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Breadboard Power Supply Module 3.3V/5V

The Breadboard Power Supply includes AMS1117 – 5V voltage regulator and AMS1117–3.3V voltage regulator, providing fixed supply voltages. It features three voltage input options, a screw terminal connector, DC adapter connector and a USB connector. There is a green LED to indicate the presence of power, and an ON / OFF latching switch to control the power to the board. Jumper pins are utilized for selecting the voltage levels on each side of the breadboard power rails. There are two sets of jumper selectors for each side of the breadboard power rails; hence, you can have any combination of voltages on either rail. There are also header pins for tapping off voltages, using a cable or jumper wires. It can operate on 6-12V DC power supply and has separate screw terminals for 3.3V and 5V outputs. The AMS1117 series of adjustable and fixed voltage regulators are designed to provide up to 1A output current and to operate down to 1V input-to-output differential. The dropout voltage of the device is guaranteed maximum 1.3V, decreasing at lower load currents. Hardware and PCB were designed with Cadsoft Eagle 7.1.0 version. This board features in a "plug and play" design. The board fits directly onto the most breadboards so that no wiring is needed for powering up the breadboard power rails.

Specifications:

- Locking ON / OFF Switch
- LED Power Indicator
- Input Voltage: 6.5 V to 12 V (DC)
- Output Voltage: 3.3 V / 5 V
- Maximum Output Current: 700 mA
- Power Rails 0 V, 3.3 V, 5 V on Breadboard
- Two Groups of Header Pins
- Size: 5.3 cm × 3.5 cm
- USB device connector onboard to power external device

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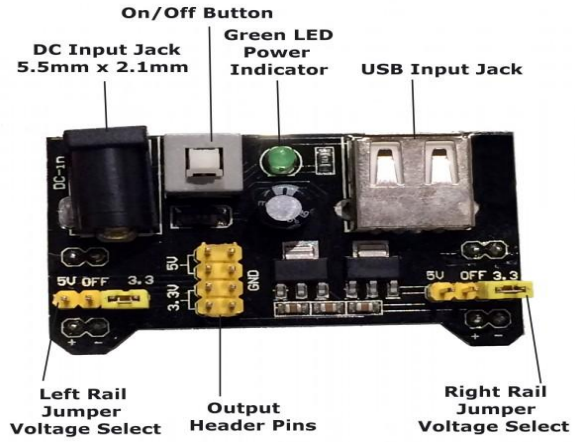
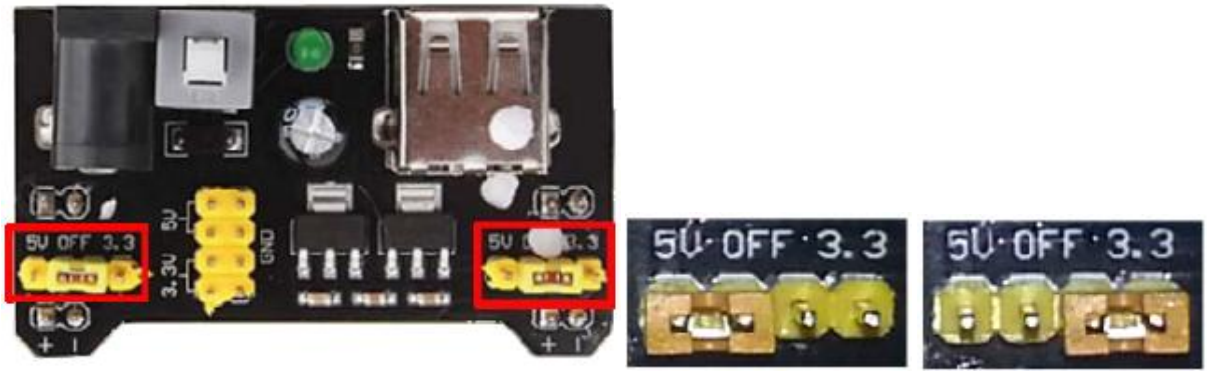
Pins out :



Dimensions :

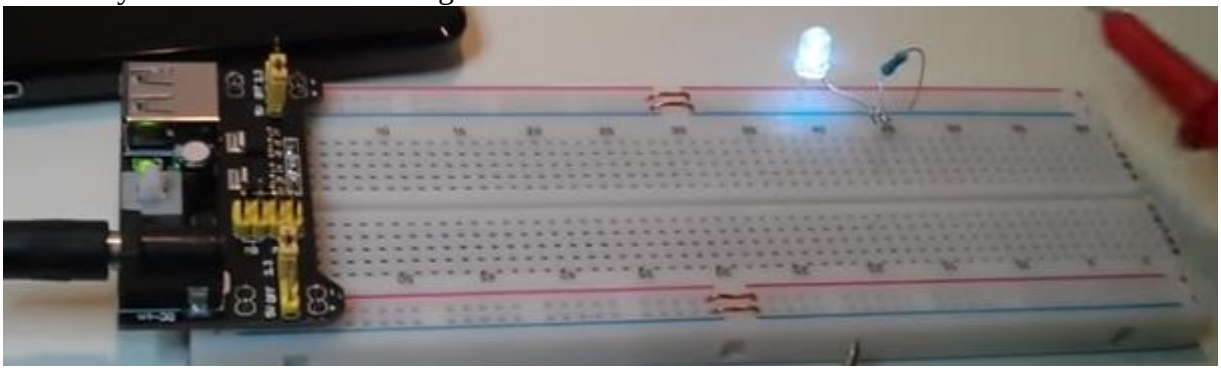
Setting up output Voltage:



The left and right voltage output can be configured independently. To select the output voltage, move jumper to the corresponding pins. Note: power indicator LED and the breadboard power rails will not power on if both jumpers are in the "OFF" position.

How to use Breadboard Power Supply:

This is a plug-in power supply and the headers below the board are pluggable directly to the breadboard. Once plugged in, the voltage rails to both sides on the breadboard will then provide power. You then use the yellow jumpers to select the voltage levels required. This is a dual output 3.3 V and 5 V regulated board so you can have either voltage on either rail on the breadboard.



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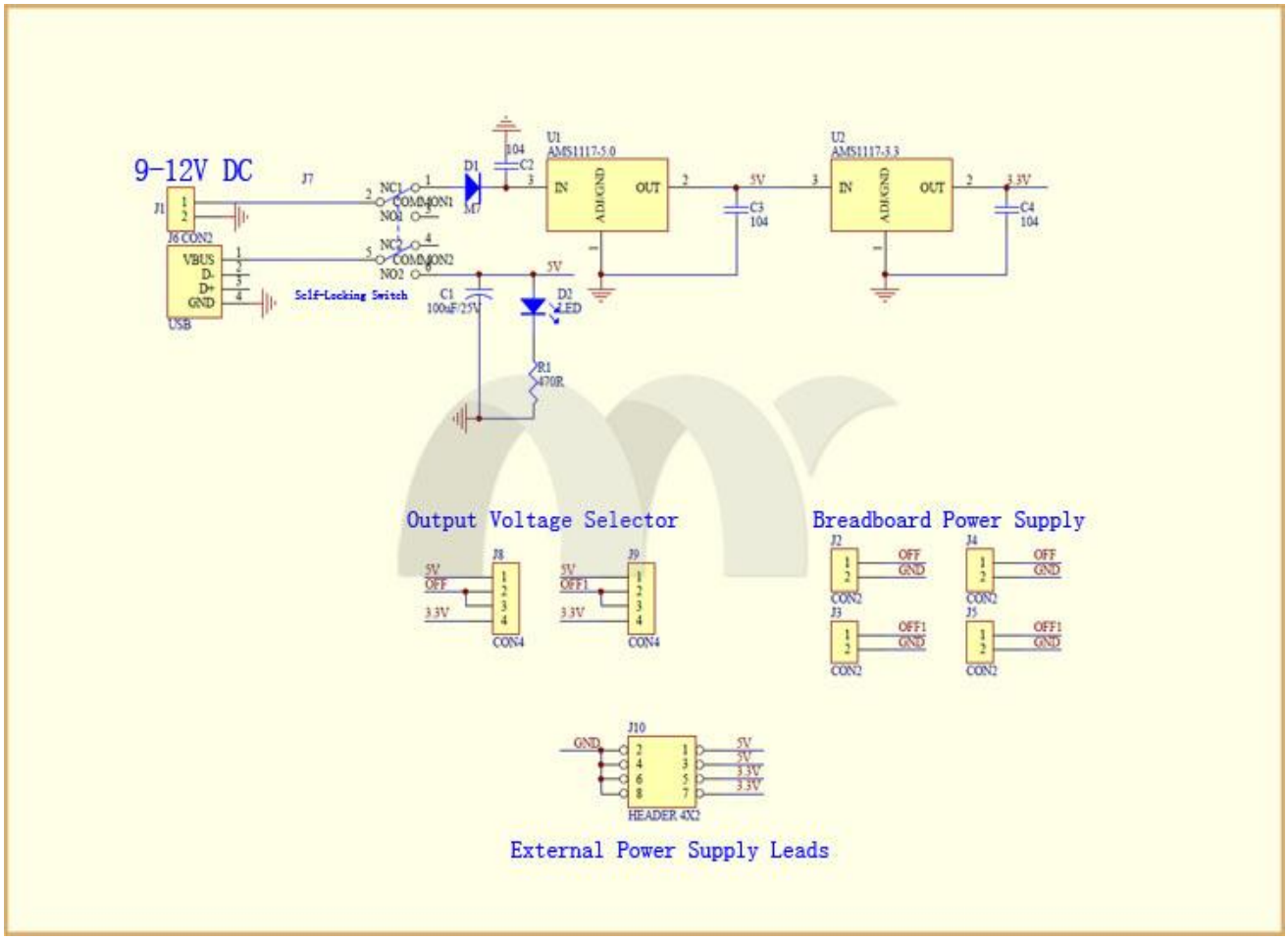
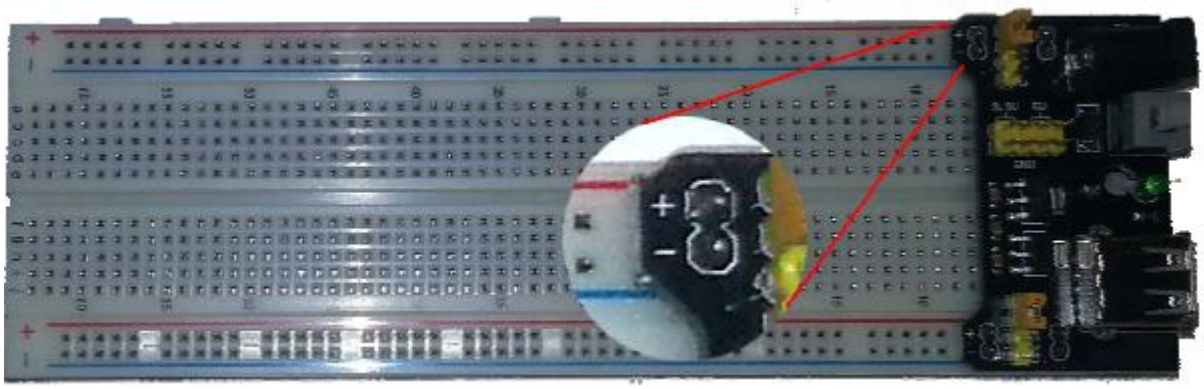
Schematic Diagram:



Notes:



Make sure that you align the module correctly on the breadboard. The negative pin (-) on module lines up with the blue line (-) on the breadboard and that the positive pin (+) lines up with the red line (+). Failure to do so could result in you accidently reversing the power to your project.