Regulated Power Box

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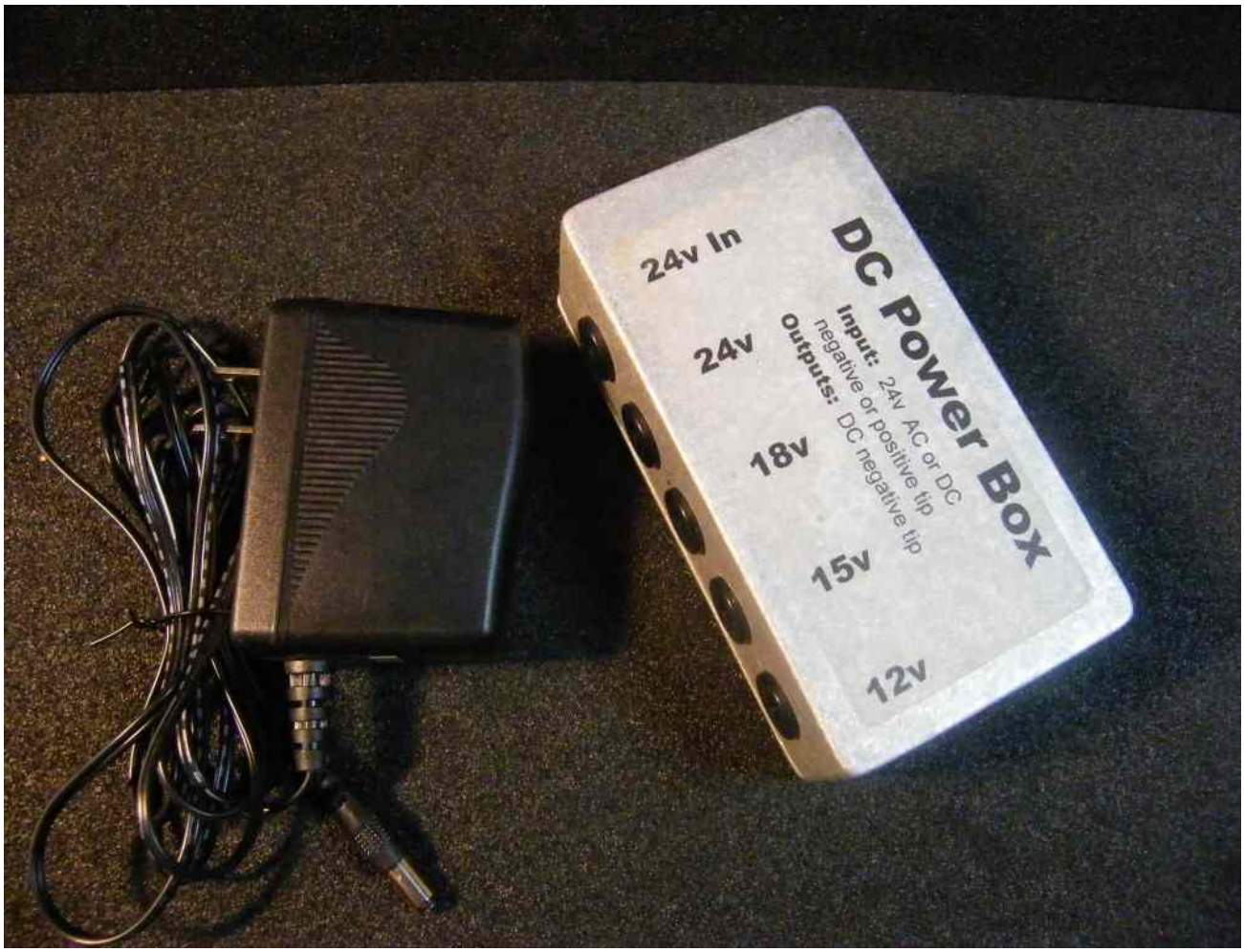

The “Power Box” also known as the “Poor Man's Bench Power Supply”. Our “box” takes a 24v input and has four outputs: 24v, 18v, 15v, and 12v. This is an extremely useful tool to have on your work bench or in your studio. You can reduce the number of different wall warts you need. We only have a 24v “one spot” type wall wart and a few 9v regulated wall warts in our studio now.

We used four of the Regulated Power Supply PCBs and put them in one box. Each PCB has a different output voltage based on the voltage output of the regulator on the PCB. Since the power is rectified (DC power) on the PCB, you can use a AC or DC Wall Wart **and** you can use either positive tip or negative tip on the input. All the outputs are negative tip as most stompboxes use. The 24v ouput is rectified and not run through a regulator. The other lower voltages have regulators to bring them

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down to the voltage output. Simply daisy chain the input into each PCBs and wire the PCB outputs to the DC Jack.

Notes:

- Since the regulators require a few volts more than the output, we didn't put a regulator on the 24v output so as to keep the voltage output up close to 24v. Its PCB is stuck to the side with foam tape.
- You can use one of those DC power daisy chain cables to run from the box to your pedal(s). Just plug one of the male jacks into the Power Box output and one of the other male jacks into your pedal (you won't use the femail plug at all).
- We **could** have left the rectifiers off of 3 out of the 4 PCBs. You really only need to rectify the power once and then run it to the regulators. The bridge rectifiers and the extra caps are inexpensive so I fully populated all the PCBs, so that they could be easily pulled from this box and used for other projects if the need arises.

Here is a photo of the inside of the box: