

Data Center Short Duration Power Backup Series

COSPOWERS

CNS80050U

Immersion-Cooled
Sodium Battery System

NEW HOT



- 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



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
Copyright and final interpretation rights belong to Shenzhen Coslight Power Technology Co., Ltd.