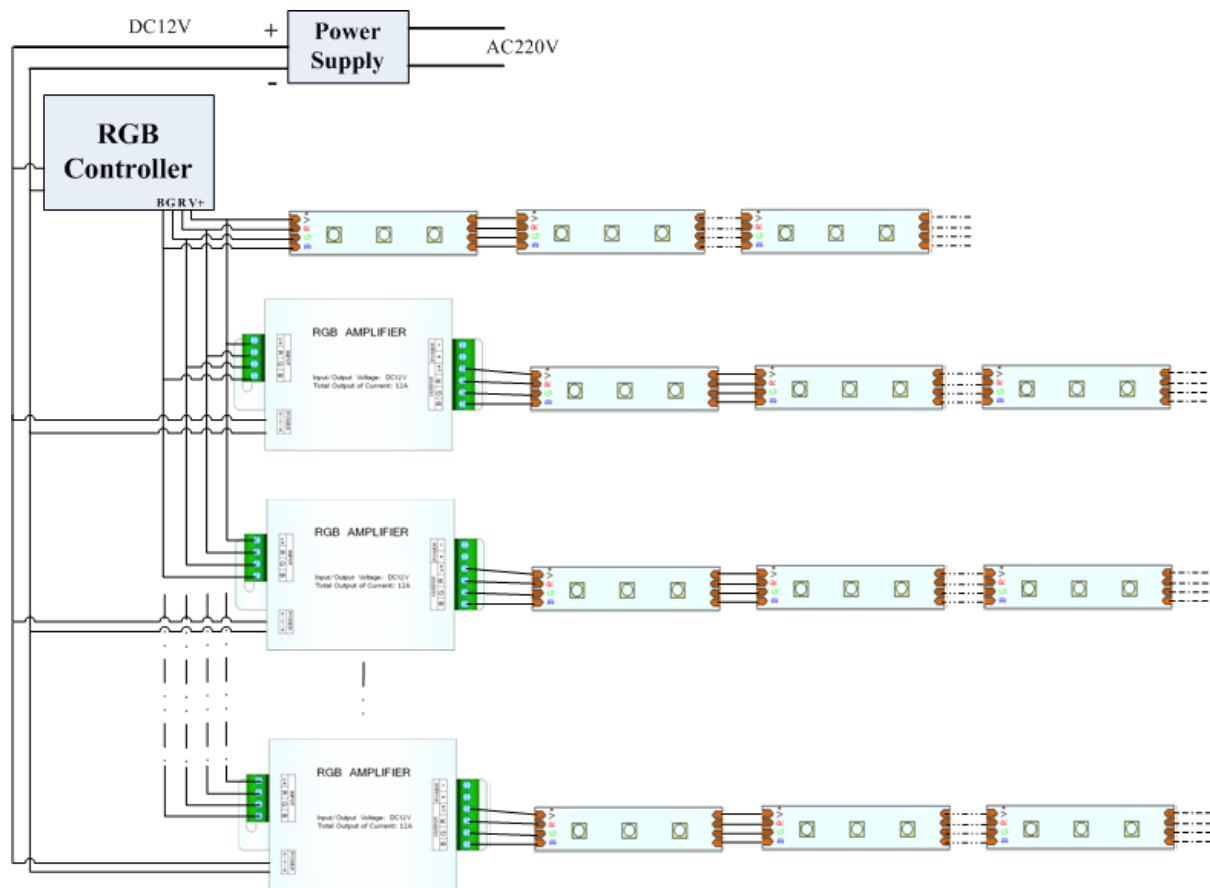
Application Circuit 1- Serial connection, one switching power supply:



Application Circuit 2- Serial connection, 2 or more than 2 switching power supply:



Application Circuit 3 - Parallel connection, one switching power supply:



Notes:

- The load voltage, current and power must be consistent with the product.
- Please make the connection as per the diagram above – ensure you connect the load wire before connecting the power. Avoid short circuits.

Common Problems

Problems	Possible cause	Solution
1. Lamp does not light after applying power.	Power cord is not properly connected or there is no output from the power supply.	Connect the power cord properly or re-apply the power.
	Lamp power cord is not connected or short circuit.	Connect lighting power cord.
2. After connecting some of the load the controller does not work.	The connected load is too large, so that it has damaged some of the components of the controller.	Replace components or replace the controller.