# WR-218e Battery

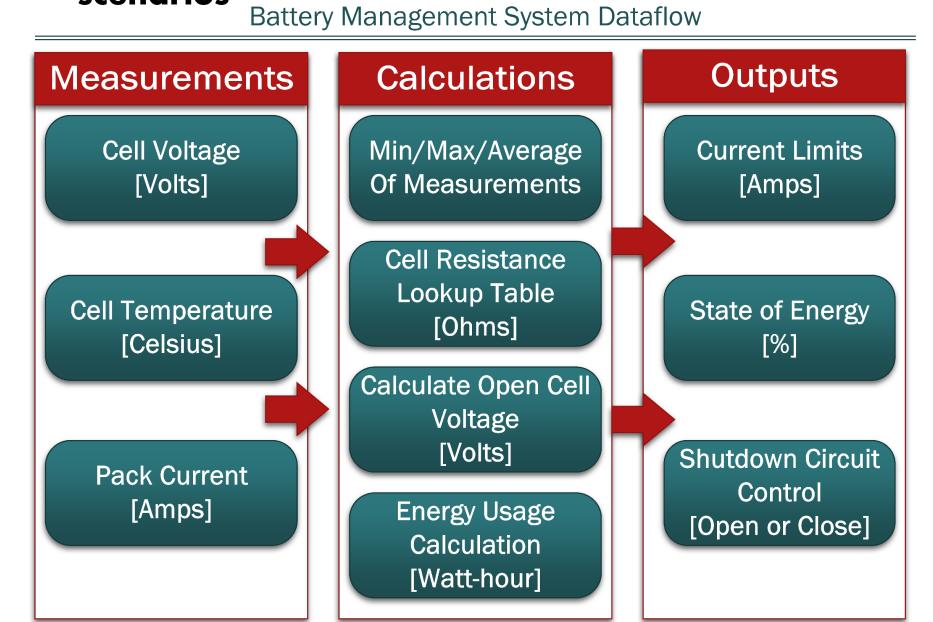
### **Battery Pack Specs**

- Nominal Voltage: 216 VDC
- Capacity: 31 Amp-hours
- **Energy: 6.70 Kilowatt-hour**
- Built from 120 cell modules (60s2p)
- Each module is 1s5p and has integrated temperature sensors and cell level fuses
- Student designed Battery Management System Priority Power Multiplexer for seamless switchover from LV Batt to the DCDC
- Onboard diagnostics MCU that measure all shutdown circuit signals

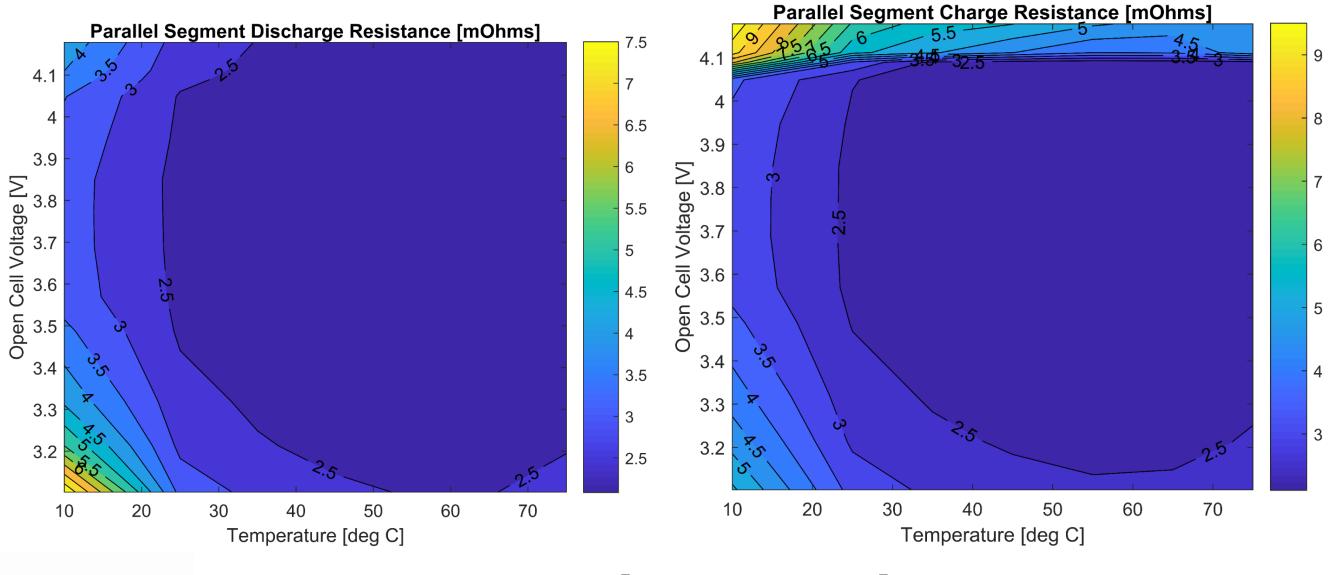
# Femap Analysis of Accumulator, **40G Longitudinal Forward**

### **Battery Management System**

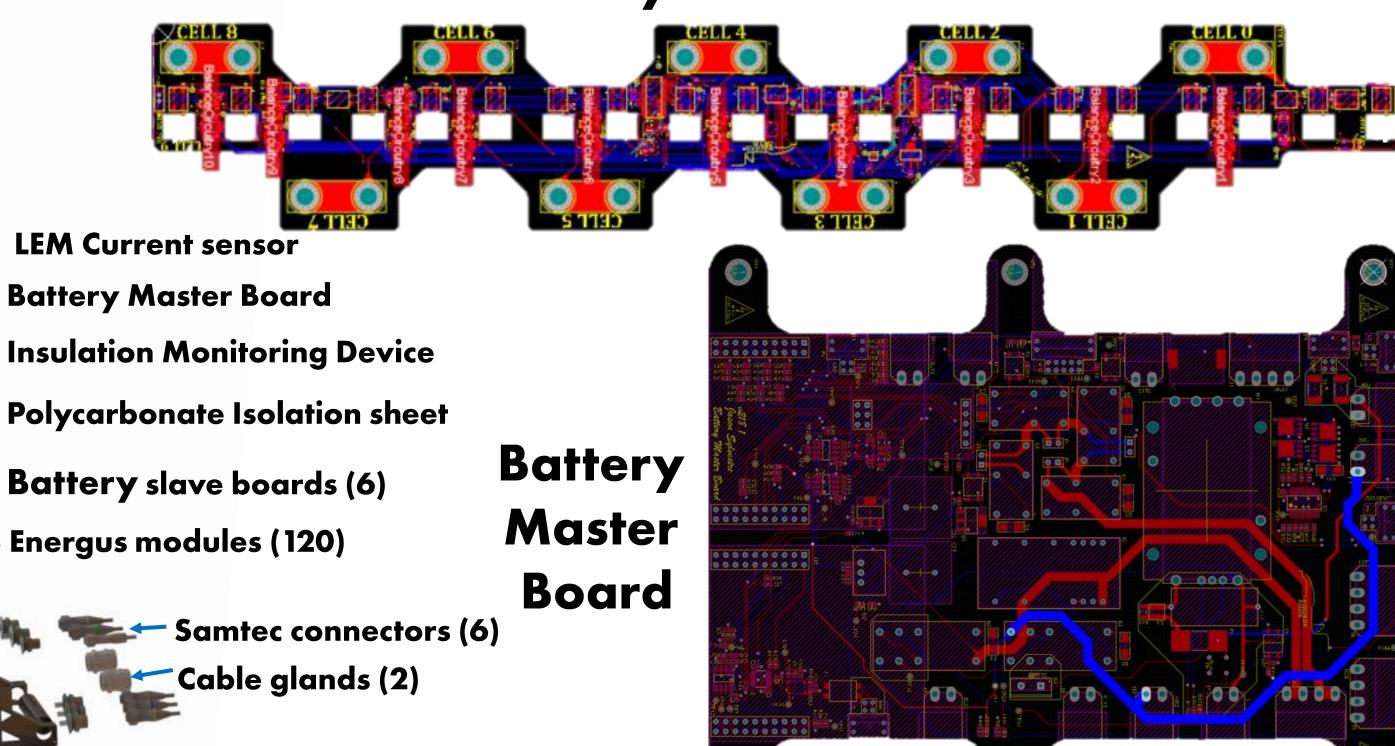
- Cortex-M4 MCU with the LTC6811 BMS IC
- Monitors cell voltages, cell temperatures and pack current
- Makes sure the cells are within their safe operating limits
- Reports Troubleshooting codes to quickly troubleshoot fault scenarios



### **Cell Resistances**



## **Battery Slave Board**







Busbar

Covers

Contactors (7)

Silver plated

1100 Al

busbars























