

# Sodium ion battery energy storage system

Model: HJ-NESS-115kWh/□HJ-NESS-125kWh    Power: 60 kW/115 kWh/125 kWh

## Summary

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Highjoule's sodium-ion energy storage solution offers a safer and more thermally stable alternative to lithium-ion systems. With excellent performance in low and high temperatures, and lower material costs, it is ideal for stationary applications such as grid peak shaving, commercial backup, and renewable energy storage—especially in regions where thermal risks or cost constraints limit lithium-ion use.



*Sodium ion battery energy storage system (HJ-NESS-115kWh/□HJ-NESS-125kWh)*

## Product Features

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### High-rate Continuous Charge/Discharge

Sodium-ion batteries exhibit lower solvation energy compared to lithium-ion batteries, enabling enhanced interfacial ion diffusion. This grants the sodium-ion storage cabinet exceptional high-rate continuous charge/discharge performance.

### Energy Efficiency Exceeds Lithium-ion Systems by Over 2%

Under identical energy input/output scenarios, sodium-ion cabinets deliver higher efficiency in energy storage and release, minimizing losses. This reduces operational costs while boosting economic viability and energy utilization.

### 100% DOD (Depth of Discharge)

The cabinet supports full 100% DOD, allowing complete discharge of stored energy to maximize capacity utilization.

### Shortened ROI Period for Commercial/Industrial Storage

Leveraging the inherently lower cost of sodium-ion batteries and their high-rate performance, the solution effectively accelerates return on investment in commercial/industrial energy storage applications.

## Technical Parameters

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### Product Parameters

Parameter	HJ-NESS-115kWh	HJ-NESS-125kWh
Nominal Capacity	115 kWh	125 kWh
Rated Power	60 kW	60 kW
Configuration	1P240S	1P260S
Dimensions (WDH)	1200*1400*2480 mm	1200*1500*2580 mm
Nominal Voltage	720 V	741 V
Voltage Range	360 V ~ 864 V	520 V ~ 910 V
Cycle Life	6000 cycles	6000 cycles

### Application

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Ideal for safe, low-cost, wide-temperature energy storage—an alternative to lithium-ion in commercial and grid applications.

### Contact Us

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