

SMART SODIUM-ION BATTERY
SERIES-5U

COSPOWERS

CN48100T

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
Operates with natural cooling at ambient temperatures below 50°C, saving energy.

Intelligent protection
Features smart voltage, current, and temperature protection functions.

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

Anti-theft functionality
Compatible with various optional anti-theft features.

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		Module Specification and Parameters		
	Introduction	Model	CN48100T	
Communication interface	RS485/RS232/CAN	Connection Method	1P10S	1P16S
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	Rated Energy	4800Wh	4640Wh
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.	Rated Capacity	100Ah	100Ah
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	Rated Voltage	48V	46.4V
Voltage acquisition accuracy	0~5V, Detection accuracy≤10mV; 0~60V Detection accuracy≤0.5%	Voltage Range	40~58V(22~58V)	40~58V(22~58V)
Current acquisition accuracy	Detection accuracy≤1% (0.5C charging/discharging)	Charging Current	50A	50A
Anti-theft function	Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions	Discharging Current	50A	100A
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.	Operating Temperature	Charging: -10~50°C; Discharging: -30~70°C; Storage: -30~45°C	
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	Self-Discharge Rate	≤3% (0~30°C / 3 months)	
		Dimensions (W*D*H)	440*550*200mm	440*430*222mm
		Weight	46Kg	76Kg
		Lifespan	4000 cycles @80% DOD, 0.5C/0.5C	
		Certification	YD2344.1-2023、UN383	