

Battery

Management System (BMS)

Salient Features:

● MASTER BMS

The CMC (Cell Monitoring Circuit) is connected to cells, placed close to the battery module for achieving short sensor wire length and increasing accuracy.

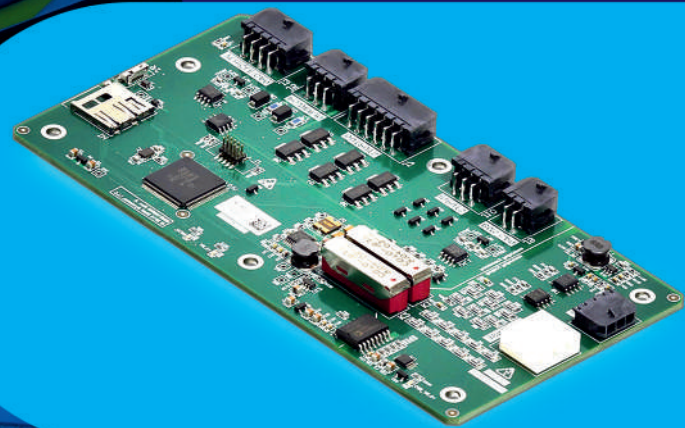
● SLAVE BMS

The local BMS is a control unit built on single processor architecture in lockstep with achieving ASIL C integrity level.

● LONGER BATTERY LIFE

The BMS is customized for the longest life based on individual mission requirements.





- ▶ Data Collection
- ▶ State Monitoring
- ▶ Safety Protection
- ▶ Charging Control
- ▶ Energy Management
- ▶ Equalization Management
- ▶ Thermal Management
- ▶ Information Management

Technical Specification:

PARAMETER	VALUE	
Cell Voltage Measurement Range (V)	0 to 5	
CAN Communication Standards	CAN2.0B	
Operating Temperature (°C)	-40° to +85°	
Master Slave Configuration	Yes	
Cell Balancing	Yes	
Operating Voltage Range	18- 32 V	
SoX Algorithms	SOC, SOP, SOH	
Measurements Accuracy	Cell Voltage	+/-5mV
	Module Temperature	< 2%
	Pack Voltage	< 1%
	Pack Current	< 2%
	SoC	< 5%
	SoH	< 5%
Fault Diagnostic	Internal Battery Fault External Battery Fault	
Safety Measurements	Isolation, HVIL, Thermal, Reverse Polarity, Over and Under Voltage, Temperature, and Current, Short Circuit	