Analyzed charge controller system and purchased best option for solid state relay:

http://www.amazon.com/Amico-Solid-State-3-32VDC-5-60VDC/dp/B005X465KW

Upon further research, a Hall effect based current sensor is a MUCH greater option to measure the current provided to the battery system. This is still a very inexpensive option and will provide great accuracy to the microcontroller:


Along with these two parts, I have also purchased a push button to perform a backlight control for the LCD screen.

These parts should arrive within 1-2 weeks.

Once the parts arrive, I will continue to complete the charge controller. Primarily, the connections from the source (solar panel) to the load (battery bank) will be done as well.