

Regulated Power Supply Project

Version 2005 January 08

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This is a simple regulated power supply. The diagrams and bill of materials specify a 9 volt model, but any voltage model can be built using different voltage transformer, regulator and ratings on the capacitor voltages. This is designed for using the flat pack transformer, you can also build just the left part of the board and wire any type of transformer to it, the pads are included for off-board transformer connections. **Warning: You must use caution building this unit, household AC electricity can kill you! If you are not experienced at working with high voltage, do not attempt to build this project.**

Bill of Materials

Capacitors (minimum 16 volt rating)

1 – 100uF aluminum electrolytic

1 – 220uF aluminum electrolytic

24 gauge stranded wire

20 gauge wire (mains hookup)

AC power cord

Enclosure

Other

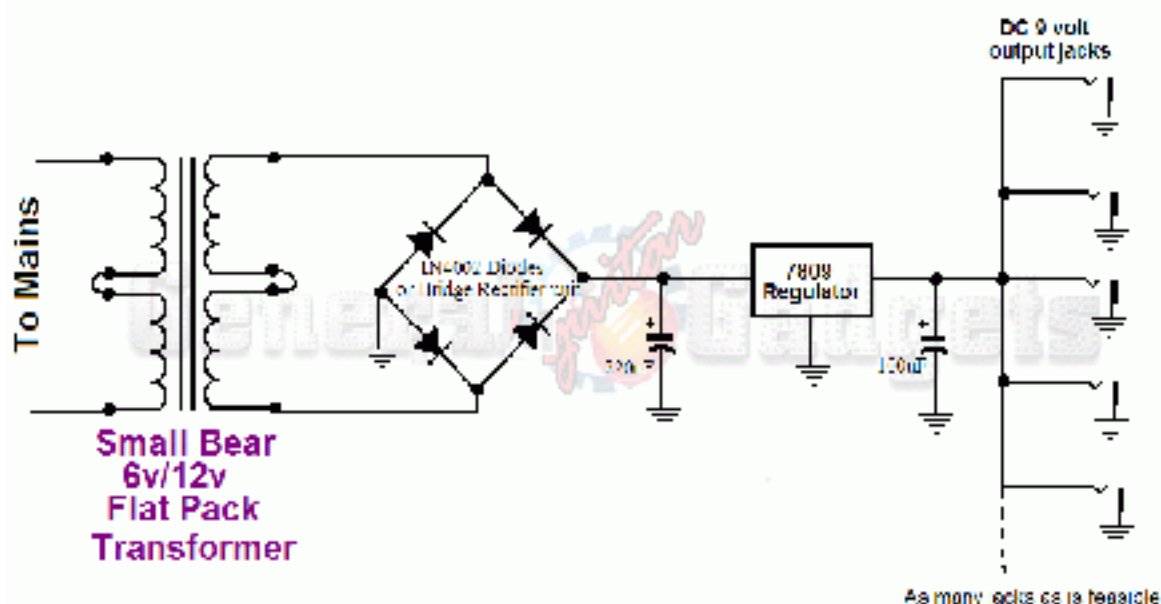
4 – 1N4001 or Bridge Rectifier unit

1 – Flat Pack Transformer (12v)

1 – 7809 +9v regulator

4 or more – Isolated Power Jacks

Circuit board

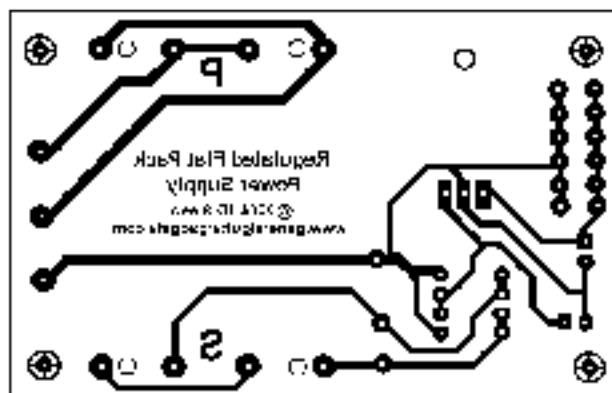


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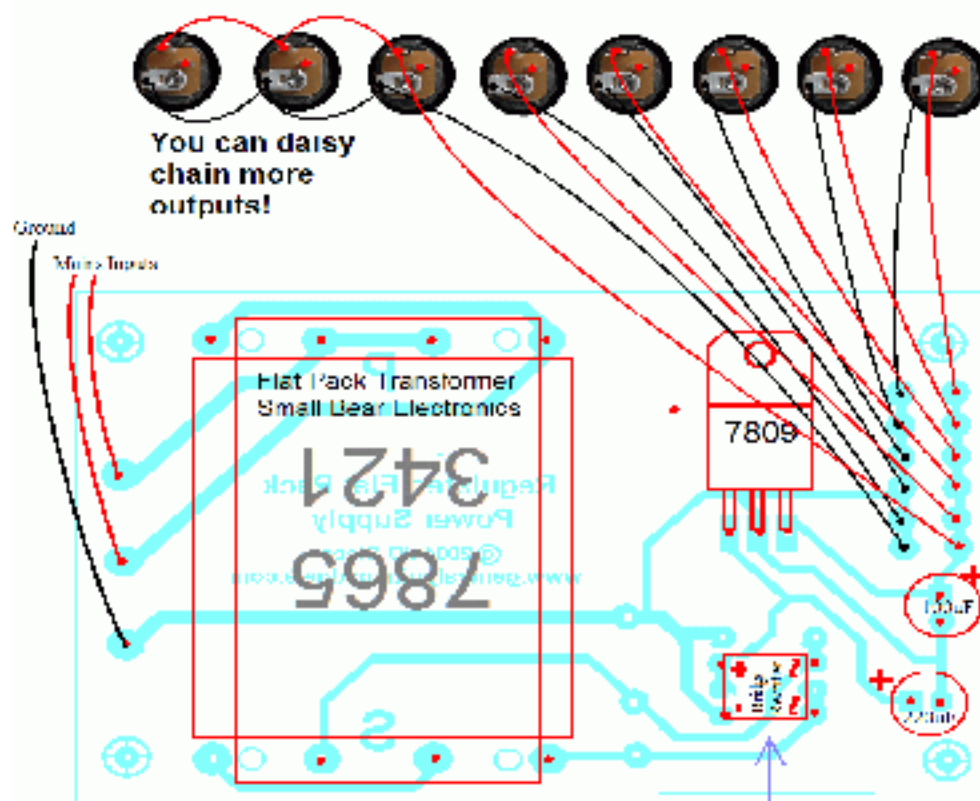
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Size 8cm x 5.1cm



This Insert diagram shows the alternate placement of 4 diodes (e.g. 1N4002) used as a rectifier instead of the one-piece unit.