

# IMMERSIO INTELLIGENT LITHIUM BATTERY SERIES

COSPOWERS

## 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

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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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