SMART SODIUM-ION BATTERY SERIES-4U

COSPOWERS

CN48100T/CN4875T

Good performance in high-temperature environments
Natural cooling at ambient temperature <50℃, saving energy

Intelligent Protection
With voltage, current and temperature intelligent protection unctions

Easy for operation and maintenance
Integrated BMS design, battery supports SOC self-management、SOH management and other functions

Anti-theft function
Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions are optional

Operating Mode
Self-management constant voltage discharging, power management of constant voltage discharge, battery characteristic discharging mode and constant power discharge, which realize the mixed use of different batteries and profiting from storing electricity during off-peak hours and discharging during peak hours according to the Peak-valley price.

BMS Introduction

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Communication interface	RS485/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 are optional
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	CN48100T	CN4875T
Connection Method	1P16S	1P15S
Rated Energy	4960Wh	3487Wh
Rated Capacity	100Ah	75Ah
Rated Voltage	48V	48V
Voltage Range	40~58V(22~58V)	40~58V(22~58V)
Charging Current	50A	40A
Discharge Current	100A	80A
Operating Temperature	charge：0~50℃；discharge：-20~55℃；Storage：-30~45℃	charge：-10-50℃；discharge：-30~70℃；Storage：-30~45℃
Self-discharging Rate	≤3% (0~30℃/3 months)	≤3% (0~30℃/3months)
Size	440*420*176mm	440*420*130mm
Weight	53Kg	42Kg
Life cycles	＞2000times @80%DOD，0.5C/0.5C	＞2000times @80%DOD，0.5C/0.5C