Charge Input Handling.

Remove this fuse if AUX charging is not desired.

Buck Drive

Buck-Boost converter system

Boost Drive

Power Enable Handling

MAX 6v on Enable signal for AP62250Z6

AUX 5v

Analog 3.3v

Digital 3.3v

Power Enable Handling

USB serial

Battery Current and Output Control

Heater Control

Hardware Over Volt Protection

Using digital 3.3v instead of analog for this temperature sensor because it's not super critical how accurate it is, and this power line runs accross the board and could pickup noise.

dsPIC and analog filtering.

Cell Ballancing Control

Cell Voltage Analog Input Control