

SMART LITHIUM BATTERY SERIES-5U

COSPOWERS

CS48300T

Application Field: Urban Base Station,
Remote Area Base Station, Emergency
Communication Base Station,
Mobile Base Station,
Key Industry Base Station,
High-load Base Station,
Newly-built Base Station



Good performance in high-temperature environments

Natural cooling at ambient temperature <math><38^{\circ}\text{C}</math>, saving energy



Intelligent Protection

With voltage, current and temperature intelligent protection functions



Service life

3000times@0.5C
80%DOD, 25°C



Easy for operation and maintenance

Integrated BMS design, battery supports SOC self-management, SOH management and other functions



Operating Mode

Self-management of constant voltage discharging
Power management of Constant voltage discharge, battery characteristic discharging mode.
Constant power discharge, realize the mixed use of different batteries

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 $\leq 10\text{mV}$; 0~60V Detection accuracy $\leq 0.5\%$
Current acquisition accuracy	Detection accuracy $\leq 1\%$ (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	CS48300T
Connection method	1P15S
Rated energy	14400Wh
Rated capacity	300Ah
Rated voltage	48V
Voltage range	42~58V
Charging current	100A
Discharge current	100A
Operating temperature	charge: 0~50°C; discharge: -20~55°C; Storage: -30~45°C
Self-discharging rate	$\leq 3\%$ (0~30°C/3 months)
Size(W*D*H)	442*545*222mm
Weight	105Kg
Certification	IEC62619, UL1973, UL9540A



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