

1MWh Energy Storage Container System

Model: HJ-G500-1200F Power: 500KW/1.2MWh

Summary

HighJoule's 1MWh energy storage container system provides cutting-edge solutions to meet the growing demand for clean, reliable and scalable energy storage. The HJ-G500-1200F is designed to provide flexible and efficient energy backup solutions, reduce operating costs, and support the development of sustainable energy.



1MWh Energy Storage Container System (HJ-G500-1200F)

Product Features

High-Capacity Storage

241kWh lithium-ion battery offers reliable, long-lasting power storage, perfect for backup and energy management in demanding environments.

Outdoor-Ready Design

IP54-rated weather-resistant cabinet built to withstand extreme temperatures, dust, and moisture for reliable outdoor performance.

Modular & Scalable

Modular design with parallel connection capability, allowing seamless scalability to meet evolving energy needs.

All-in-One Cabinet

Integrated Battery Management System (BMS), Energy Management System (EMS), fire suppression, and climate control for high-performance, all-in-one solution.

Fast Deployment

Efficient installation with a plug-and-play setup, minimizing deployment time and reducing site preparation costs.

Smart Monitoring

Advanced real-time monitoring via smart EMS platform with fault alerts, system status updates, and remote diagnostics for operational optimization.

Comprehensive Safety Design

Built-in advanced safety features such as thermal runaway protection, emergency shutdown, and fire suppression to ensure system integrity and user safety.

Multi-Scenario Application

Perfect for telecom base stations, off-grid locations, microgrids, and emergency backup power across a variety of industries.

Technical Parameters

Product Parameters

Model	HJ-G500-1200F
Container System	20ft container (6058*2438*2896mm)
Battery System (with BMS)	75 51.2V/314Ah battery PACKs, total battery capacity 1205.760KWh
PCS	500KW, off-grid and grid-connected optional
Convergence control cabinet	EMS system, parallel convergence system
Electric Control Cabinet	EMS system, AC power distribution system
Fire Fighting System	Containing fire protection cabinet, fire control cabinet, fire protection host, fire protection gas cylinder, do not enter sign, sound and light alarms
Monitoring System	Containing access control system, environmental monitoring system
Air Conditioning System	Floor-standing integrated machine, rated cooling capacity 20KW, including air conditioning duct system

Application

As compared to massive 2MWh installations or smaller 415kWh solutions, the HJ-G500-1200F 1MWh containerized energy storage solution strikes a balance in capacity and is optimally suited for regional sites, commercial buildings, and medium-sized businesses. It combines flexibility with efficiency to meet the needs of medium-sized energy consumers, while offering modular scalability to accommodate increasing demand. Its compact size allows for rapid deployment, making it an ideal fit for small microgrids, off-grid applications, or regional telecom base stations, providing reliable power without the need for large-scale energy storage.

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