EuControls
COLORS AND LIGHTS UNDER YOUR CONTROL

LS-RG6012-5A20
RGB Double Density Indoor 12V LED Strip

Introduction

The LS-RG6012-5A20 RGB 12V LED Strip uses 5050 SMD LED modules with high temperature resistant flexible FPC technology. This cuttable strip has a 3M adhesive back with ultra-thin design, so it is easy to install in all kinds of spaces. It is ideal for hotels, retail locations, residences, and or all places in need of energy efficient and accent lighting.

Specifications

- Input Current   6A
- Output Power   72W
- Viewing Angle   120°
- Operating Temperature   -4-113°F
- Storage Temperature   -4-140°F
- Relative Humidity   40-70% noncondensing
- Lifetime   Mean time between failure (MTBF) is 50-100K hours
- Length   16 ft. 4 in. per roll
- Weatherproof Rating   IP20
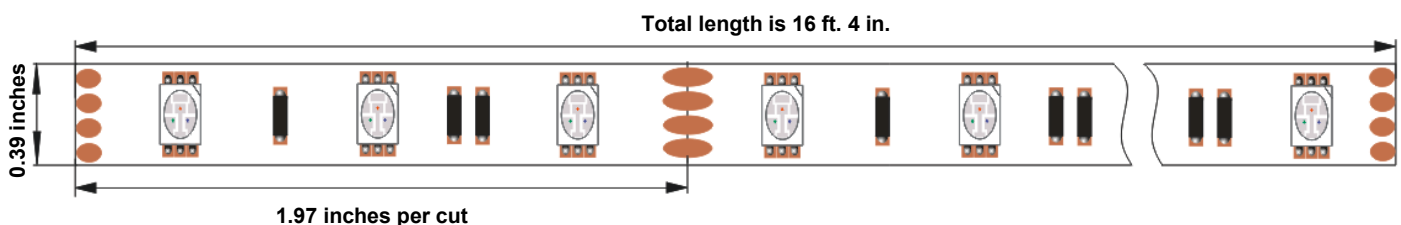- Safety Certifications   CE, RoHS and ISO9001 listed

Performance and Parameters

Color	Color Temperature	Luminous Flux	Quantity of LEDs/m	LED Type
Red	620-630			
Blue	465-470	18-20 lumens	60	5050 SMD
Green	520-525			

Note:
(1) Tolerance of luminous flux is ±10%.
(2) Photometric standards are based on CIE eye sensitivity curve diagram test.

Dimensions

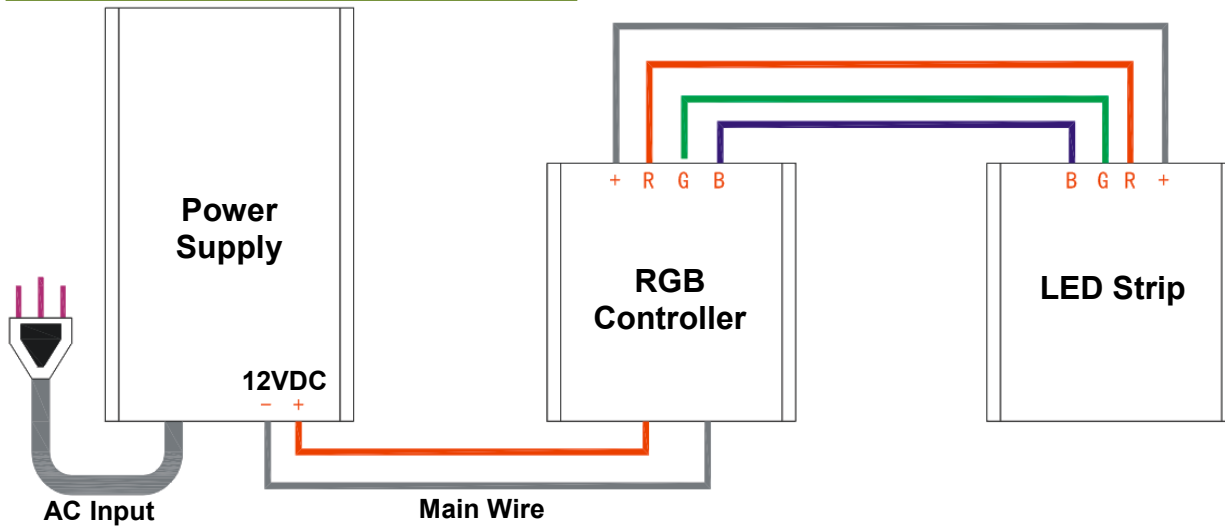**Total length is 16 ft. 4 in.**

0.39 inches

1.97 inches per cut

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Connection Diagram

Power Supply

12VDC
− +

AC Input

Main Wire

RGB Controller

+ R G B

LED Strip

B G R +

Note: For consistent brightness and even appearance, we recommend you to connect the LED strips to a power supply or repeater every 20-30 ft. to minimize voltage drop.

Installation

Problem	Cause	Solution
No LED modules are on	No power is being supplied.	Check the connections and power supply.
	Power supply is shorted and short-circuit protection is on.	Fix the shorted power supply or replace the power supply.
Some LED modules are on, but some are not.	Not enough power is being supplied.	Check the power supply or upgrade to a higher wattage power supply.
	Power connection is not good.	Check the power connection wiring from the power supply.
	Too much static electricity around the strip.	Check all electronics around the strip and make them grounded or replace the LED strip.
The brightness of the LED modules are different.	Loss of power due to voltage drop.	Use lower gauge (AWG) wiring or bring the power supply closer to the strip to alleviate voltage drop.
	Power supply is overloaded.	Check the power supply.
	Polarity of LED strip reversed.	Check the wiring connection.
LED modules appear to flash unevenly.	Poor Wiring connections.	Rewrite the connection to the LED Stip.

WARNING: DO NOT FOLD OR BEND THE LED STRIP. USE APPROPRIATE CONNECTIORS AND WIRIN INSTEAD!!!