

CS48100T / CS48150T



高温性能好
环境温度 < 38°C 下
自然冷却, 节省能源



智能保护
具有电压、电流
温度智能保护功能



使用寿命
3000次@0.5C, 80%DOD, 25°C



易运维
一体化BMS设计, 电池支持自管理
剩余电量、电池健康管理等功能



工作模式
自管理恒压放电、电源管理恒压放电、
电池特性放电模式恒功率放电等,
实现不同电池混合使用

BMS介绍

	介绍
通讯接口	RS485/RS232/CAN
信号采样功能	具备每个串联的单体电压、外部母排电压、电池组总电压、充放电电流、电芯表面温度、BMS单板温度采样
电芯均衡功能	电池具有被动均衡功能, 当充电时电芯压差超过一定值时, 可启动均衡功能
充电限流功能	具备在检测到电芯: 电压低、电压高、温度低、温度高、一致性差, 充电过流保护时自动进入限流充电
电压采集精度	0~5V, 检测精度≤10mV; 0~60V检测精度≤0.5%
电流采集精度	检测精度≤1% (0.5C充放电)
防盗功能	可具备软件防盗、通讯防盗、陀螺仪防盗等功能
系统器件失效告警	具备BMS板关键器件失效检测和告警功能, 检测到温度传感器失效, 电压检测失效, 充放电MOS失效等, 产生告警, 断开充放电回路 (如充放电回路损坏则不要求断开), 电池无法自动恢复, 所有指示灯闪烁提示
历史记录存储功能	历史记录存储500条、10000条、全寿命存储可选; 存储空间独立; BMS具备掉电保存能力; 历史数据记录包括电池组电压、电流、环境温度、SOC、SOH、循环次数、累计放电容量等数据

模组规格参数

型号	CS48100T	CS48150T
链接方式	1P15S	1P15S
额定能量	4800Wh	7200Wh
额定容量	100Ah	150Ah
额定电压	48V	48V
电压范围	42~58V	42~58V
充电电流	50A	50A
放电电流	100A	100A
工作温度	充电: 0~50°C; 放电: -20~55°C; 存储: -30~45°C	
自放电率	≤3% (0~30°C/3个月)	≤3% (0~30°C/3个月)
产品尺寸	440*410*130mm	440*525*130mm
产品重量	42Kg	59Kg



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SMART LITHIUM BATTERY SERIES-3U

COSPOWERS

CS48100T / CS48150T



Good performance in high-temperature environments

Natural cooling at ambient temperature <math><38^{\circ}\text{C}</math>, saving energy



Intelligent Protection

With voltage, current and temperature intelligent protection functions



Service life

3000times@0.5C
80%DOD, 25°C



Easy for operation and maintenance

Integrated BMS design, battery supports SOC self-management, SOH management and other functions



Operating Mode

Self-management of constant voltage discharging
Power management of Constant voltage discharge, battery characteristic discharging mode.
Constant power discharge, realize the mixed use of different batteries

BMS Introduction

	Introduction
Communication interface	RS485/RS232/CAN
Information sampling function	With each series-connected single cell voltage, external busbar voltage, total battery pack voltage, charging and discharging current, cell surface temperature, BMS single-board temperature sampling function
Battery Cell equalization function	The battery has a passive equalization function, which can be activated when the cell pressure difference exceeds a certain value during charging.
Charging current Limit function	With the function of automatically entering the current-limiting charging mode when detecting the battery cell: low voltage, high voltage, low temperature, high temperature, poor consistency, charging over-current protection
Voltage acquisition accuracy	0~5V, Detection accuracy $\leq 10\text{mV}$; 0~60V Detection accuracy $\leq 0.5\%$
Current acquisition accuracy	Detection accuracy $\leq 1\%$ (0.5C charging/discharging)
Anti-theft function	Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions
System component failure alarm	It has failure detection and alarm function for key components of BMS board. While it is detected with temperature sensor failure, voltage detection failures, charge and discharge MOS failure, an alarm will be generated and the charge and discharge loops will be disconnected (if the charge and discharge loop is damaged, it is not required to disconnect), the battery cannot recover automatically, and all the indicators flash to prompt.
History logs	500 historical records, 10000 historical records and life-cycle storage are optional; Independent storage space; BMS has power failure preservation capability; Historical data records include battery voltage, current, ambient temperature, SOC, SOH, cycle times, cumulative discharge capacity and other data

Module Specification and Parameters

Model	CS48100T	CS48150T
Connection Method	1P15S	1P15S
Rated Energy	4800Wh	7200Wh
Rated Capacity	100Ah	150Ah
Rated Voltage	48V	48V
Voltage Range	42~58V	42~58V
Charging Current	50A	50A
Discharge Current	100A	100A
Operating Temperature	charge: 0~50°C; discharge: -20~55°C; Storage: -30~45°C	
Self-discharging Rate	$\leq 3\%$ (0~30°C/3 months)	$\leq 3\%$ (0~30°C/3 months)
Size	440*410*130mm	440*525*130mm
Weight	42Kg	59Kg



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