



Lifepo4 per Battery Pack 153.6V 259KWh Reliable Smart High integration with BMS Liquid cooled Lithium Battery Storage Solar Generator Battery, 10-year Lifespan

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: HNYK
- Certification: CE UN38.3 UL
- Model Number: Star Series Cabinet ESS
- Minimum Order Quantity: 1 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T
- Supply Ability: consult online



Star Series - Cabinet ESS

Product Specification

- Rated Capacity: 258kWh/289kWh/385kWh
- Rated Power: 120kW/135kW
- Nominal Voltage: AC380V (AC315/290V)
- Cooling Method: Liquid Cooling
- IP Protection Level: IP54
- Communication Interface: RS485
- Highlight: lifepo4 lithium battery storage,
lifepo4 commercial energy solutions,
ip54 lithium battery storage



Star Series — Cabinet ESS

Product Description

LifePo4 per Battery Pack 153.6V 259KWh Reliable Smart High integration with BMS Liquid cooled Lithium Battery Storage Solar Generator Battery, 10-year Lifespan

Star Series - Cabinet ESS

The **Star Series Cabinet Energy Storage System (ESS)** is designed to deliver robust and intelligent energy storage solutions for industrial and commercial applications. It combines high integration, reliability, and advanced features to meet the demands of modern energy management.

Product interior

- 01 • System monitoring
- 02 • Electric quantity measuring unit
- 03 • Surge protection
- 04 • Energy measuring unit
- 05 • Inverter unit
- 06 • Liquid cooling system
- 07 • Battery pack
- 08 • AC protection



Liquid cooled battery pack

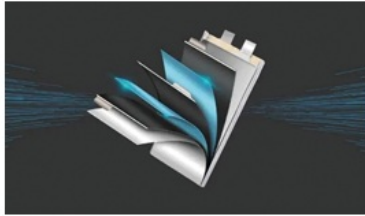
The standard liquid-cooled battery pack uses an integrated housing with a liquid cooling system at the bottom.

A battery pack with a voltage of 153.6V and a capacity of 280Ah is composed of 4 standard modules in series.



Model	Star 258/Pro	Star289/Pro	Star 385/Pro
Rated capacity	258kWh	289kWh	385kWh
Rated power	120kW	135kW	/
Nominal voltage	AC380V (AC315/290V)		
Rated output frequency	50Hz		
Unbalanced load capacity	100%		
IP protection level	IP54		
Cooling method	Liquid cooling		
Noise	<65dB(1m away from the system)		
Size	W1578*D1380*H2450mm W1578*D1380*H2500mm		
Communication interface	RS485		
Communication protocol	Modbus tcp		

High energy density LFP material



- **High energy density :**

Material pole pieces compacted density can reach to 2.75g/cc

- **High capacity :**

Gram capacity above than 145mAh/g

- **Long cycle life :**

The cycle life above than 10000 times



Key Applications:

Industrial and Commercial Energy Management:

Support peak shaving, demand response, and power load balancing to reduce energy costs.

Renewable Energy Integration:

Store surplus renewable energy (e.g., solar, wind) for later use, ensuring stability in power supply.

Backup Power Systems:

Provide reliable backup during grid outages for critical operations.

Smart Energy Monitoring:

Real-time operational insights through integrated monitoring systems.

Product Advantages:

High Integration and Flexibility:

Modular and plug-and-play design ensures quick installation and easy scalability for various scenarios.

Supports flexible load configuration and parallel use for expanded capacity.

Smart and Reliable:

Equipped with an advanced iBMS for lifecycle safety management and SOC correction algorithms, improving accuracy by 3% and extending battery life by 15%.

Cloud security warning system offers 24/7 monitoring for enhanced safety.

Robust Safety Features:

Meets IP54 protection standards, ensuring resistance against dust and water.

Anti-corrosion outer casing (C4H standard) guarantees a service life exceeding 15 years.

Superior Performance:

Liquid cooling technology ensures efficient temperature management, making it suitable for complex and harsh environments.

Operates at low noise levels (<65dB), maintaining a quiet environment.

Advanced Connectivity:

Supports RS485 communication interface and Modbus TCP protocol for seamless integration into smart grid and energy management systems.

Model Variations:

Star 258/Pro: 258kWh capacity, 120kW rated power.

Star 289/Pro: 289kWh capacity, 135kW rated power.

Star 385/Pro: 385kWh capacity, designed for high-capacity needs.

Shipping Methods

Supports global air and sea shipping

If you require more detailed product information or have customized requests, please contact us. Providing efficient service that satisfies our customers is our responsibility.



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