



## 100kW/215kWh Energy Storage System The Ultimate Solution for Your Energy Needs

### Our Product Introduction

#### Basic Information

- Place of Origin: China
- Brand Name: SHEL
- Certification: UN38.3, IEC62619, UL1973, UL9540 and CE-EMC
- Model Number: E215WS
- Minimum Order Quantity: 1 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T
- Supply Ability: consult online



All-in-one Air-cooled ESS Cabinet -E215WS

#### Product Specification

- Cell Type: LFP 280Ah
- Battery System: 215kWh/1P240S
- Voltage Range: 672~864Vdc
- Rated Power: 100kW
- Max. Power: 110kW
- Cycle Life: ≥8,000 Times
- Highlight: **215kwh lithium battery storage ,  
215kwh commercial energy solutions ,  
280ah lithium battery storage**

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## Product Description

### 100kW/215kWh Energy Storage System The Ultimate Solution for Your Energy Needs

The all-in-one air-cooled ESS cabinet integrates long-life battery, efficient balancing BMS, high-performance PCS, active safety system, smart distribution and HVAC into one cabinet, enabling long-term operation with safety, stability and reliability. Through AC side parallel connection, it achieves agile deployment of ESS power station with flexible capacity expansion.

#### Product Description

DC Side	
Cell Type	LFP 280Ah
PACK	17.92kWh/1P20S
Battery System	215kWh/1P240S
Voltage Range	672~864Vdc
Rated Voltage	768Vdc
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	
Efficiency	≥90%
Charge/Discharge Rate	0.5P
DoD	95%(25±2°C)
Cycle Life	≥8,000 times
Switching Time	<100ms
Connectivity	Ethernet/RS485
Ingress Rating	IP55
Cooling	Forced air cooling
Operating Temperature	-25°C~55°C
Humidity	0-95%RH.non-condensing
Noise	80dB
Altitude	≤2,000m (derating above 2,000m)
Fire Safety	Aerosol
Dimensions(W*D*H)	1,250*1,300*2,400(mm)
Weight	2,500kg
Compliance	UN38.3,IEC62619,UL1973,UL9540 and CE-EMC

The **100kW/215kWh Energy Storage System** is an innovative solution designed for medium-scale energy storage needs, combining cutting-edge technology with exceptional performance. Built with high-capacity **LFP (Lithium Iron Phosphate) 280Ah cells**, the system features a robust battery pack configuration of **17.92kWh/1P20S** and a total battery system capacity of **215kWh/1P240S**. The system operates within a voltage range of **672~864Vdc**, ensuring stability and efficiency. With a rated power output of **100kW** and a maximum power of **110kW**, this system provides reliable energy storage and delivery for various applications.

Key features include a high **cycle life of ≥8,000 times**, a **Depth of Discharge (DoD) of 95%**, and a rapid **switching time of <100ms**, ensuring seamless energy supply and demand balancing. The system is designed for efficiency, achieving a charge/discharge rate of **0.5P** and an operational efficiency of **≥90%**. Encased in an **IP55-rated enclosure** with forced air cooling, it can operate in extreme temperatures from **-25°C to 55°C**, making it suitable for harsh environments. With certifications including **UN38.3, IEC62619, UL1973, UL9540, and CE-EMC**, the system meets global safety and performance standards.

## Features



### Economical and Efficient

Conversion efficiency over 90%,  
DoD over 95%.



### Safe & Reliable

IP55 protection level, optimized ventilation design,  
cells temperature difference within 5°C.



### Compact

1.6m<sup>2</sup> footprint only,  
easy transportation & fast installation.



### Flexible Expansion

Modular design, simplified parallel expansion,  
fast expansion.



### Self-developed

Self-developed PACK, PCS, BMS and EMS with good  
product compatibility.



### Smart O&M

Diversified O&M access, both on APP & Cloud.

## Application Scenarios

### Commercial and Industrial Energy Management:

The 100kW/215kWh system is ideal for commercial and industrial facilities looking to optimize energy usage and reduce costs. It supports **peak shaving**, ensuring reduced energy bills during high-demand periods, and **load leveling**, stabilizing energy consumption patterns. With its high power factor range (-1 lagging to 1 leading) and **nominal voltage of 400Vac**, the system integrates seamlessly with existing industrial power infrastructure, offering reliable backup power during outages or peak loads.

### Renewable Energy Integration and Microgrid Applications:

Designed to complement renewable energy systems, this energy storage solution can store surplus power from solar or wind sources and discharge it during low production periods, enhancing renewable energy utilization. Its **fast switching time (<100ms)** and **Ethernet/RS485 connectivity** allow seamless integration into microgrid setups. The system's robust design and compliance with international standards ensure safety and reliability, making it an excellent choice for remote or off-grid installations seeking sustainable energy independence.

This versatile energy storage solution combines high performance, durability, and adaptability to meet the growing demands of modern energy management, providing a reliable and efficient system for a wide range of applications.

## 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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