

浸没式钠电池系统
CNS80050U

NEW HOT



- 1 高安全性：全浸没式技术，完全隔绝氧气，阻燃、防爆、防冒烟

2 均温性：浸没式电芯，均温性能高

3 经济性：精准控温，温差 $\leq 2^{\circ}\text{C}$ ，一致性高，超长循环寿命
- 4 灵活性：空间节省，模块化设计支持紧凑布局，占地面积减少

5 兼容性：系统兼容二/三线设计，满足不同UPS机型要求

6 高效热管理，电芯全时全域浸没，高效热管理，系统效率提升3%

产品参数

产品型号		CNS80050U	
电芯材料	钠离子电芯		
标称电压	741Vdc		
额定充电电压	910Vdc		
标称容量	50Ah/37.05kWh		
自放电率	≤3% (0-30°C/3 个月)		
标准放电电流	50A连续放电（1C）		
最大放电电流	300A连续放电（6C）		
标准充电电流	25A（0.5C）		
最大充电电流	50A（1C）		
循环寿命	4000次 @80%DOD，0.5C/0.5C		
通信接口	CAN；RS485；干接点		
保护功能	过温，过流，短路，过充，过放等		
尺寸(W*D*H)	1200*1000*2000mm		
环境			
存储温度	-40~60°C		
运输温度	-40~60°C		
工作环境温度	-20~60°C		
相对湿度	5~95%		
海拔	≤2000m		
单簇性能数据			
时间	10分钟	15分钟	20分钟
功率	182kW	121kW	91kW
电流	300A	150A	100A



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Data Center Short Duration Power Backup Series

COSPOWERS

CNS80050U

Immersion-Cooled
Sodium Battery System

NEW 



- 1 High Safety:** Fully immersion technology completely isolates oxygen, providing protection against fire, explosion, and smoke.
- 2 Temperature Uniformity:** Immersion battery cells offer excellent temperature uniformity.
- 3 Cost-Effectiveness:** Precise temperature control with a temperature difference $\leq 2^{\circ}\text{C}$ ensures high consistency and ultra-long cycle life.
- 4 Flexibility:** Space-saving, modular design supports compact layouts, reducing the required footprint.
- 5 Compatibility:** The system is compatible with two/three-line configurations, meeting the requirements of various UPS models.
- 6 Efficient Thermal Management:** Full-time, full-area immersion of battery cells enables efficient thermal management, increasing system efficiency by 3%.

Product parameters

Product model		CNS80050U	
Cell Material	Na ⁺		
Nominal Voltage	741Vdc		
Rated Charging Voltage	910Vdc		
Nominal Capacity	50Ah/37.05kWh		
Self-Discharge Rate	≤3% (0~30°C/3 months)		
Standard Discharge Current	50A Continuous discharge(1C)		
Maximum Discharge Current	300A Continuous discharge(6C)		
Standard Charging Current	25A(0.5C)		
Maximum Charging Current	50A(1C)		
Cycle Life	4000 cycles @80%DOD, 0.5C/0.5C		
Communication Interface	CAN; RS485; Dry contact		
Protection Functions	Over-temperature, over-current, short circuit, over-charging, over-discharging, etc.		
Dimensions (W*D*H)	1200*1000*2000mm		
Environment			
Storage Temperature	-40~60°C		
Transportation Temperature	-40~60°C		
Operating Ambient Temperature	-20~60°C		
Relative Humidity	5~95%		
Altitude	≤2000m		
Single Rack Performance Data			
Time	10-minute	15-minute	20-minute
Power	182kW	121kW	91kW
Energy	300A	150A	100A



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