

# Rp307 Constant Voltage Power Repeater

## Characteristic

This amplifier (data repeater) can “replay” the signal from a identical voltage controller to another set of I RGB LED modules that are the same voltage (or e.i. Flexstrip).

Max input is 5 amps ( 3 amps per channel) Max power load consumption is 100 Watts.

2) Amplifier need to be used together with low voltage controller or DMX

## Specification:

Working Temperature: -10 to 40 degrees Celsius

MAX In/output Voltage: 12/24VDC

Dimension: 4.6" x 2.5" x 1" (12cmx6.5cmx2.5cm)

Connecting Mode: Common anode

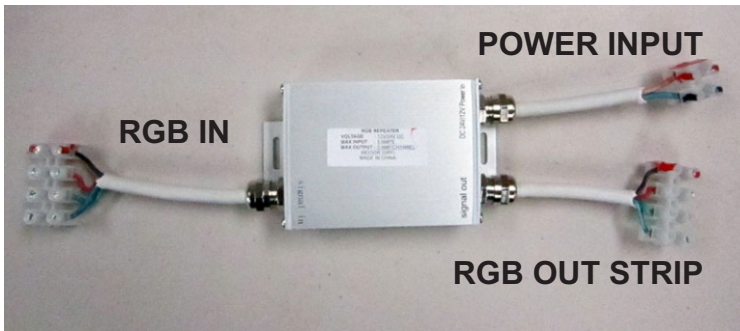
Max Current: 3A for each color.

Total Working current: **5 amps**.

For Indoor use.

CAREFULLY NOTE: there is no short circuit or overload protection and it is therefore imperative that the power supply have this type of protection. If attaching to a battery, place 7 amp fuse to positive input (V+).

**VOLTAGE MUST BE IDENTICAL FOR INPUT AND OUTPUT!**

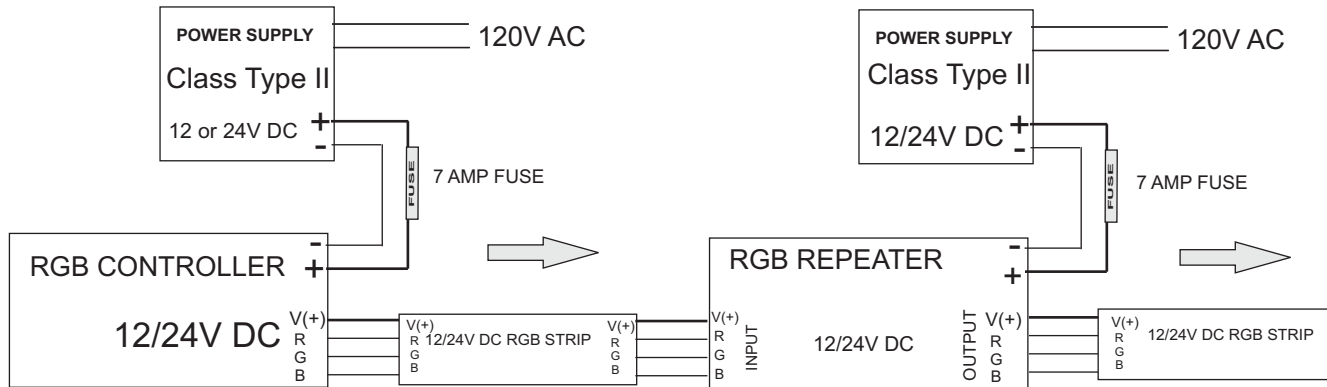


WIRE 7-8 MM  
EXPOSED WIRE SHOULD NOT BE MORE THAN 10MM (3/8" LONG) & SOLDER TIP TO PREVENT WIRE FROM FRAYING. DO NOT ALLOW WIRES TO CROSS AND TIGHT FIRMLY IN SCREW TERMINALS USE 18 GAUGE WIRE OR THICKER, AS REQUIRED. MAX 10 FEET (3 METERS) FROM CONTROLLER TO RGB LIGHTS.

**NOTE: WIRES FROM RGB CONTROLLER  
CONNECT DIRECTLY TO DATA REPEATER.  
MAX WIRE LENGTH OF WIRE IS 6M (20 FT) AT 18 GAUGE**

MATCH CORRESPONDING WIRE COLOR TO RGB STRIP  
BLACK TO BLACK, GREEN TO GREEN, AND SO ON...

NOTE! IF POWERING TO CONTROLLER, MATCH CORRESPONDING WIRE COLOR TO INPUT SIDE  
THE RGB CONTROLLER BECOMES THE MASTER CONTROLLER  
GOING TO THE SIGNAL REPEATERS



**WARNING: ONLY QUALIFIED PERSONNEL SHOULD PERFORM INSTALLATION.  
TO AVOID ELECTRICAL SHOCK OR COMPONENT DAMAGE, DISCONNECT POWER BEFORE ATTEMPTING INSTALLATION OF THE POWER SUPPLIES.**

Failure to install the power supplies and/or LED modules in accordance with the National Electric Code (NEC), all applicable Federal, State and local electric codes as well as the specific Underwriters Laboratories (UL/CSA) safety standards for the installation, location and application may cause serious personal injury, death, property damage and/or product malfunction. These instructions are guidelines for installation modules and power supplies. Installation requirements may vary depending on the application. Licensed electricians should provide all installation services for connection of both primary and secondary (input/output) of the power supplies.

**When using power supplies; the following basic safety features should be verified in addition to any other application specific concerns and local safety codes:**

**Short circuit protection**

**Overload protection (FUSE 5 AMP)**

**Overheat protection**

**Correct output voltage, including consideration for ripple and spikes.**