



PowerMount-P960-2007kWh

Factory Acceptance Test Report

1. Test Information

- **Test Product:**

Container Energy Storage System

- **Test Objective:**

To ensure that the equipment fully meets the standards before delivery and meets customer needs.

- **Test Conclusion:**

PASS

- **Supplier:**

Dunext Technology Xiamen Co., Ltd.

2. Test Project

System Type: Container Energy Storage System Model: PowerMount System Capacity: 960kW/2007kWh Customer Name: Test Date:				
No.	Test Items	Testing Standards / Technical Requirements	Data Record	Result
1	Design inspection and appearance inspection			
1.1	Dimensions	Dimensions (W*D*H): 6058*2438*2896mm		☐ PASS ☐ NG
1.2	Appearance inspection	The equipment shell is free of stains, deformation, rust and corrosion, and the surface is neat and clean		☐ PASS ☐ NG
2	Basic functions test			
2.1	External interface	AC Power interface: 1 channel 3P4W+PE		☐ PASS ☐ NG
		Communication interface: 2 channel RJ45, 1 channel RS485 interface		☐ PASS ☐ NG
		Grounding interface: 2 grounding interfaces		☐ PASS ☐ NG
2.2	Data display	Through the HMI, the system power, SOC and other information can be accurately read.		☐ PASS ☐ NG
2.3	System basic control test (via HMI)	Click the system startup button on the HMI interface, the system starts and runs normally without any fault information.		☐ PASS ☐ NG
		Issue a 400kW charging power command on the HMI interface, and the system should operate normally.		☐ PASS ☐ NG
		Issue a 400kW discharging power command on the HMI interface, and the system should operate normally.		☐ PASS ☐ NG
		Click the system shutdown button on the HMI interface, and the system should shut down normally.		☐ PASS ☐ NG
2.4	System basic control test (via EMS)	Click the system startup button on the EMS interface, the system starts and runs normally without any fault information.		☐ PASS ☐ NG
		Issue a 400kW charging power command on the EMS interface, and the system should operate normally.		☐ PASS ☐ NG
		Issue a 400kW discharging power command on the EMS interface, and the		☐ PASS ☐ NG

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		system should operate normally.		
		Click the system shutdown button on the EMS interface, the system should shut down normally.		☐ PASS ☐ NG
2.5	System basic control test (via remote control)	Click the system startup button on the host computer, the system starts and runs normally without any fault information.		☐ PASS ☐ NG
		Issue a 400kW charging command from the host computer via either Modbus TCP or Modbus RTU protocol. The system should maintain normal operation.		☐ PASS ☐ NG
		Issue a 400kW discharging command from the host computer via either Modbus TCP or Modbus RTU protocol. The system should maintain normal operation.		☐ PASS ☐ NG
		Click the system shutdown button on the host computer, the system should shut down normally.		☐ PASS ☐ NG
3	System functional safety test			
3.1	System emergency shutdown	Tap the EPO button on any battery cabinet door when the system is running, the DC circuit breaker inside the battery cabinet will trip, and the corresponding battery cabinet will stop running and issue an alarm message.		☐ PASS ☐ NG
		Tap the EPO button outside the container or the EPO button on the PCS cabinet door when the system is running, the system will stop running and issue an alarm message.		☐ PASS ☐ NG
3.2	Fire alarm system	Level 1 Fire alarm: remove the fire system solenoid valve power supply line (to prevent the fire protection device from spraying due to test), artificially create smoke, trigger a smoke detector in the battery cabinet, the corresponding battery cabinet will shut down and issue an alarm message.		☐ PASS ☐ NG

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		Level 2 Fire alarm: remove the fire system solenoid valve power supply line (to prevent the fire protection device from spraying due to test), artificially create smoke, trigger the battery cabinet 2 smoke detectors, the corresponding battery cabinet shuts down and issue an alarm message. When the fire is triggered, the battery valve power supply interface outputs over 24V, the system shutdown, the alarm bell and sound and light alarms are triggered		☐ PASS ☐ NG
		Fire alarm in electrical compartment: When the system is charged and discharged at any power, artificial smoke is created to trigger one smoke detector in the electrical compartment, the PCS should be shut down; Artificial smoke is created to trigger two smoke detectors in the electrical compartment, the PCS should be shut down, and the alarm bell is triggered		☐ PASS ☐ NG
4	System performance test			
4.1	System energy	The system is first discharged at rated power (subject to the actual factory permitted power), until the system protection stops discharging; The system is filled up again at rated power until the system protection stops charging; record the accumulated charging power of charging; Check that the cumulative charging power of the system should be $\geq 2007\text{kWh}$		☐ PASS ☐ NG
5	Other matters			
5.1	Shipping SOC	The system is charged at 150kW power until the system SOC is in the range of 40% to 60%		☐ PASS ☐ NG

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5.2	Interface language	Language settings, the language of the HMI and EMS displayed is bilingual in Chinese and English		☐ PASS ☐ NG
6	Test Summary			
7	Conclusion	☐ PASS ☐ NG		
Tester: Reviewer: Customer: Date: Date: Date:				