

IMMERSIO INTELLIGENT LITHIUM BATTERY SERIES

CLSS48100T 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.

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	1P15S	1P16S
Rated Energy	4800Wh	5120Wh
Rated Capacity	100Ah	
Rated Voltage	48V	
Voltage Range	42~58V	
Charging Current	50A	
Discharging Current	100A	
Operating Temperature	charge:0~50°C; discharge:-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	



Shenzhen Coslight Power Technology Co., Ltd.
W: WWW.COSPOWERS.COM
A: No.2, Guangtian Road, No.3 Industrial Zone, Luotian Community, Yanluo Street, Baoan District, Shenzhen, Guangdong Province, P.R.C
T: +86-755-33185898
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