SMART LITHIUM BATTERY SERIES-2U

COSPOWERS

CS48100T NEW

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℃, saving energy.

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

Long service life
3000 cycles @ 0.5C, 80% DOD, at 25℃.

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. Whileit 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
Connection Method	1P15S
Rated Energy	4800Wh
Rated Capacity	100Ah
Rated Voltage	48V
Voltage Range	42~58V
Charging Current	50A
Discharging Current	100A
Operating Temperature	Charging: 0~50℃; Discharging: -20~55℃; Storage: -30~45℃
Self-Discharge Rate	≤3% (0~30℃ / 3 months)
Dimensions (W*D*H)	440*580*88mm
Weight	42Kg
Certifications	IEC62619、IEC62620、UL1973、UN38.3、ROHS、TLC、EMC