

CLSS48100T宽温度型 HOT NEW

应用领域：
通信基站、宏站改造、方舱/户
外机柜供电、电网削峰填谷等
场景，兼容多种储能系统需求。



- 高低温性能好**
支持-40℃到60℃
宽温域工作
- 智能保护**
具有电压、电流、
温度智能保护功能
- 高安全**
产品采用电芯安全油液
全时浸没，可以做到过充
针刺不起火不爆炸
不会产生热失控
- 使用寿命长**
1000/3000/6000次
@0.5C，80%DOD，
25℃
- 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
- 自主控温**
内置加热组件和
循环系统，可以在高低温
情况下自主控温

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	CLSS48100T宽温度型
链接方式	1P16S
额定能量	5120Wh
额定容量	100Ah
额定电压	48V
电压范围	42~58V
充电电流	50A
放电电流	100A
工作温度	充电:-20~50℃（配加热）；放电:-20~55℃； 存储:-30~45℃
自放电率	≤3%（0~30℃/3个月）
尺寸（W*D*H）	440*555*180mm
重量	60Kg
认证	UL9540A、RoHS



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IMMERSIO INTELLIGENT LITHIUM BATTERY SERIES

CLSS48100T Wide-Temperature Range HOT NEW

Application Field:
Communication base stations, macro station retrofits, power supply for shelters/outdoor cabinets, grid peak shaving and valley filling, and other scenarios, compatible with various energy storage system requirements.



Excellent high and low temperature performance

Supports operation across a wide temperature range from -40°C to 60°C.



Intelligent protection

Features smart voltage, current, and temperature protection functions.



High Safety

The product features fully and continuously immersed cells in safety fluid, ensuring no fire or explosion even under overcharge or nail penetration tests, with zero risk of thermal runaway.



Long service life

1000/3000/6000 cycles @ 0.5C, 80% DOD, at 25°C.



Easy maintenance

Integrated BMS design supports battery self-management, remaining capacity, battery health monitoring, and other functions.



Operating modes

Includes self-managed constant voltage discharge, power-managed constant voltage discharge, and battery-characteristic discharge modes such as constant power discharge, enabling hybrid use of different battery types.



Autonomous Temperature Control

It features built-in heating components and a circulation system, enabling autonomous temperature control under both high and low-temperature conditions.

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≤10mV; 0~60V Detection accuracy≤0.5%
Current acquisition accuracy	Detection accuracy≤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	CLSS48100T
Connection Method	1P16S
Rated Energy	5120Wh
Rated Capacity	100Ah
Rated Voltage	48V
Voltage Range	42~58V
Charging Current	50A
Discharging Current	100A
Operating Temperature	Charging: -20~50°C (with heating); Discharging: -20~55°C; Storage: -30~45°C
Self-Discharge Rate	≤3% (at 0~30°C for 3 months)
Dimensions (W*D*H)	440*555*180mm
Weight	60Kg
Certifications	UL9540A, RoHS



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