

Re-vamped Power Supply

Although this isn't a new project, it is a rebuild of an existing item.

I was looking for a good power supply for my bench. I've had a few supplies, but I was in need of a supply capable of 15–20 amps at anywhere from 5–16 volts.. I recently acquired a Pyramid Model PS-25G.

This is a great supply, it did the voltages and currents I wanted, but I did not really like the edge style metering in it.



I swapped the edge metering for digital meters for both current and voltages. These were acquired from EBay relatively cheaply, so I now have accurate metering for both.

It amazes me how “inexpensive” these things are!! At almost 3/4” high, even my old eyes can read them from a distance!!



The next step was to replace the standard voltage control pot with a 10 turn one. I found the standard pot was a bit too touchy for any sort of precision.

Now it can be set quite accurately. And the voltage only drops 0.01 volts at 5 amp load. I'm sure it will drop more at higher currents, but so far, so good. The leads likely add more volt drop than the regulator.

Next step is a variable current limit, but that may have to wait for a while!! Too many other projects this time of year.

Good luck and have fun with your projects.

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