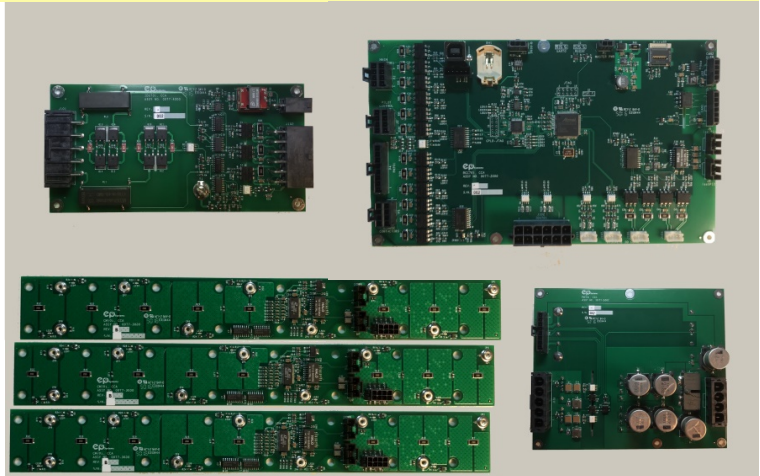


Battery Management System For Lithium-Ion Batteries

Features

- Scalable, distributed architecture for HV systems up to 1000V
- 12-channel cell monitor boards can be scaled in series and parallel
- Cell voltage monitoring and SoC based balancing
- Remote temperature sensing
- Real-time SoC and SoH estimation, warning and fault reporting
- Integrated charge and discharge control, both with pre-charge support via 6 isolated discretes
- Isolated discrete inputs for remote power ON/OFF control
- 3 Isolated CANbus interfaces
- HV to LV DC-DC converter provides 12V and or 28V isolated output
- Isolation detection unit feature
- CANbus support for LEM CAB300 non-contact current shunts
- Integrated uSD card continuously logs all data



BMS701

Battery Management System

EPS introduces the *BMS701* advanced lithium-ion battery management system. The *BMS701* is an all-in-one battery management controller that combines cell management, contactor and pre-charge control, isolated current measurement, fault isolation detection, system communications, and DC power generation in one compact high end system.

The design can be assembled into parallel and series strings up to 1kV to construct large battery systems. The *CM701* remote cell monitors communicate to the *BCC701* central controller that manages the complete system, balances the lithium cells, controls charge and discharge operations, measures current, and provided state-of-charge information over the integrated galvanically isolated CANbus interface. The *BCC701* also monitors and controls the *PM701* which provides isolated 12V and 28V DC power directly from the battery pack, and the *IDU701* isolation detection unit that checks for potential hazardous leakage current.

The *BCC701* monitors and reports status on every part of the system over CANbus. It also reports warnings and potential problems with the cells as they are detected.

The *BMS701* system is highly customizable to your application. Contact EPS to discuss incorporation of this advanced technology into your application.