Weekly Progress Update Number 6

This past week has been experimenting with all of the components and programming them. I received the DC to DC solid state relay a couple days ago; it came unassembled and partially damaged, so I spent a couple hours putting it together and repairing it. Using a laboratory power supply, I was able to test the operation of the solid state relay. If I applied a voltage to the output pins, the voltage would not be seen until there was a voltage applied to the input pins, thus discovering the relay is a normally open switch (just as desired).

My upcoming tasks are working on the voltage dividers so that I may interface the battery voltage to the charge controller. Also, I will have to study our battery parameters in order to coordinate the charge controller (information is attached). Using that information, I will connect the battery to the charge controller, and once it is fully charged, I will program the charge controller to disconnect the panel. After completing this, the majority of my portion of the project will be complete, where I can work on detailing other parts of the project and purchasing a DC to AC inverter for Milestone II to demonstrate the project.