



Residential Energy Storage System —Battery Pack Series

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CONTENTS

ONE

About JNTech
.....03

TWO

Global Sales Network
.....05

THREE

Residential Energy Storage System
.....07

FOUR

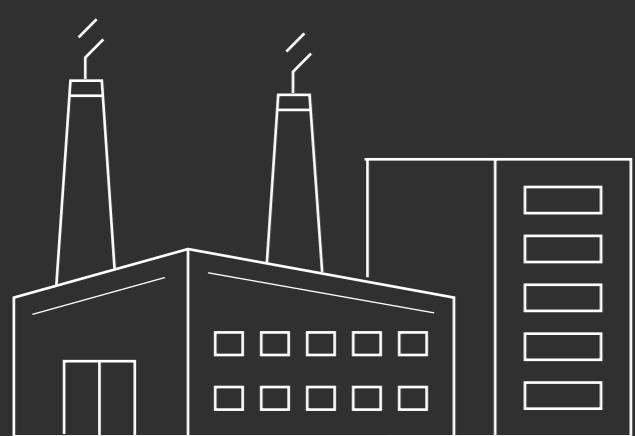
Products and Specifications
.....09

ABOUT JNTECH

JNTech is a global leader in advanced micro-grid solutions, committed to providing reliable and sustainable energy systems that address the unique challenges of diverse regions worldwide. Since our founding in 2006, we have focused on providing stable, affordable, and sustainable power through green energy for more people. To achieve this, we have developed a diverse portfolio of solutions that can adapt to different markets and needs. Currently, our products are sold in over 100 countries and regions.

As a leading manufacturer and provider of solar and new energy products, JNTech specializes in innovative technologies to meet a wide range of energy requirements. Our solutions include home energy storage systems, solar water pumping systems, solar oil extraction systems, solar mining systems, solar irrigation systems, electric vehicle charging systems, and other micro-grid solutions. These solutions incorporate both our proprietary products and those from other providers, ensuring comprehensive support for agriculture, remote power, and carbon footprint reduction.

With extensive experience and technical expertise in photovoltaic micro-grid projects, JNTech has established strong partnerships with organizations such as the World Bank, United Nations, IBRD, FAO, and various NGOs. These collaborations underscore our commitment to advancing sustainable energy solutions on a global scale. We believe that the widespread adoption of clean energy will enhance convenience and development opportunities for communities worldwide.



Qualifications and Honors

- National Standard Drafter
- United Nation Global Marketplace Supplier
- Specialized and New Enterprise
- National High-Tech Enterprise
- National Innovative SME
- Anhui Province Specialized in Special New Enterprises
- CE, TUV, ISO9001, ISO14001, and OHSAS18001

Certifications

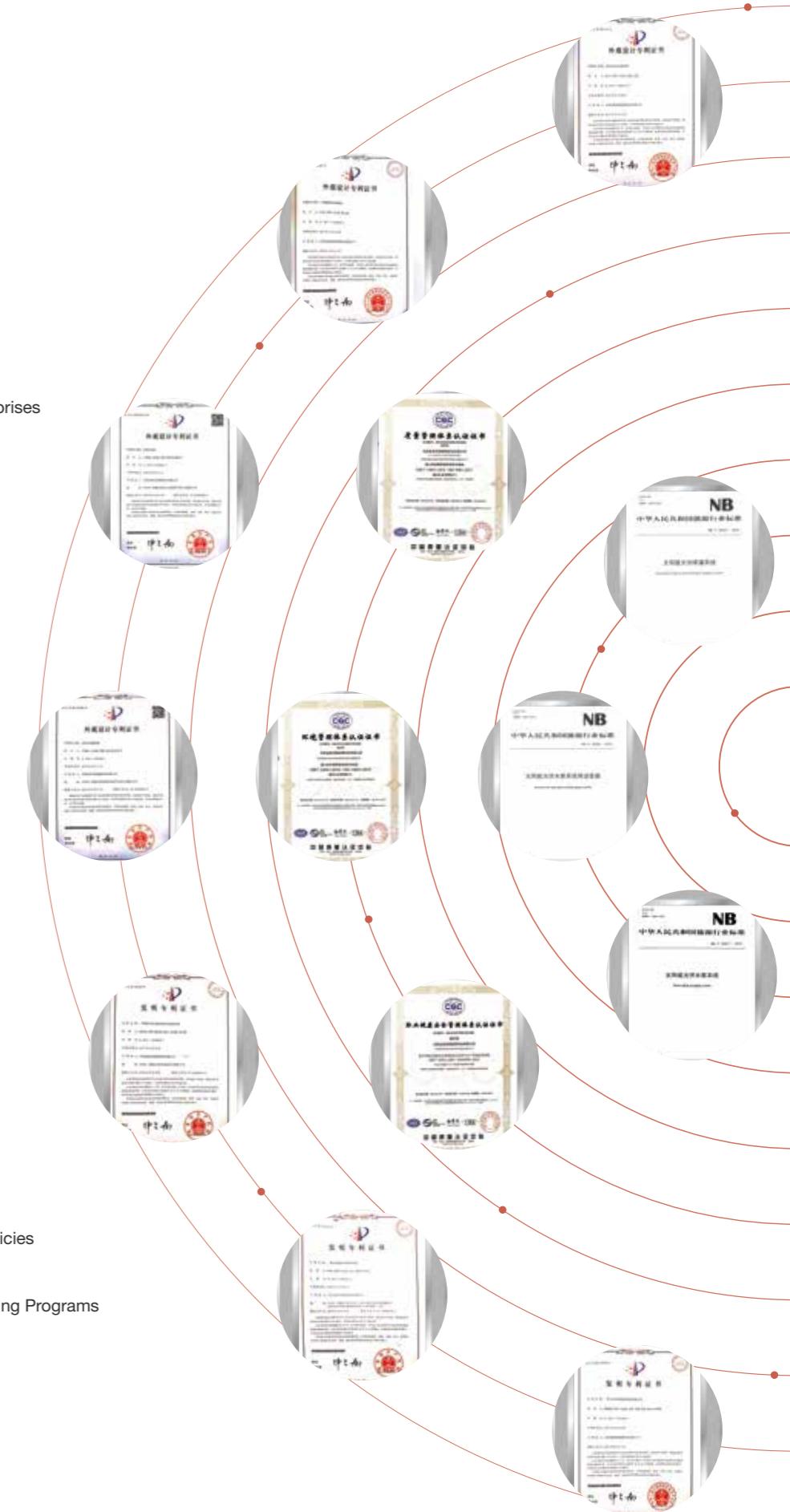
Service

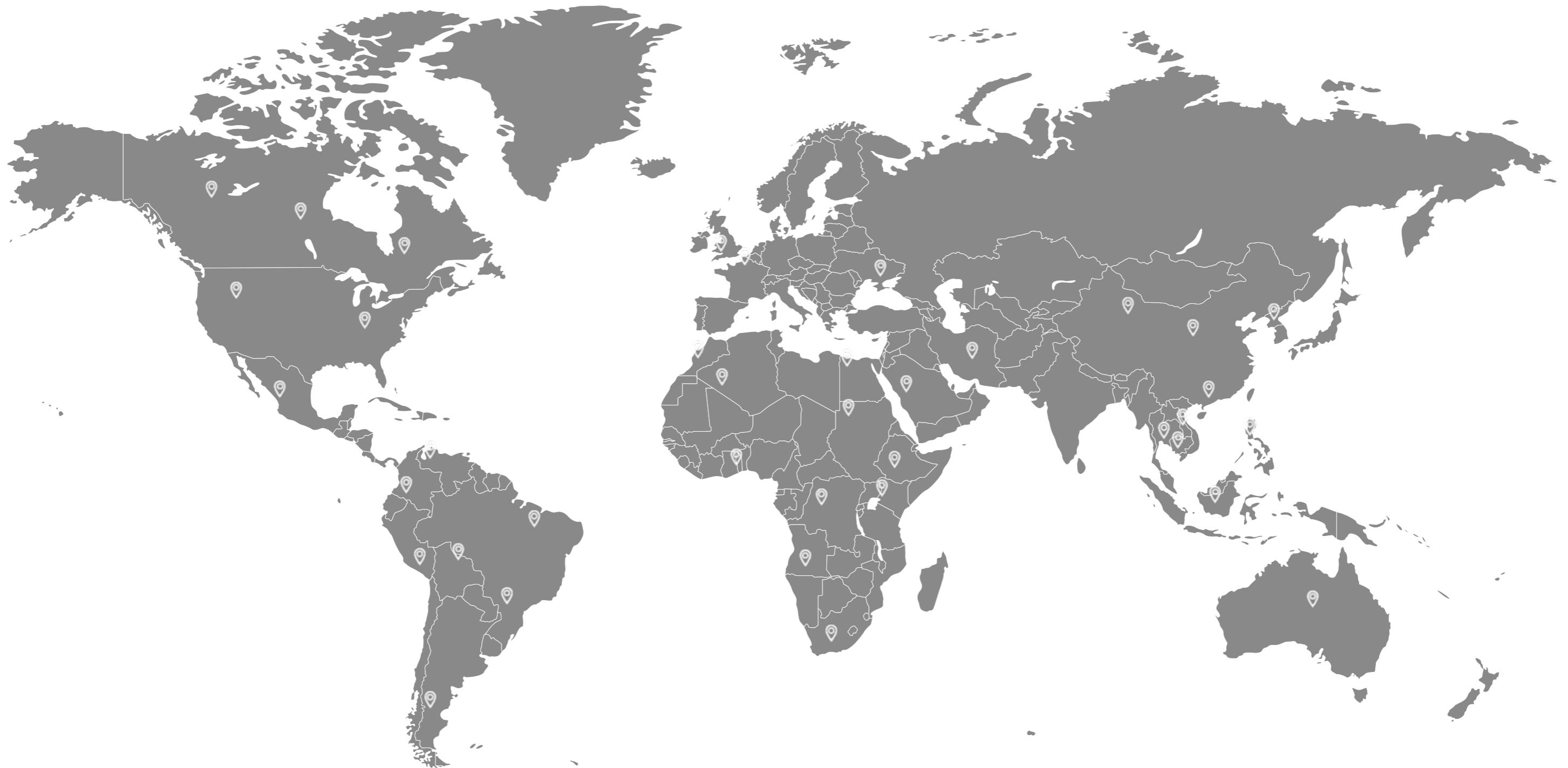
Pre-sales

- Investment Consultation
- Site Selection Assistance
- Customized Design Solutions
- Site Construction Support
- Operations and Maintenance Planning

After-sales

- ▶ Standardization of Workflow, Operations, and Policies
- ▶ Technical Services, Marketing Support, and Training Programs
- ▶ Collaborative Platform for Technical Exchanges
- ▶ Creating Value through Win-Win Cooperation
- ▶ 24/7 Online Support and Service





GLOBAL SALES NETWORK

15+

Years of Experience
in Solar Industry

40%+

R&D Employees

100+

Countries and Regions

10,000+

Global Clients

1,000,000+

Products Sold

RESIDENTIAL ENERGY STORAGE SYSTEM



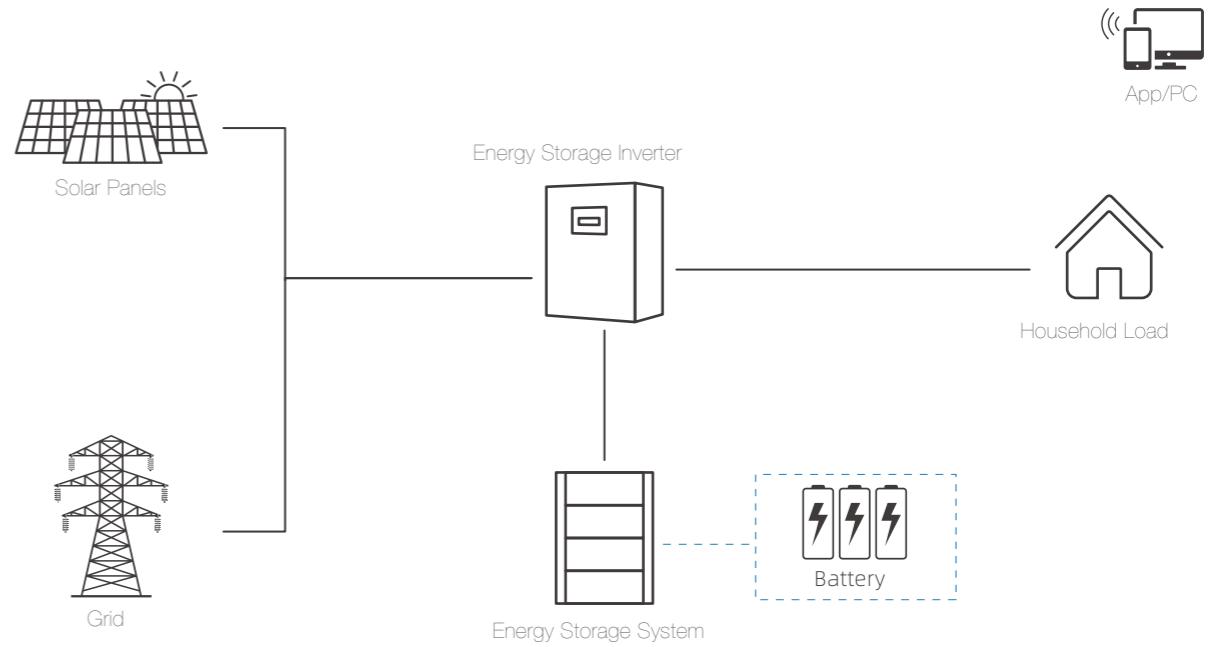
Overview of the Residential Energy Storage System

JNTech's Residential Energy Storage System is a cutting-edge solution designed to meet the growing demand for sustainable, stable, and reliable home energy management. This system integrates advanced battery technology with intelligent energy management software, offering homeowners the ability to store excess solar energy generated during the day and use it when needed, ensuring a stable and uninterrupted power supply while maximizing energy efficiency.

Key benefits:

- **Stable Power Supply:**
The system ensures continuous, reliable power even during grid outages or instability, offering peace of mind for homeowners.
- **Energy Independence:**
By storing excess energy, homeowners can reduce their reliance on the grid, particularly during peak hours or in the event of power disruptions.
- **Cost Savings:**
The system allows users to optimize energy usage by storing cheaper, off-peak electricity and utilizing it during peak periods, significantly lowering energy bills.
- **Eco-Friendly:**
By maximizing the use of solar energy and minimizing dependence on fossil fuels, the system helps reduce the household's carbon footprint.
- **Scalable Design:**
The modular architecture of the system allows it to be tailored to the specific energy needs of any household, providing flexible capacity options for different usage scenarios.
- **Smart Energy Management:**
Integrated with advanced energy monitoring and management software, the system enables real-time data tracking and remote control, giving users full visibility and control over their energy usage.

System Diagram



PRODUCTS AND SPECIFICATIONS

ENERGY STORAGE PRODUCTS LIST

Battery Module — Rack Design



Model
JNB048100-H-V3
5.12kWh Lithium Battery
(Rack Design)



Model
JNB048100-S-V1
5.12kWh Lithium Battery
(Rack Design)

Low-Voltage Mobile Batteries



Model
JNB051200-P
10.496kWh Lithium Battery
(Mobile Design)



Model
JNB051280-P
14.336kWh Lithium Battery
(Mobile Design)

Wall-Mounted Battery



Model
JNB025100-W
2.56kWh Lithium Battery



Model
JNB051100-W
5.12 kWh Lithium Battery

Replace Lead with Lithium



Model
JNB012100-Y
1.28kWh
Lithium Battery



Model
JNB012205-Y
2.624kWh
Lithium Battery



Model
JNB051200-W
10.24 kWh Lithium Battery



Model
JNB012280-Y
3.584kWh
Lithium Battery



Features:

- Uses lithium iron phosphate battery for increased safety and prolonged cycle life.
- Offers customized solutions for residential, commercial, and industrial energy storage systems.
- Advanced BMS with three-level protection for comprehensive security.
- Low-voltage design to meet safety and reliability requirements for household use.
- Modular design with automatic operation capabilities.
- Scales easily by connecting up to 16 units in parallel.

MODEL	JNB048100-H-V3	JNB048100-S-V1
Rated capacity	100Ah	
Rated voltage	51.2V	
Rated energy	5.12kWh	
Battery type	LiFePO4	
Max. continuous charge current	100A (1C)	
Max. continuous discharge current	100A (1C)	
Voltage range	40 ~ 60Vdc	
Operating temp	Charge 0~45°C, discharge -25~55°C	
Storage temperature	-20~60°C	
Size (W*D*Hmm)	490*580*162mm	485*600*167mm
Weight (Kg)	50Kg	48Kg
Cooling method	Natural air cooling	Forced cooling
Protection level	IP30	IP21
Functional protection	Undervoltage, overvoltage, overcurrent, temperature, short circuit	
Installation method	Rack insert	
Cycle life	≥6000(80%DOD 25°C 0.5C/0.5C)	
Interface	RS485/CAN	
Elevation	≤3000m	



Features:

- Adopt lithium iron phosphate battery, which is highly safe and has a long charge and discharge cycle life.
- Built-in advanced BMS, three-level battery management system protection, and perfect protection function.
- Modular design supports automated operation.
- Can provide customized products for household energy storage, industrial and commercial energy storage.

MODEL	JNB025100-W
Rated capacity	100Ah
Rated voltage	25.6V
Rated energy	2.56kWh
Battery type	LiFePO4
Max. continuous charge current	100A(1C)
Max. continuous discharge current	100A(1C)
Voltage range	21.6V~29.2V
Operating temp	Charge0~50°C, discharge-15~55°C, storage-20°C~55°C
Size (W*D*Hmm)	458*134*410mm
Cooling method	Natural air cooling
Weight(Kg)	29Kg
Communication interface	RS485/CAN
Protection level	IP30
Function protection	Undervoltage, overvoltage, overcurrent, temperature, short circuit
Installation method	Wall Mounted
Cycle life	≥6000(80%DOD 25°C 0.5C/0.5C)
Elevation	≤3000m



Features:

- Adopt lithium iron phosphate battery, which is highly safe and has a long charge and discharge cycle life.
- Built-in advanced BMS, three-level battery management system protection, and perfect protection function.
- Modular design supports automated operation.
- Can provide customized products for household energy storage, industrial and commercial energy storage.

MODEL	JNB051100-W
Rated capacity	100Ah
Rated voltage	51.2V
Rated energy	5.12kWh
Battery type	LiFePO4
Max. continuous charge current	100A(1C)
Max. continuous discharge current	100A(1C)
Voltage range	43.2V~58.4V
Operating temp	Charge0~50°C, discharge-15~55°C, storage-20°C~55
Size (W*D*Hmm)	473*134*595mm
Cooling method	Natural air cooling
Weight(Kg)	49Kg
Communication interface	RS485/CAN
Protection level	IP30
Function protection	Undervoltage, overvoltage, overcurrent, temperature, short circuit
Installation method	Wall Mounted
Cycle life	≥6000(80%DOD 25°C 0.5C/0.5C)
Elevation	≤3000m



Features:

- Adopt lithium iron phosphate battery, which is highly safe and has a long charge and discharge cycle life.
- Built-in advanced BMS, three-level battery management system protection, and perfect protection function.
- Modular design supports automated operation.
- Can provide customized products for household energy storage, industrial and commercial energy storage.

MODEL	JNB051200-W
Rated capacity	200Ah
Rated voltage	51.2V
Rated energy	10.24kWh
Battery type	LiFePO4
Max. continuous charge current	100A(0.5C)
Max. continuous discharge current	100A(0.5C)
Voltage range	43.2V~58.4V
Operating temp	Charge0~50℃, discharge-15~55℃, storage-20℃~55
Size (W*D*Hmm)	595*192*804mm
Cooling method	Natural air cooling
Weight(Kg)	92Kg
Communication interface	RS485/CAN
Protection level	IP30
Function protection	Undervoltage, overvoltage, overcurrent, temperature, short circuit
Installation method	Wall Mounted
Cycle life	≥6000(80%DOD 25℃ 0.5C/0.5C)
Elevation	≤3000m



Features:

- Adopt lithium iron phosphate battery, which is highly safe and has a long charge and discharge cycle life.
- Built-in advanced BMS, three-level battery management system protection, and perfect protection function.
- Modular design supports automated operation.
- Can provide customized products for household energy storage, industrial and commercial energy storage.

MODEL	JNB051200-P	JNB051280-P
Rated capacity	205Ah	280Ah
Rated voltage	51.2V	
Rated energy	10.496kWh	14.336kWh
Battery type	LiFePO4	
Max. continuous charge current	100A(0.5C)	100A(0.35C)
Max. continuous discharge current	100A(0.5C)	100A(0.35C)
Voltage range	43.2V~58.4V	
Operating temp	Charge0~50°C, discharge-15~55°C, storage-20°C~55°C	
Size (W*D*Hmm)	660*251*600mm	800*251*610mm
Cooling method	Natural air cooling	
Weight(Kg)	93Kg	120Kg
Communication interface	RS485/CAN	
Protection level	IP30	
Function protection	Undervoltage, overvoltage, overcurrent, temperature, short circuit	
Installation method	Mobile Power	
Cycle life	≥6000(80%DOD 25°C 0.5C/0.5C)	
Elevation	≤3000m	



Features:

- Uses lithium iron phosphate batteries, offering high safety and long cycle life.
- Equipped with an advanced BMS and a three-tier battery management system for comprehensive protection.
- Modular design, supporting automated operations.
- Customizable products available for home energy storage and industrial/commercial energy storage systems.

MODEL	JNB012100-Y	JNB012205-Y	JNB012280-Y
Rated capacity	100Ah	205Ah	280Ah
Rated voltage	12.8V		
Rated energy	1.28kWh	2.624kWh	3.584kWh
Battery type	LiFePO4		
Max. continuous charge current	50A(0.5C)	50A(0.25C)	50A(0.18C)
Max. continuous discharge current	100A(1C)	100A(0.5C)	100A(0.35C)
Voltage range	10.8V ~ 14.6V		
Operating temp	Charge 0 ~ 50°C		
	Discharge -15 ~ 55°C		
	Storage -20°C ~ 55°C		
Size (W*D*Hmm)	332*176*226mm	345*190*272mm	345*190*272mm
Cooling method	Natural air cooling		
Weight(Kg)	10kg	22kg	28kg
Communication interface	/		
Protection level	IP67		
Function protection	Undervoltage, overvoltage, overcurrent, temperature, short circuit		
Installation method	/		
Cycle life	≥6000 (80%DOD 25°C 0.5C/0.5C)		
Elevation	≤3000m		