

LED Strip Light Amplifier

DYN-AMP2, RGB-AMP2, RGBW-AMP2



**Full
Protection**



**High
Power**



**Push
Terminal**



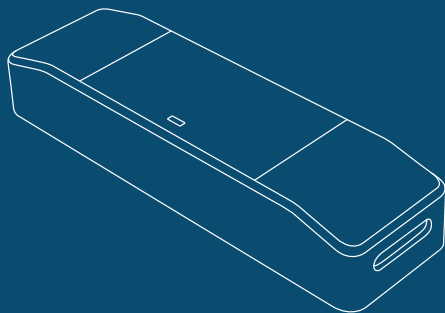
5V-24V DC



**Cable
Holder**



**Status
Indicator**



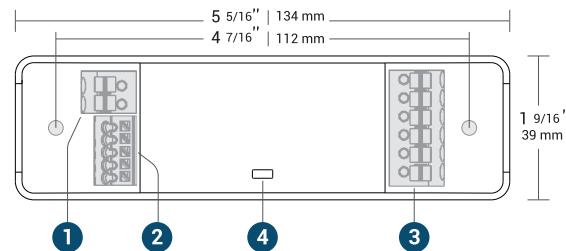
FLEXFIRELEDs

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Introduction

This amplifier is designed to amplify constant voltage LED control signals and drive constant voltage LED products in the range of 5 - 24V DC. The amplifiers can be used with our Dynamic Tunable, RGB Color Changing, and RGB+W Color Changing LED strip lights, respectively. These amplifiers have output connectors with cable holders and have a full protection system against overloads, short-circuits, overheating and incorrect wiring. A multi-color indicator light on the receiver shows the current working status of the amplifiers.

Dimensions



① Power Input

This side of the amplifier is connected to the power supply in the range of 5-24V DC. Insert the power cable from the power supply, making sure that the polarity matches. Wires as thick as 12 AWG fit inside the connectors. The voltage coming from the power supply must match the voltage coming into the signal input. In other words, make sure the voltage stays consistent for all LED strip lights in the same run of lights. Also, make sure that the power supply can handle the wattage load requirement for the lights you are powering.

② Signal Input

Attach the signal wires from the first run of LED strip lights or controller to these terminals. Please make sure that the voltages and polarities match.

③ LED Output

Attach the next run of LED strip lights to this terminal. Please make sure their rated voltage matches the output voltage of the power supply, and that each channel's maximum current is below the controller's rated current, which is 8 Amps per channel in this case. Wires as thick as 12 AWG fit inside the connectors.

④ Status Indicator

The multi-color status indicator displays all working states of the controller:

Solid Green: Normal functioning

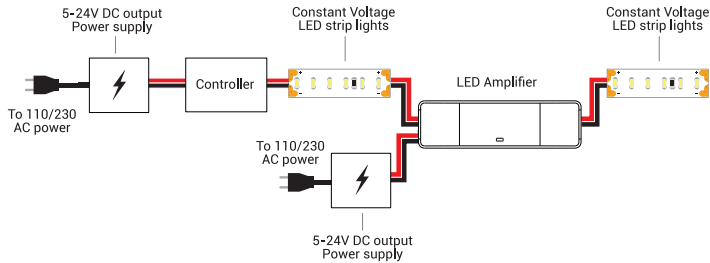
Flashing Red: Overload and short-circuit protection

Flashing Yellow: Protection against overheating

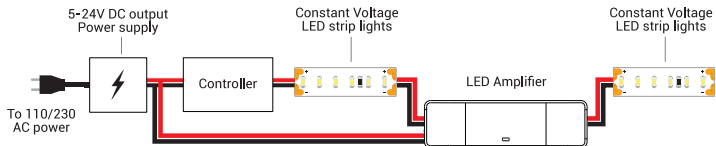
The amplifier has full protection against overloads, short-circuits, overheating and incorrect wiring. The amplifier will try to recover every 10 seconds after shutting off, and will automatically recover when conditions improve back to normal. To avoid these situations, please make sure the output wires are well insulated and the load of the LED strip lights is within the rated range. Also, install the amplifier in a place with proper ventilation that allows for heat dissipation.

☑ Wiring Diagram

Option 1



Option 2



☑ Specifications

| Model | DYN-AMP2 | RGB-AMP2 | RGBW-AMP2 |
|----------------------------------|---|----------|--------------------|
| Working Voltage | 5V-24V DC | | |
| Rated Output Current | 2*8A | 3*8A | 4*8A (Max. is 24A) |
| Standby Current | <15mA | | |
| Signal Voltage Range | Power Voltage +/- 3V | | |
| Time Shift | <5uS | | |
| Output | PWM constant voltage | | |
| Overload and Overheat Protection | Yes | | |
| Working Temperature | -4°F~+131°F (-20°C~+55°C) | | |
| Dimensions | 5 5/16" * 1 9/16" * 15/16" (134 * 39 * 23.5 mm) | | |

Contact Information



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