

# 2MWh Energy Storage Container System

Model: HJ-G1000-2200F    Power: 1MW/2.2MWh

## Summary

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HighJoule's scalable, high-efficiency 2MWh energy storage system provides reliable, cost-effective solutions for commercial, industrial, and utility-scale applications. With 95% efficiency, modular design, and seamless integration with renewable energy sources, this system enhances grid stability and reduces energy costs. Ideal for large-scale energy storage needs.



*2MWh Energy Storage Container System (HJ-G1000-2200F)*

## Product Features

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### High-Capacity Battery System

Equipped with 140 51.2V/314Ah battery packs, offering a total capacity of 2250.752 kWh for reliable, large-scale energy storage.

### Modular Design

40ft container system with a flexible modular design, ideal for easy expansion and integration into diverse energy applications.

### Power Conversion System (PCS)

500kW PCS with both off-grid and on-grid options, enabling adaptable energy storage for various configurations.

### Integrated Convergence Control

Advanced EMS and parallel convergence system for efficient energy management and system integration across multiple units.

### Comprehensive Electric Control

Includes EMS system and AC power distribution system for seamless power management and control within the storage container.

### Advanced Fire Protection

Equipped with a fire protection system, including fire control cabinets, gas cylinders, sound and light alarms for maximum safety and compliance.

### Comprehensive Monitoring System

Access control system and environmental monitoring ensure full operational visibility and security, allowing for real-time performance tracking.

### Efficient Air Conditioning

Floor-standing integrated air conditioning system with a 20KW cooling capacity, ensuring optimal temperature control for the entire container.

### Enhanced Safety Design

Equipped with thermal protection, emergency shutdown, and fire suppression system for reliable, safe, and long-lasting energy storage.

### All-Weather Outdoor Design

Built for harsh outdoor conditions with weather-resistant materials and IP54-rated protection, ensuring the system operates in extreme temperatures.

### Scalable & Flexible

Perfect for large-scale energy projects with scalable features and flexible integration options for future growth.

## Technical Parameters

<b>Model</b>	<b>HJ-G1000-2200F</b>
<b>Container System</b>	<b>40ft container</b>
<b>Battery System (with BMS)</b>	<b>Containing 140 51.2V/314Ah battery PACKs, total battery capacity 2250.752KWh</b>
<b>PCS</b>	<b>500KW, off-grid and on-grid optional</b>
<b>Convergence control cabinet</b>	<b>EMS system, parallel convergence system</b>
<b>Electric Control Cabinet</b>	<b>EMS system, AC power distribution system</b>
<b>Fire Fighting System</b>	<b>Containing fire protection cabinet, fire control cabinet, fire protection host, fire protection gas cylinder, do not enter sign, sound and light alarms</b>
<b>Monitoring System</b>	<b>Containing access control system, environmental monitoring system</b>
<b>Air Conditioning System</b>	<b>Floor-standing integrated machine, rated cooling capacity 20KW, including air conditioning duct system</b>

## Application

HighJoule HJ-G1000-2200F 2MWh Energy Storage Container System combines a large-

capacity battery system of up to 2.25MWh (140 51.2V/314Ah battery packs) with a 500kW adjustable power conversion system, supporting both off-grid and grid-connected modes. Compared with other similar products, its unique integrated EMS system and fire protection system provide higher safety and intelligent management capabilities. Designed for commercial, industrial, and large-scale renewable energy storage needs, it is particularly suitable for grid stability, renewable energy integration, and off-grid power systems in remote areas. It can provide reliable support and optimize energy efficiency during high-demand periods, reducing energy costs.

## Contact Us

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