

# SMART SODIUM-ION BATTERY SERIES-4U/5U

**COSPOWERS**

## CN4875T/CN48100T

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><50^{\circ}\text{C}</math>, 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 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/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 $\leq$ 10mV; 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	CN4875T	CN48100T
Connection method	1P15S	1P16S
Rated energy	3480Wh	4640Wh
Rated capacity	75Ah	100Ah
Rated voltage	46.4V	46.4V
Voltage range	40~58V(22~58V)	40~58V(22~58V)
Charging current	35A	50A
Discharge current	75A	100A
Operating temperature	charge:-10~50°C; discharge:-30~70°C; Storage:-30~45°C	charge:0~50°C; discharge:-20~55°C; Storage:-30~45°C
Self-discharging rate	$\leq$ 3% (0~30°C/3 months)	$\leq$ 3% (0~30°C/3 months)
Size(W*D*H)	440*430*176mm	440*430*222mm
Weight	55kg	76kg
Life cycles	>2000times @80%DOD, 0.5C/0.5C	>2000times @80%DOD, 0.5C/0.5C
Certification	YD2344.1-2023、UN383	



Shenzhen Coslight Power Technology Co., Ltd.

W: WWW.COSPOWERS.COM

A: No.2, Guangtian Road, No.3 Industrial Zone, Luotian Community, Yanluo Street, Baoan District, Shenzhen, Guangdong Province, P.R.C

T: +86-755-33185898

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