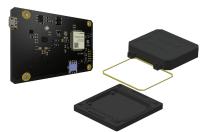
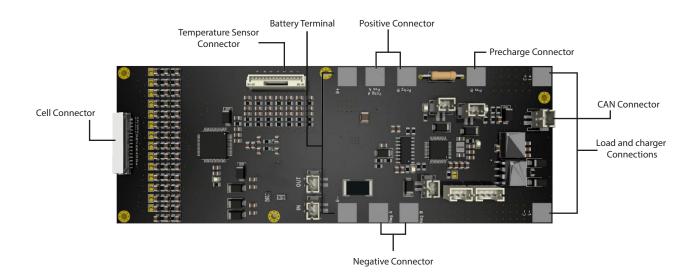
BATTERY MANAGMENT SYSTEM



BMS is an advanced battery managementsystem with robust protection mechanisms, predictive algorithms, and detailed mathematical models to characterize cells and estimate thecurrent state of the battery pack. It is also designed to be highly modular, with the ability to easily configure the hardware and software for multiple voltage and current levels.



Hardware Configuration

- Voltage Range 12 V to 3 kV
- Max. no. of modules in daisy chain 63
- Max. no. of cells per module 14 S
- Max. continuous current 50 A
- No. of Temperature Sensors 5 per module
- Balancing Technology Passive
- Balancing current 30 0 mA
- CAN Communication Yes
- UART debugging Yes
- Protection Mechanism Relay
- IoT Functionality (with GPS) Optional
- Main board PCB Dimensions 16 0 x 58 x 10 mm
- Additional Module PCB Dimensions 80 x 58 x 10 mm
- SoC Estimation Coulomb Counting

Fault Protections

- Short Circuit
- Over Current
- Over Temperature
- Under Temperature
- Over Voltage
- Under Voltage
- Low SoH
- Insulation monitoring
- Low SoC



