

Single Color LED Amplifier

FF-JUN-SC-AMP

Juno™ Series

- Ultra Slim Design
- Waterproof
- 3-Color Indicator Light
- 5-24V Voltage Range
- Auto Circuit Protection

User's Manual

fier to the end of the preceding LED strip run. The red input wire should be connected to the LED strip's positive channel and the blue wire connects to the LED strip's negative channel.

3. Connecting the Amplifier to your Lights: Output

The output side of the amplifier is connected in a similar fashion to the LED strip you are adding to the run. The red output wire connects to the DC positive (+) channel on the LED load, and the black wire connects to the DC negative (-) channel on the LED load.

4. Double check

Securely connect all the wires as instructed and double check that the polarities are matching before turning on the power. Once powered on, the amplifier should carry the same signal and dimming level from the first run to the second run.

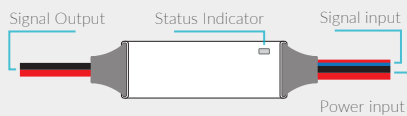
Other Features

Automatic Circuit Breakers

These amplifiers have full protection against output short circuits, overloads, and overheating. The amplifier will automatically recover when the fault is corrected. Ensure the LED loads are within the rated voltage range, not shorted, and protected against overheating.

Introduction

The Juno Series single color LED amplifiers are designed to drive constant voltage LED products in the voltage range of 5-24VDC. It regenerates PWM driving signals and can expand the LED driving range maintaining a synchronous lighting pattern.



Installation Instructions

1. DC Power Input

This LED amplifier will run on 5-24VDC. The red power input wire on the amplifier should be connected to the power supply's DC positive channel and the black wire to DC negative. Be sure the power supply voltage is same as the LED input voltage and the power supply is large enough for the LED's load wattage.

2. Connecting the Amplifier to your Lights: Input

When an LED signal needs to be amplified due to voltage drop, connect the input side of this ampli-

Voltage Range

This amplifier can work on 6-24VDC. Be sure the input signal, power supply and LED load are all using the same voltage. The amplifier cannot work with different voltage input and output. Also, the wrong voltage may damage the LEDs. e.g. Do not use 12V LEDs with a 24V power supply.

Environmental Protection

This waterproof version is designed with the IP68 standard and can be used underwater up to a depth of 100ft (30 meters). When installing under water, make sure the cable connections are waterproof.

Status Indicator Light

This is a multi color status indicator. It displays all working states of the amplifier indicating different events as follows:

Blue: Working normally.

Red flash: Overloaded or short circuited wiring issue.

Yellow flash: Overheated.

Specifications

Model	FF-JUN-SC-AMP
Working Voltage	5-24V
Rated Output Current	15A
Efficiency	>97%
Input Voltage	Swing Power Voltage $\pm 3V$
Rising Edge Time Shift	<3uS
Falling Edge Time Shift	<2uS
Auto Circuit Protection	Overload/Overheat/ Short Circuit/Overcurrent
Working Temperature	-30°C to +80°C
IP Grade	IP68



FLEXFIRELEDs

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1-844-FLEXFIRE

Warranty Information

Limited Warranty:

This product has a 5 year limited warranty from the date of shipment. This warranty only includes the main product outlined in this specification sheet and does not include the additional accessories that are used as a reference. Complete warranty details for fixtures and additional accessories are available at <https://www.flexfireleds.com/warranties/> within the Policies section. For warranty related questions please contact product support team at (support@flexfireleds.com).

Consumer's Acknowledgment

Flexfire LEDs, Inc. stands behind its products when they are used properly and according to our specifications. When you purchase our products, you are agreeing to the terms and conditions outlined in our warranty section. We try our best to make recommendations, but the burden of proper installation, design, and maintenance relies on the purchaser.

This limited warranty does not include product failures that are the result of:

Not using a voltage regulated power supply to connect the LED product or controls; Connecting LED products to the wrong output voltage; Improper connection of power supplies, LED products, or controls; Connecting LED products or controls directly to any AC power source if they are stated for DC only input; Connecting power supplies backwards to an AC power source; Products used in an inappropriate location or in environmental conditions (temperature, humidity, moisture, etc.) outside the normal specified range; Water damage to products not specifically sold as water-proof products; Electrical power surges and spikes; Damage from hail, flooding, tornado, fire, wind, earthquake, lightning, electrical storm, or any other natural disasters or "force majeure" incidences; Damage caused by a vehicle or other accident; Damage caused when transporting the item; Damage to any products that were modified by the user, used for purposes other than as intended or directed, or connected to LED systems or components not purchased from Flexfire LEDs; Products that have been subjected to misuse, mishandling, misapplication or accident. Products used in connection with any components, devices or systems other than those explicitly approved as compatible with Company's products and listed on Company's website. Excessive wear and tear and/or physical or accidental abuse, loss, or theft. Improper repairs or warranty services performed by someone other than Flexfire LEDs will void this warranty.