Introduction of 48V BMS with passive balancing

•BMS supports 7-15 battery cells in series to adapt to different voltage system
•Accurate capacity calculation (SOC&SOH), Precision reach 5%
•Under-voltage and over-voltage protection and pre- warning function
•Over current pre-warning and protection function during discharging/charging and short-circuit protection
•Passive balancing during charging
•Over temperature /low temperature pre-warning and protection during charging and discharging
•Support charging prohibited under risk voltage(< 1.5V), ensure the safety of battery cell
•Communication interface : UART, RS485,CAN
•Customized PC GUI: reading the status of pack and each cell(current,voltage,tempature,etc.)
•Auto-sleep and wake-up function
•High discharging current and low temperature rise
•Self-Checking for fault
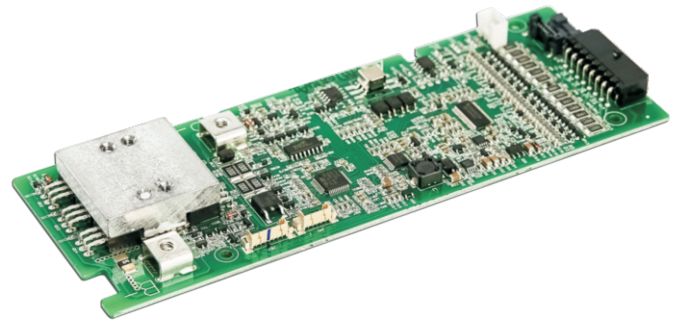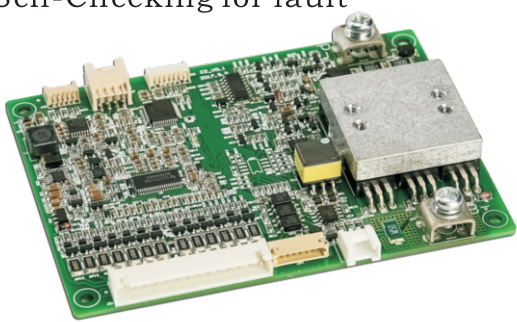
| Max cell support	15cells
Max charging current(continuous)	20A (configurable)
Max discharging current(continuous)	40A(configurable)
Max number of temperature sensor	4
Max balancing current	100mA
Precision of Voltage	<15mV
Precision of Current	10mA
Quiescent current	<15mA
Standby current	<200uA
Size	108*80*16mm/170*61.4*16mm
Operating temperature	-20~85℃

动力锂电池48V被动均衡BMS介绍

- BMS支持7~15节电芯的串联，以适应不同的电压系统
- 精确电量检测（SOC&SOH）功能，精度可达5%
- 欠压、过压保护；欠压、过压预告警功能
- 放电过流、充电过流预告警和保护功能；负载短路保护
- 充电过程中被动均衡
- 充放电过程中的过温、低温预告警和保护功能
- 支持极低电压禁止充电功能，保护电芯的安全
- 通讯接口支持UART,485,CAN等
- 支持上位机软件读取锂电池包及各节电芯当前状态(为客户定制)
- 具有睡眠和唤醒功能
- 高放电流、低温升
- 系统故障自检
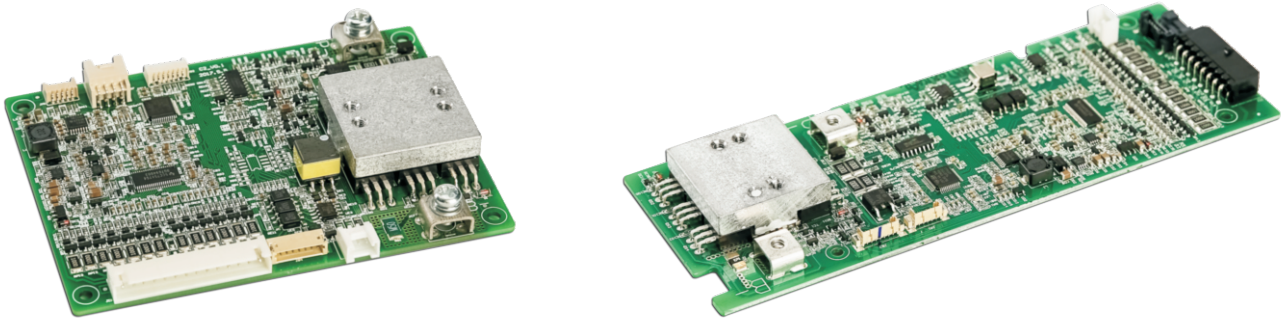
单板最多可支持电芯个数	15 cells
最大持续充电电流	20A (可配置)
最大持续放电电流	40A(可配置)
可配置温度传感器个数	4
最大均衡电流	100mA
电压检测精度	<15mV
电流检测精度	10mA
静态工作电流	<15mA
待机工作电流	<200uA
尺寸	108*80*16mm/170*61.4*16mm
工作温度范围	-20~85℃