EV Battery Management System

Team 1

JOSH SIEBER

SCOTT HASKINS

SUE LOR

BEN AHLES

MITCH AUPING
Battery Management System
Product Description

- The system is useful for electric vehicle battery management.
- The system shall monitor the charging, balancing and discharge of the battery (LiFePo4 cells) to a 48 volt DC brushless motor.
- The system has automatic shut-off protection in place during dangerous conditions.
Battery Management System
Key Requirements

- **KEY FEATURES & OPERATING MODES**
  - Cell Overcharge Protection
  - Cell Over Discharge Protection
  - Over Voltage Protection
  - Thermal/Overheating Protection
  - Display will show time left at current use of power, battery state of charge, and all warnings related to system protection.
Battery Management System
Block Diagram