



Grid Stabilization BESS Battery Energy Storage System With Modbus Communication Protocol

Our Product Introduction

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Basic Information

- Brand Name: QIYUAN
- Certification: UN38.3, IEC
- Model Number: EST100KW-215KWH
- Minimum Order Quantity: 1
- Packaging Details: Container
- Supply Ability: 10 Units/Month



Product Specification

- Warranty: 5 Years
- Weight: Varies Depending On Model
- Cycle Life: Up To 6,000 Cycles
- Dimensions: Varies Depending On Model
- Ess Container: 20ft
- Voltage: Varies Depending On Model
- Certifications: CE, UL, TUV
- Efficiency: Up To 98%
- Highlight: **Grid Stabilization bess battery, Modbus Communication Protocol bess system**

Product Description

Product Description:

This series of products is a special line designed by our company for a variety of inverters, DC loads, and DC power storage systems. The products are equipped with safe and dependable LiFePO₄ batteries that offer excellent safety and a long lifespan. The unique design of this series incorporates a two-tier architecture, where cells, modules, and systems work together to create a comprehensive communication and management system. Additionally, the products feature a parallel two-tier architecture to enhance performance. One of the key highlights of this series is its advanced functionalities, including remote data acquisition, analysis, control, alarm systems, and protection mechanisms. These features provide enhanced convenience and reliability for users.

Features:

Lithium iron phosphate batteries conform to the CE standard. They are designed with product safety features such as no fire occurrence after thermal runaway and an integrated module-level fire protection system. These batteries come equipped with Level 3 fire protection and have a direct parallel connection between clusters. When using 3 or more clusters in parallel, they incorporate a fault exit mechanism for added safety. For convenient management, these batteries offer remote monitoring and maintenance functions. Their versatile design allows them to be suitable for both indoor and outdoor applications, providing flexible and efficient power storage solutions.

Applications:

These products are compatible with a range of popular hybrid inverters. They are also suitable for use with DC loads and energy storage converters. Additionally, they can be utilized with inverters and for special battery applications.

Customization:

Product Customization Services for the BESS Battery Energy Storage System:

Brand Name: QIYUAN

Model Number: EST 100KW-215KWH

Place Of Origin: China

Certification: UN38.3, IEC

Minimum Order Quantity: 1

Packaging Details: Container

Supply Ability: 10 Units/Month

Application: Renewable Energy Integration, Grid Stabilization, Backup Power

Dimensions: Varies Depending On Model

Cycle Life: Up To 6,000 Cycles

Weight: Varies Depending On Model

Certifications: CE, UL, TUV

Model	EST050512-100NP	EST100512-200NP	EST160512-200NP	EST241768-200NP
Battey parameters				
Rated Voltage	512VDC	512VDC	512VDC	768VDC
Capacity	51KWH	102KWH	160KWH	241KWH
Charging voltage	552~560VDC	552~560VDC	552~560VDC	828~840VDC
Discharge voltage	448~576VDC	448~576VDC	448~576VDC	672~864VDC
Max charging current	100A	150A	150A	150A
Max discharging current	120A	200A	200A	200A
Battery cycles	90%			
System parameters				
Working temperature	-0~40°C(derate above 440°C)			
Storage temperature	0~40°C			
Humidity	0~95% no condensation			
Control mode	EMS and remote control			
Cooling	Natural air			
Fire protection system	Module-level aerosol			
System protection	With an emergency power-off protection function			
Installation / IP level	Indoor / IP20			
Communication	Ethernet /CAN /RS485			
Altitude	2000m,derate above 2000m			
Dimensions	600*1000*2000	1100*1000*2000		1100*1200*2300
Weight	1100KG	1220KG	2650KG	2930KG
Certification	UN38.3			
Standards	Meets IEC62619 ICE61000			



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