

SMART SODIUM-ION BAT SERIES 4 U

CN 48100 T / CS 4875 T



Good performance in high-temperature environments

Natural cooling at ambient temperature < 50 °C, saving energy.



Intelligent protection

With voltage, current and temperature intelligent protection functions.



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

Parameters/model	CN 48100 T	CN 4875 T
Connection method	1P16S	1P15S
Rated energy	4960 Wh	3487 Wh
Rated capacity	100 Ah	75 Ah
Rated voltage	48 V	48 V
Voltage range	40 ~ 58 V (22 ~ 58 V)	40 ~ 58 V (22 ~ 58 V)
Charging current	50 A	40 A
Discharge current	100 A	80 A
Operating temperature	Charge: 0 ~ 50 °C; discharge: -20 ~ 55 °C; storage: -30 ~ 45 °C	Charge: -10 ~ 50 °C; discharge: -30 ~ 70 °C; storage: -30 ~ 45 °C
Self-discharging rate	≤ 3 % (0 ~ 30 °C / 3 months)	
Size	440 x 420 x 176 mm	440 x 420 x 130 mm
Weight	53 kg	42 kg
Life cycles	> 2000 times @ 80 % DOD, 0.5 C / 0.5 C	
Communication interface	RS485 / CAN	
Charging current limit function	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 ~ 5 V, detection accuracy ≤ 10 mV; 0 ~ 60 V detection accuracy ≤ 0.5 %	
Current acquisition accuracy	Detection accuracy ≤ 1 % (0.5 C charging / discharging)	
Anti-theft function	Software anti-theft, communication anti-theft, gyroscope anti-theft. Other functions are optional.	
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.	
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.	