



Lithium Battery Storage Solution for Industrial and Commercial Users 233.96kWh/100kW Energy Storage System

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: SHEL
- Certification: UN38.3, IEC62619, UL1973, UL9540 and CE-EMC
- Model Number: E233LS
- Minimum Order Quantity: 1 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T
- Supply Ability: consult online



All-in-one Liquid-cooled ESS Cabinet -E233LS

Product Specification

- Cell Type: LFP280Ah
- PACK: 46.592kWh/1P52S
- Battery System: 233.96kWh/1P260S
- Voltage Range: 728~936Vdc
- Rated Power: 100kW
- Highlight: **industrial lithium battery storage ,
industrial commercial energy solutions,
commercial lithium battery storage**

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Product Description

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The all-in-one liquid-cooled ESS cabinet adopts advanced cabinet-level liquid cooling and temperature balancing strategy. The cell temperature difference is less than 3°C, which further improves the consistency of cell temperature and extends the battery life. The modular design makes the parallel solution more flexible and has higher energy density, which significantly improves the economy, safety and construction convenience of ESS projects.

Product Description

Features



Compact
1.4m² footprint only, easy transportation & fast installation.



High Integration
233kWh energy in one cabinet and ensure long-term endurance.



Efficient Cooling
Optimal in-PACK duct design, achieve high-efficient cooling and low energy consumption.



Long Cycle Life
Over 8,000 times cycle life, excellent performance of battery system.



Flexible Expansion
Modular design, simplified parallel expansion.



Ultimate Safety
In-PACK fire warning and protection with NOVEC1230/aerosol, prevent heat diffusion and runaway.

The **233.96kWh/100kW Energy Storage System** is a highly advanced solution designed to meet the diverse energy storage needs of industrial and commercial users. Built with **LFP280Ah cells** and a modular **PACK design (46.592kWh/1P52S)**, this system offers superior reliability, safety, and performance. With a wide voltage range of **728~936Vdc** and a rated power output of **100kW** (max. 110kW), it delivers stable and efficient energy storage and discharge capabilities. The system boasts a **charge/discharge rate of 0.5P**, a **Depth of Discharge (DoD) of 95%**, and an impressive cycle life of **≥8,000 times**, ensuring long-term durability and cost-effectiveness.

This energy storage system is equipped with **active liquid cooling**, enabling optimal thermal management and efficient operation across a wide temperature range of **-25°C to 55°C**. The advanced **SOC accuracy (<3%)** ensures precise energy management, while its **IP55 ingress protection** and compliance with global safety standards such as **UN38.3, IEC62619, UL9540, and CE-EMC** make it suitable for deployment in challenging environments. Compact in design with dimensions of **1,0501,3502,400(mm)** and a weight of **2,500kg**, this system provides a perfect balance of power, safety, and scalability for medium-scale energy applications.

DC Side	
Cell Type	LFP280Ah
PACK	46.592kWh/1P52S
Battery System	233.96kWh/1P260S
Voltage Range	728~936Vdc
PACK Ingress Rating	IP65
AC Side	
Rated Power	100kW
Max.Power	110kW
THDi	≤3%

DC Ratio	<0.5%lpn
Nominal Voltage	400Vac/3P+N+PE
Power Factor	-1 lagging~1 leading
Nominal Frequency	50Hz/60Hz
General	
System Efficiency	≥90%
Charge/Discharge Rate	0.5P
DoD	95%(25±2°C)
SOC Accuracy	<3%
Cycle Life	≥8,000 times
Switching Time	<100ms
Connectivity	Ethernet /RS485
Ingress Rating	IP55
Cooling	Active liquid cooling
Operating Temperature	-25°C~55°C
Humidity	5~95%RH,non-condensing
Noise	≤75dB
Altitude	≤2,000m (derating above 2,000m)
Fire Safety	NOVEC1230/aerosol
Dimensions(W*D*H)	1,050*1,350*2,400(mm)
Weight	2500kg
Compliance	UN38.3,IEC62619,UL1973,UL9540and CE-EMC

Application Scenarios

Commercial and Industrial Load Management:

This energy storage system is an ideal choice for commercial and industrial facilities aiming to reduce energy costs and improve operational efficiency. It supports **peak shaving** and **demand charge reduction**, enabling businesses to manage electricity bills effectively by storing energy during off-peak hours and discharging it during peak demand periods. Its compact design and quiet operation (**≤75dB**) ensure minimal disruption, making it an excellent fit for urban installations.

Advanced Microgrid Integration:

The system's high performance and advanced connectivity options (**Ethernet/RS485**) make it a perfect solution for microgrid applications. Its **fast switching time (<100ms)** ensures seamless integration with renewable energy sources like solar and wind, stabilizing grid performance and ensuring energy availability in remote or off-grid areas. The system's **active liquid cooling** and **fire safety features (NOVEC1230/aerosol)** provide enhanced reliability and safety, even in extreme environments.

With its innovative features and robust design, the **233.96kWh/100kW Energy Storage System** sets a new benchmark in efficient, reliable, and scalable energy storage solutions, catering to the growing demand for sustainable and intelligent energy management.

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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