

CN48170T NEW

应用领域：
城市基站、偏远地区
基站、应急通信基站、
移动基站、重要行业
基站、高负荷基站、新
建基站



高温性能好
环境温度 < 50℃下
自然冷却，节省能源
部分产品支持-10℃充电

智能保护
具有电压、电流
温度智能保护功能

易运维
一体化BMS设计，电池支持自我管理
剩余电量、电池健康管理等功能

防盗功能
可选配多种防盗功能

工作模式
自我管理恒压放电
电源管理恒压放电
电池特性放电模式，恒功率放电等
实现不同电池混合使用

BMS介绍

	介绍
通讯接口	RS485/CAN
信号采样功能	具备每个串联的单体电压、外部母排电压、电池组总电压、充放电电流、电芯表面温度、BMS单板温度采样
电芯均衡功能	电池具有被动均衡功能，当充电时电芯压差超过一定值时，可启动均衡功能
充电限流功能	具备在检测到电芯：电压低、电压高、温度低、温度高、一致性差，充电过流保护时自动进入限流充电
电压采集精度	0~5V，检测精度≤10mV；0~60V检测精度≤0.5%
电流采集精度	检测精度≤1%（0.5C充放电）
防盗功能	可具备软件防盗、通讯防盗、陀螺仪防盗等功能
系统器件失效告警	具备BMS板关键器件失效检测和告警功能，检测到温度传感器失效，电压检测失效，充放电MOS失效等，产生告警，断开充放电回路（如充放电回路损坏则不要求断开），电池无法自动恢复，所有指示灯闪烁提示
历史记录存储功能	历史记录存储500条、10000条、全寿命存储可选；存储空间独立；BMS具备掉电保存能力；历史数据记录包括电池组电压、电流、环境温度、SOC、SOH、循环次数、累计放电容量等数据

模组规格参数

型号	CN48170T
链接方式	1P16S
额定能量	7752Wh
额定容量	170Ah
额定电压	46.4V
电压范围	40~58V(22~58V)
充电电流	50A
放电电流	100A
工作温度	充电:-10~50℃；放电:-30~70℃；存储:-30~45℃
自放电率	≤3% (0~30℃/3个月)
尺寸(W*D*H)	440*580*222mm
重量	105Kg
寿命	> 4000次 @80%DOD, 0.5C/0.5C
认证	YD2344.1-2023、UN38.3



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SMART SODIUM-ION BATTERY
SERIES-5U

COSPOWERS

CN48170T

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
At ambient temperatures below 50°C, natural cooling is employed to save energy, and select products support charging at -10°C.

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	CN48170T
Communication interface	RS485/RS232/CAN	Connection Method	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	7752Wh
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	170Ah
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	46.4V
Voltage acquisition accuracy	0~5V, Detection accuracy≤10mV; 0~60V Detection accuracy≤0.5%	Voltage Range	40~58V(22~58V)
Current acquisition accuracy	Detection accuracy≤1% (0.5C charging/discharging)	Charging Current	50A
Anti-theft function	Software anti-theft, communication anti-theft, gyroscope anti-theft and other functions	Discharging Current	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*580*222mm
		Weight	105Kg
		Lifespan	> 4000 cycles @80% DOD, 0.5C/0.5C
		Certification	YD2344.1-2023、UN38.3