

Final Degree Project

Boost Converter DC-DC

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B. IMPROVES AND OBSERVATIONS

B.1 Improves

Some improves of the design that could be introduced will be just announced.

The first one is introduced a led that could inform the user that the converter is connected and working or not, simple and easy. If we want, it could be very interesting to introduce a system could inform about the status of the charge battery, to know if the battery is charging or just working,

If an ammeter DC is introduced in series, connecting the positive of the ammeter to the converter and the negative with the notebook, we will obtain information in real time about the current in the load.

If we want to go far away we can think in a solar device, to make the device completely mobile, if the weather conditions are acceptable.

B.2 Observations

The design of the board has to be considerate that the converter is working in a high frequency. Giving an extra problem with the solder and the long wires and ways because it could appear parasite inductances that we do not want, because we can not control and affects the results of the converter.

For this reason it is very important to make the connection between components, the shortest ways that could be possible, easy to avoid this undesired inductances appear for the solder.