

SMART LITHIUM BATTERY SERIES-3U

COSPOWERS

CS48100T / CS48150T

Application Fields:
Urban base stations,
remote area base
stations, emergency
communication base
stations, mobile base
stations, critical industry
base stations, high-load
base stations, and newly
constructed base
stations.



Excellent high and low temperature performance

Operates with natural cooling at ambient temperatures below 38°C, saving energy.



Intelligent protection

Equipped with intelligent voltage, current, and temperature protection functions.



Long service life

3000 cycles @ 0.5C, 80% DOD, at 25°C.



Easy maintenance

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



Operating modes

Multi-mode intelligent switching, compatible with multiple battery types, high-rate discharge, suitable for high-reliability scenarios such as communication base stations.

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	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
Discharging Current	100A	100A
Operating Temperature	charge:0~50°C; discharge:-20~55°C; Storage:-30~45°C	
Self-Discharge Rate	≤3% (0~30°C/3 months)	≤3% (0~30°C/3 months)
Dimensions (W*D*H)	440*420*130mm	440*525*130mm
Weight	42Kg	59Kg
Certifications	IEC62619, IEC62620, UL1973, UN38.3, ROHS, TLC, EMC	IEC62619, IEC62620, UL1973, UN38.3, ROHS, TLC



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