



User Manual

Rechargeable Lithium-ion Battery System

Cumulus Low-Voltage Series

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Notice

The content of this document may be updated from time to time due to product version upgrade or for other reasons. If not specifically agreed upon, the content of this document does not replace the safety precautions on the product label or in the user manual. All descriptions in this document should be used as user guidance only.

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1 Preface

This document mainly introduces the product information, installation and wiring, configuration and tuning, troubleshooting and maintenance contents of the battery system. Please read this manual carefully to understand the product safety information and familiarize yourself with the product's functions and features before installing and using the product. The document may be updated from time to time, please get the latest version of the document and more information about the product from the official website.

1.1 Applicable products

This document applies to products of the following models:

- JCL16

1.2 Applicable personnel

This document only applies to professionals who are familiar with local regulations, standards and electrical system, have been professionally trained and are familiar with this product.

1.3 Definition of symbols

For better use of this manual, the following symbols have been used in the manual to highlight relevant important information, so please read the symbols and descriptions carefully.

 Danger
Indicates a situation with a high potential danger which will result in death or serious injury if not avoided.
 Warning
Indicates a situation with a moderate potential danger which could result in death or serious injury if not avoided.
 Caution
Indicates a situation with a low potential danger which could result in moderate or minor injury to personnel if not avoided.
Notice
Emphasis and supplements to the contents, or tips or tricks for optimizing the use of the product and helping you solve a problem or saving your time.

1.4 Versions record

The latest version in the revision records contains update contents to all previous document versions.

V1.0 2025-09-02
Issued for the first time.

V2.0 2026-03-12
Revised version

V3.0 2026-03-30
Revised version

2 Safety precautions

The safety precaution information contained in this document must always be observed when operating the equipment.

Notice
The equipment has been designed and has passed test in accordance with strict safety regulations, but as electrical equipment, it is necessary to follow the relevant safety instructions before carrying out any operation on the equipment, as improper operation may result in serious injury or property damage.

2.1 General safety

Notice
• The contents of this document may be updated from time to time due to product version upgrades or for other reasons. Unless otherwise agreed, the contents of this document should not replace the safety precautions on the product label or in the user manual. All descriptions in this document are intended as a guideline for use only. • Please read this document carefully to understand the product and precautions before installing the equipment. • All operations of the equipment must be carried out by professional qualified electrical technicians who are familiar with the relevant standards and safety codes of the project location. • When operating the equipment, it is necessary to use insulated tools and wear personal protective equipment to ensure personal safety. In the case of contact with electronic devices, it is necessary to wear electrostatic glove, electrostatic bracelet, anti-static clothing, etc., to protect the equipment from electrostatic damage. Battery module is a sealed component with no access to cell components. Access to the cell components cannot be obtained without damaging the enclosure of the cell components or fixing devices of the enclosure of the cell components. Note: The intention is there is no maintenance required at cell component level or any on site repair or replacement at cell component level - for any of this type of activity the battery module is returned to manufacturer/service agent, and so prevent unsafe situations of large energy release and arflash issues. • Damage to equipment or injury to personnel caused by failure to install, use, or configure batteries in accordance with the requirements of this document is not covered in scope of the responsibility of the equipment manufacturer. For more product warranty information, please visit official website: WWW.JUNCESS.COM.

2.2 Battery Safety



Danger

- Before operating the equipment in the system, please make sure that the equipment is de-energized to avoid the risk of electric shock. Strictly observe all safety precautions in this manual and the safety signs on the equipment during operation of equipment.
- Inverter used in conjunction with battery need to be approved by the battery manufacturer, and a list of approved matching inverters and batteries is available on the official website.
- Do not disassemble, modify, or repair the battery or control box without official authorization from the equipment manufacturer, otherwise this may cause a risk of electric shock or cause damage to the equipment, and the resulting damage is not covered by scope of the equipment manufacturer's responsibility.
- Do not hit, pull, drag, crush or trample the equipment, and do not expose the battery to fire as there is a risk of the battery explosion.
- Do not place the battery in a high temperature environment, make sure that the battery is free from heat source or direct sunlight. When the ambient temperature exceeds 60°C, a fire may occur.
- Do not use the battery or control box if it is visibly defective, cracked, damaged or has other situations. Damaged battery may cause electrolyte leakage.
- To protect the battery pack and its components from damage during transportation, make sure the transportation personnel are professionally trained. Record the procedure during transportation and keep the equipment balanced to avoid falling.
- Battery equipment is heavy, please configure the corresponding personnel according to the weight of the equipment, so as to avoid personal injury due to the equipment weight exceeding the weight range that can be carried manually.
- If the battery fails to start, contact after-sales service center as soon as possible. Otherwise, the battery may be permanently damaged.
- Do not move the battery system while the external battery module is connected. If you need to replace the battery or add battery, please contact the after-sales service center.



Notice

- Ensure that the battery system is not damaged during transportation and storage.
- Transportation must be carried out by trained professionals and operations during the process must be recorded.
- Ensure that the equipment is placed securely rather than tilted; rollover of the equipment may result in equipment damage and personal injury.
- Cables used in high temperature environments may cause the insulation to deteriorate and break, the distance between the cable and the periphery of the heat generating device or heat source area should be at least 30mm.
- Cables of the same type should be tied together, and cables of different types should be placed at least 30mm apart, and it is prohibited to twist or cross-lay mutually.

Description of signs

	Potential hazards exist when operating the equipment. Take precautions when operating the equipment.		Keep equipment away from open flames or ignition sources.
	High voltage hazard. High voltage is present during equipment operation. Make sure that the equipment is disconnected from the power supply when operating the equipment.		Keep equipment away from areas accessible to children.
	Please use the equipment appropriately, there is a risk of explosion in extreme cases.		It is prohibited to use water to extinguish fire.
	The device contains corrosive electrolyte. Avoid contact with leaking electrolyte or volatile gases.		The equipment should not be disposed of as household waste, please dispose of the equipment according to local laws and regulations or send it back to the equipment manufacturer.
	Battery contains flammable material, beware of fire.		Recycling sign.
	Before operating the equipment, please read the product manual in detail.		CE certification sign.
	Wear personal protective equipment during installation, operation and maintenance.		Protective ground wire connection point.

2.3 Countermeasures for emergencies

Battery electrolyte leakage

If the battery module leaks electrolyte, avoid contact with the leaking liquid or gas. The electrolyte is corrosive and contact may cause skin irritation and chemical burns. If you inadvertently come into contact with the leaked substance, please take the following actions:

- **Inhalation:** evacuate from contaminated area and seek medical help immediately.
- **Eye contact:** flush with water for at least 15 minutes and seek medical help immediately.
- **Skin contact:** wash contact area thoroughly with soap and water and seek medical help immediately.
- **Ingestion:** induce vomiting and seek medical help immediately.

Fire

- When the temperature exceeds 150°C, there is a risk of battery fire, and toxic and harmful gases may be released when the battery catches fire.
- To avoid fire, make sure there is CO2, Novac 1230 or FM-200 fire extinguisher near the equipment.
- Do not use water or ABC dry powder extinguisher to extinguish fire. Firefighter must wear protective clothing and self-contained breathing apparatus.

3 Introduction of products

3.1 Brief introduction of products Functional overview

The battery system consists of battery module and BMS and is able to store and release electricity according to the requirements of the photo voltaic energy storage system of which the input and output ports are of DC.

The battery module is constructed with 16 lithium-ion cells in series, and has overcharge, discharge, over current, over temperature and short-circuits protection circuit.

The BMS is used to collect the status, performance, safety and management-related information of battery module feedback, communicate with the inverter matched with the customer, and send or receive data to achieve collaborative work and optimization.

System lock (or system lock function)

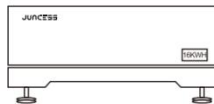
The Cumulus Low-Voltage system has a system lock function, when the battery system has over-voltage, over-current and over-temperature, the battery side circuit breaker will automatically trip, the system will stop running, and the system cannot be reset automatically.

In this case, the customer needs to contact the corresponding installer for processing.

Description of available electricity

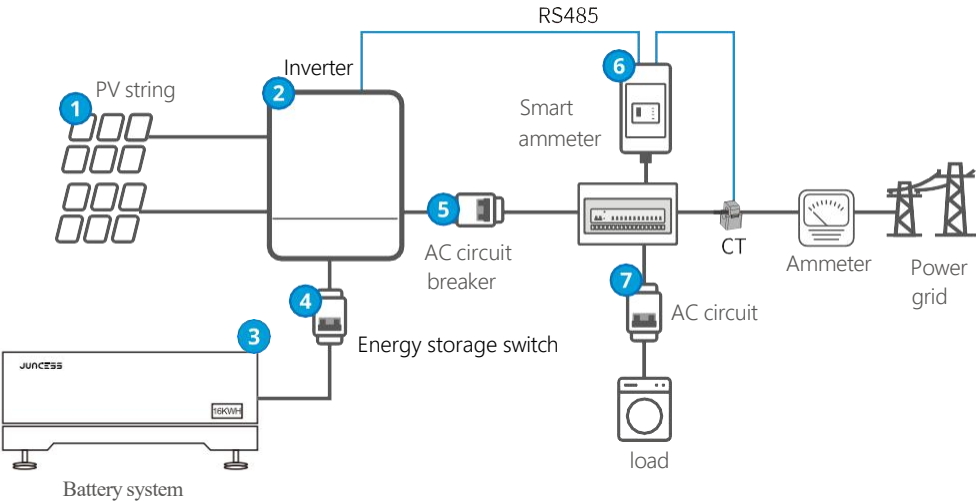
Notice

The battery system supports the expansion of available power, with a maximum of 16 battery modules available for power expansion. The expansion conditions must be strictly adhered to. For detailed information, you can contact your dealer or equipment manufacturer. If the expansion operation is not carried out as required, it may cause under-voltage, over-voltage or differential voltage faults in the battery system.



JCL16

3.2 Application scenarios



List of matched inverters

A list of inverters matched to the battery system is available through the official website: WWW.JUNCESS.COM.

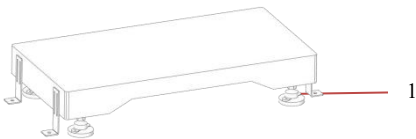
3.3 Appearance description

Battery system appearance



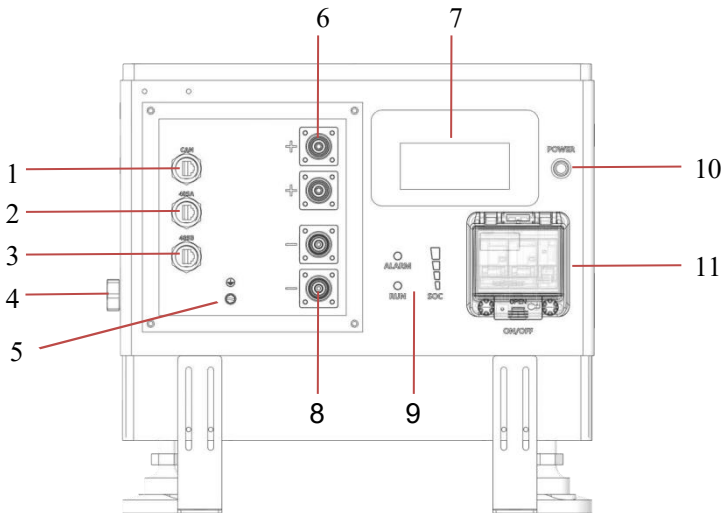
Serial number	Parts
1	Battery
2	Base

Base appearance



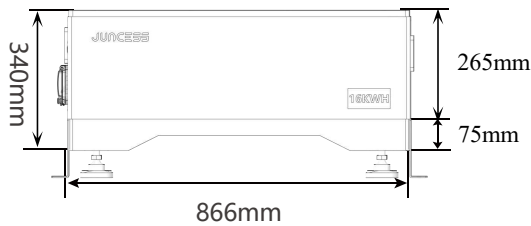
Serial number	Parts
1	Anchor Cup

Appearance description

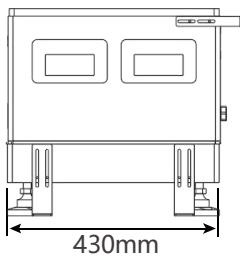
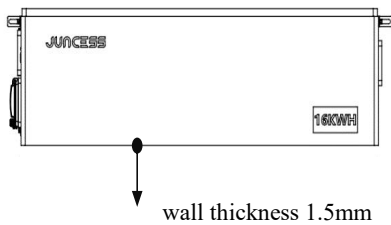


- | | | |
|--|-------------------------------------|-------------------------------------|
| 1. CAN/485 communication port
(BMS→PCS) | 2. 485A communication port | 3. 485B communication port |
| 4. Pressure relief valve | 5. Ground terminal | 6. Positive input /output terminals |
| 7. Handle | 8. Negative input /output terminals | 9. SOC indicator light |
| 10. Button switch | 11. Circuit breaker | |

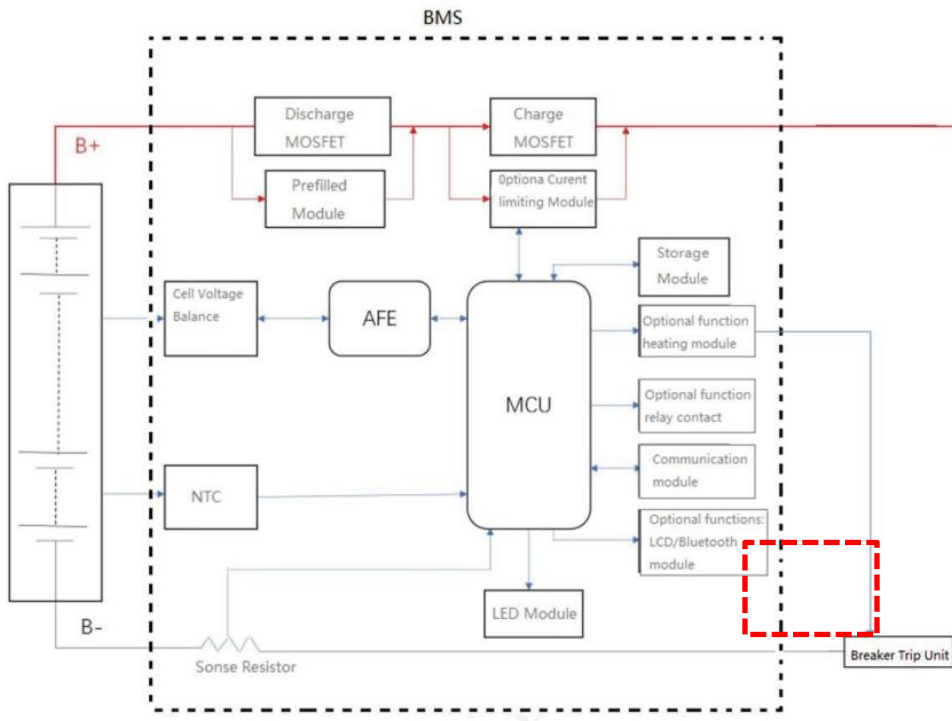
3.4 Dimension



Notice
• Product dimension tolerance is $\pm 3\text{mm}$.



3.5 Block diagram:



Circuit breakers in energy storage systems are key mechanical switchgear used to detect and protect electrical equipment from overloads, short circuits and other faults. They have short-circuit/overload protection functions and can ensure the safe and stable operation of the system.

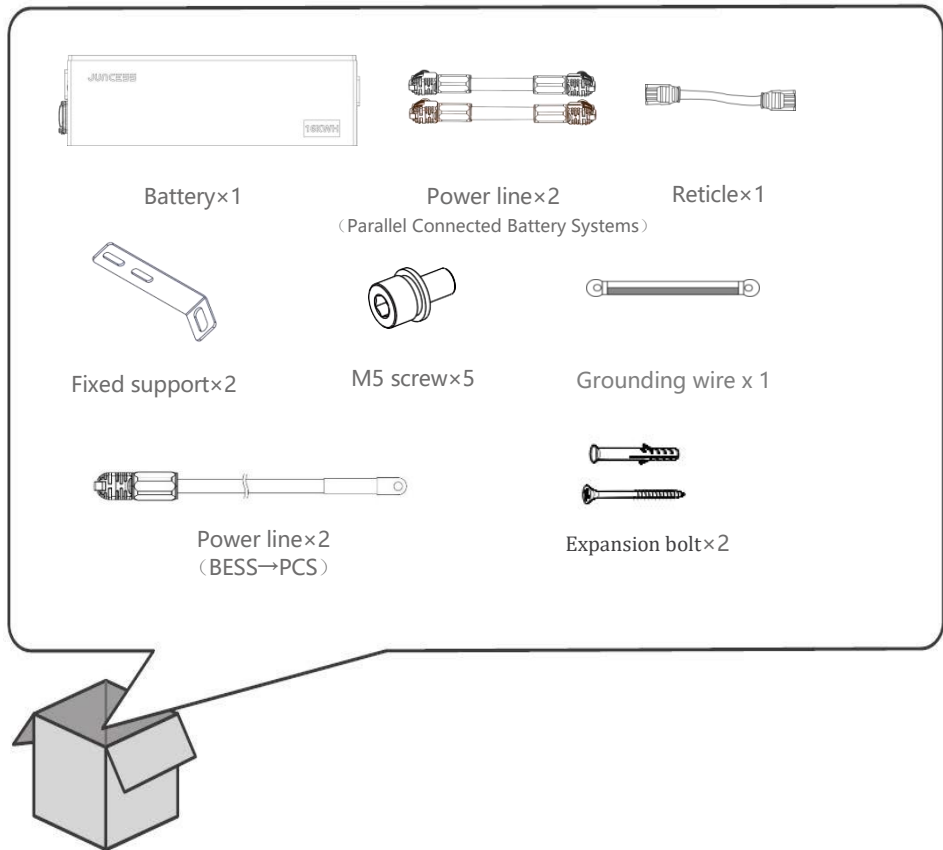
4 Equipment inspection and storage

4.1 Pre-signing inspection

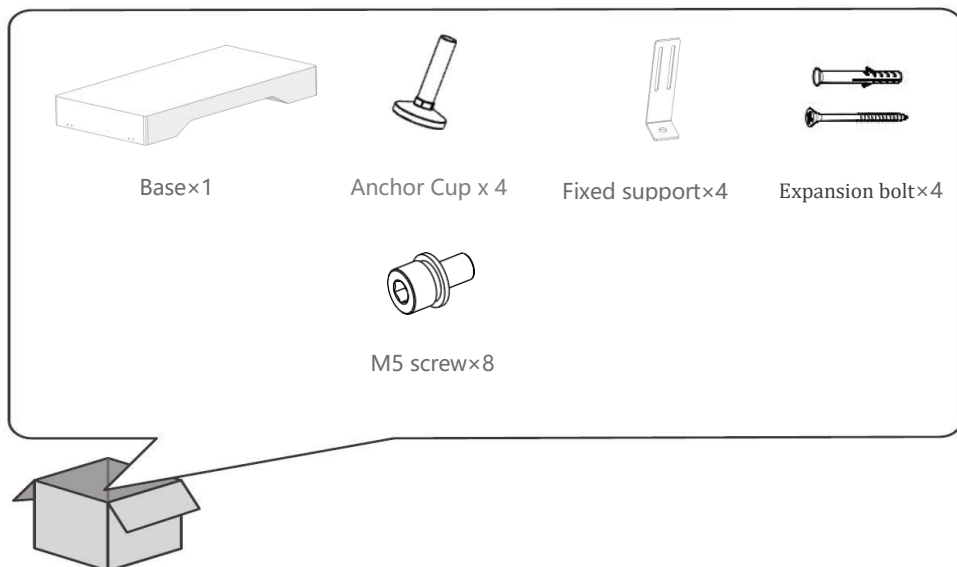
Before signing for acceptance of the product, please check the following contents in detail:

1. Check the outer package for damage such as deformation, open holes, cracks or other signs that may cause damage to the equipment inside the packing box, if there is any damage, do not open the package and contact your dealer.
2. Check whether the equipment model number is correct, in case of discrepancy, do not open the package and contact your dealer.
3. Check whether the type and quantity of delivered parts are correct and whether there is damage to the exterior. In case of damage, please contact your dealer.

4.2 Deliverables



Base



4.4 Equipment storage

If the equipment is not to be put into service immediately, please store it according to the following requirements:

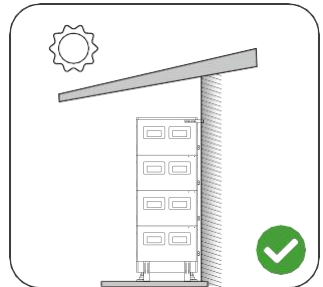
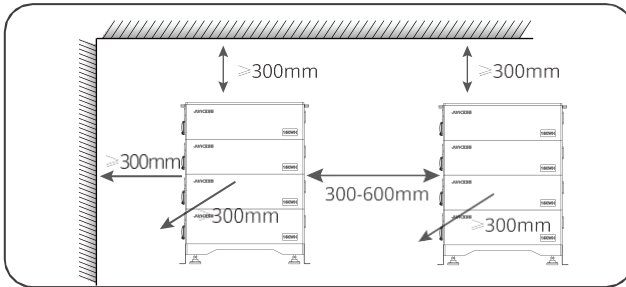
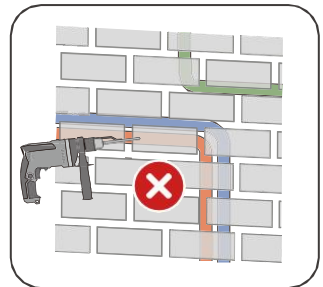
1. It is recommended to complete the installation of the equipment within 3 days after unpacking, if the equipment is not installed, the original packaging box should be used to repack the equipment for preservation.
2. Ensure that equipment is stacked at height and direction specified in the label instructions on the packing box.
3. Ensure that there is no risk of rollover when equipment is stacked.
4. Ensure that the equipment is stored at a location away from flammable, explosive or corrosive articles, etc.
5. Ensure that the equipment is stored in a cool place free from direct sunlight.
6. Ensure that the storage environment is clean, has suitable temperature and humidity range, and is free of condensation.
7. SOC range of battery: 25%~50% SOC, one charge/discharge cycle should be conducted for every 3 months of storage.
8. Storage temperature range: storage under -30~60°C for not more than 1 month; storage under 0~35°C for not more than 1 year.
9. Storage humidity range: 0~95%RH without condensation. It is not permitted to install when there is moisture condensation on the battery connector.

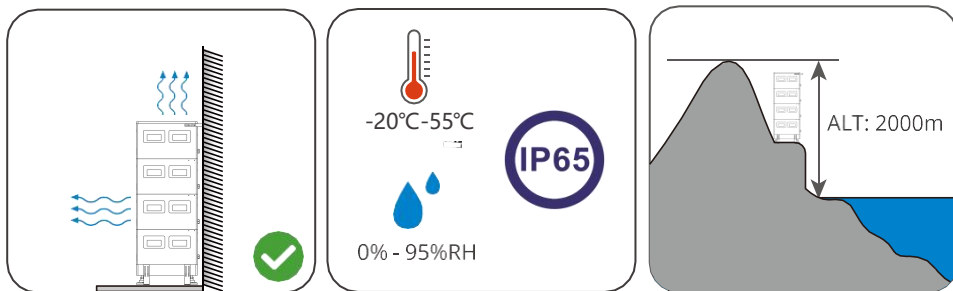
5 System installation

5.1 Installation requirements

Installation environmental requirements

1. The equipment must not be installed in flammable, explosive or corrosive environment.
2. Installation position should be out of the reach of children and should not be easily accessible. The surface of the equipment may be hot during operation, it is necessary to prevent burns.
3. The installation location should avoid water pipes, cables, etc. in the wall to avoid danger when drilling holes.
4. The installation environment should avoid sunshine, rain, snow, etc. It is recommended to be installed in a sheltered installation location, and a sunshade can be built if necessary.
5. Installation space should meet the requirements on equipment ventilation and heat dissipation and requirements on operation space.
6. The protection level of the equipment should meet the indoor and outdoor installation, and the temperature and humidity of the installation environment should be within the suitable range.
7. The equipment should be mounted at a height that is easy to operate and maintain, so that it is easy to view the equipment indicator and all labels and it is easy to operate the connection terminals.
8. The equipment should be installed at an altitude lower than the maximum working altitude of 2000m.
9. Keep away from strong magnetic field environment to avoid electromagnetic interference. If there is a radio station or a wireless communication device below 30MHz near the installation location, make sure that the distance between the battery and the wireless electromagnetic interference device is more than 30m.
10. The equipment should be kept away from heat source at least 1000mm.
11. The battery monitoring is achieved by the inverter.



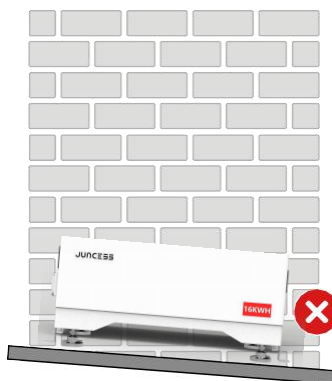
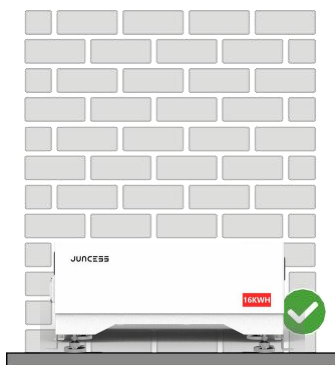


Installation carrier requirements

- The installation carrier must not be flammable material and must be fire resistant.
- Make sure that the mounting carrier is sturdy and reliable to carry the weight of the equipment.
- The battery system should be installed close to the wall with anti-tipping bracket to avoid tipping of the battery.

Installation angle requirements

- Ensure that the equipment is installed horizontally and is not tilted or inverted.



5.2 Installation of battery system

5.2.1 Handling of equipment



- When carrying out operations such as transportation, circulation and installation, it is required to meet the requirement so flaws and regulations and relevant standards of the country or region where the equipment is located.
- Before installation, it is necessary to carry the equipment to the installation location. To avoid personnel injury or equipment damage during the handling process, please pay attention to the following matters:
 1. Please configure the corresponding personnel according to the weight of the equipment so that the equipment will not exceed the weight range that can be handled manually and will not injure the personnel.
 2. Please wear safety gloves to avoid injury.
 3. Make sure the equipment is balanced during handling and avoid falling.

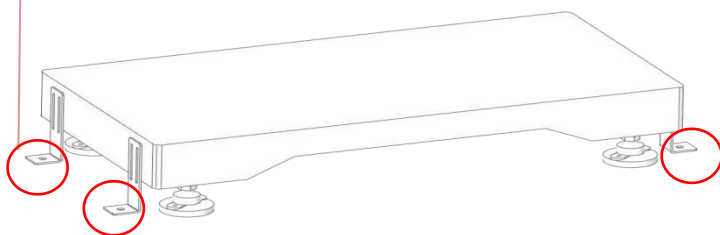
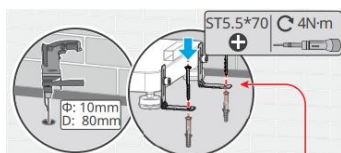
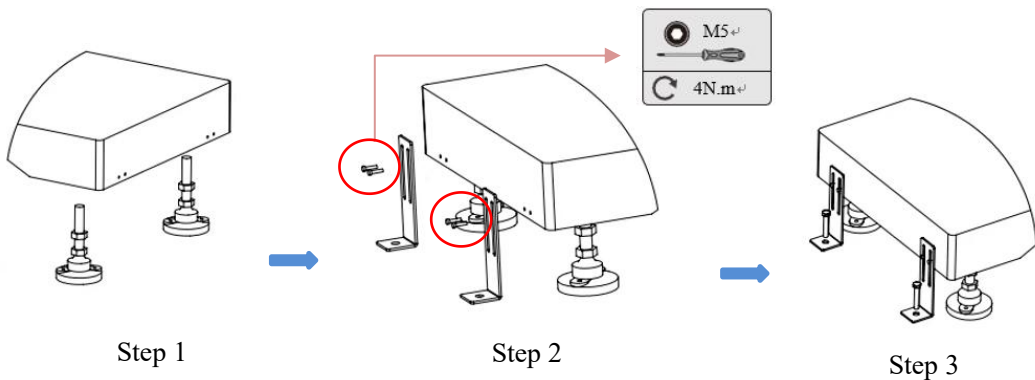
5.2.2 Installation of battery system

Note

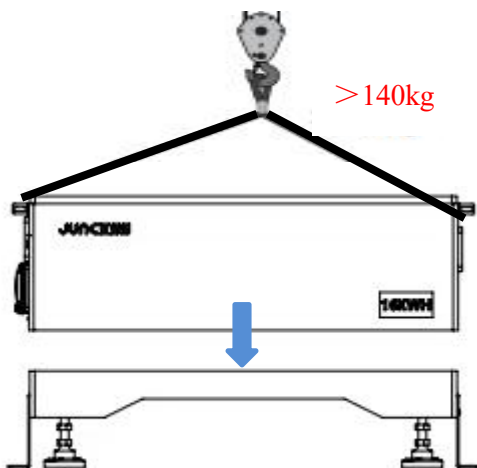
- Make sure the base is vertically and closely fitted to the floor.
- Make sure the base is placed against the wall.
- Make sure all batteries are placed against the wall.
- Make sure the upper holes are aligned with lower holes when placing the upper-layer battery.
- Make sure the battery bracket is arranged against the wall.
- An external double pole isolation device must be installed at the output port of each battery.

Installation of battery system

- Step 1:** Adjust the four anchor cup nuts to the same height, rotate them clockwise and insert them into the base;
- Step 2:** Install the fixed brackets on both sides and then place them on the flat ground. Use M5 screws to fix the bracket to the battery box. Adjust the position according to the distance from the wall. The recommended torque value is 4N·m.
- Step 3:** Place the base cling to the wall and mark the drilling positions. Then remove the base. Drill holes with the hammer drill.
- Step 4:** Screw the expansion bolts to fix the base. Ensure that the base is installed in the correct direction.
- Step 5:** Place the battery box on the base, making sure it is aligned up and down, and install the remaining battery modules according to the actual type of battery system selected.
- Step 6:** Stack up to 4 battery boxes.
- Step 7:** Remove the cover on the side, connect the connection cable between the boxes correctly, and then put the cover back.
- Step 8:** Fix the bracket to the wall with self-tapping screws and the installation is complete.
- Step 9:** Connect each battery pack in parallel through DC positive and negative cables
- * If the earth cable in the packing list is not long enough. Please prepare your own protective earth wire, which is $\geq 2.5\text{mm}^2$



Step 4



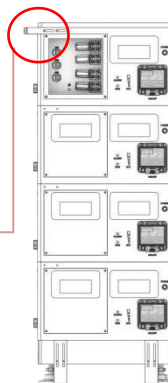
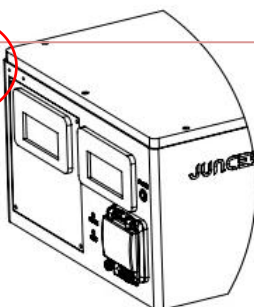
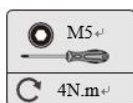
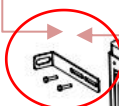
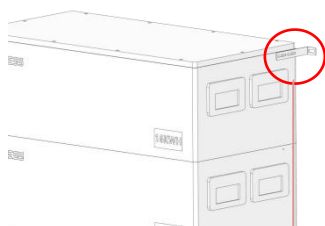
Step 5



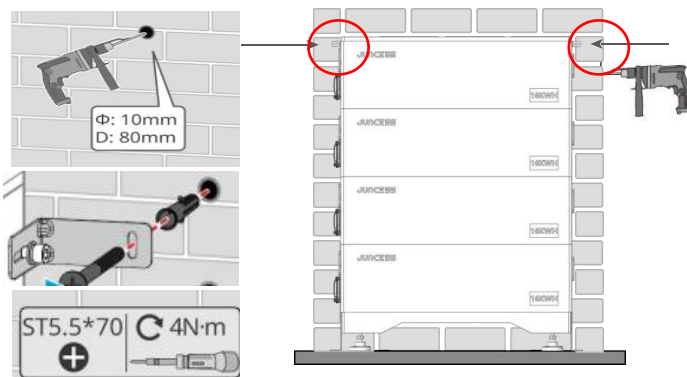
$n \leq 4$



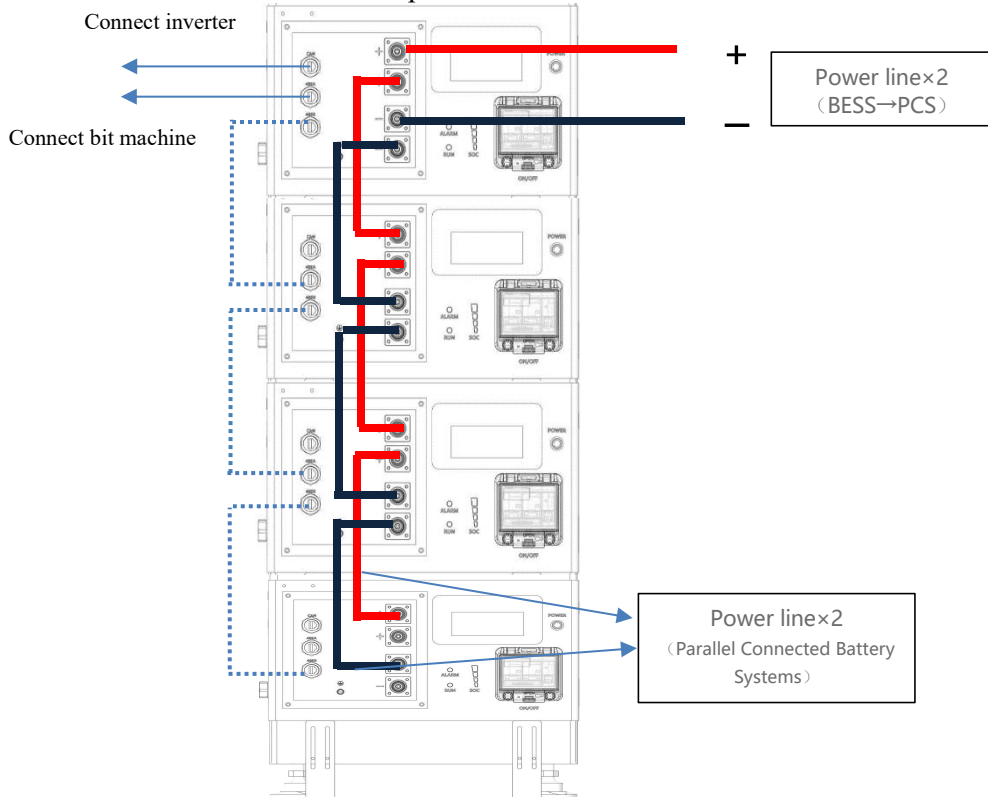
Step 6



Step 7



Step 8



Step 9

6 Electrical connection

6.1 Safety precautions



Danger

- Before operating the equipment in the system, make sure that the equipment is de-energized to avoid the risk of electric shock. Strictly observe all safety precautions in this manual and the safety signs on the equipment during operation.
- All operations, and specifications of cables and components used in the electrical connection process must comply with local laws and regulations.
- Cables of the same type should be tied together and arranged separately from different types of cables, and twisting or crossing are prohibited.
- When crimping the connection terminals, make sure that the conductor part of the cable is in sufficient contact with the connection terminals, and do not crimp the insulating sheath of the cable together with the connection terminals; otherwise, the equipment may not be able to operate, or the inverter terminal block may be damaged due to the heat generated after operation because of the unreliable connection.



Caution

To avoid burn, severe injury or death:

- Refer servicing to qualified service personnel.
- Connect only to dedicated circuits.
- Each circuit must be individually disconnected before servicing.
- Never disassemble this battery unit or remove covers.
- Do not puncture or impact this battery unit.
- In the event of accidental exposure, get medical help immediately.
- Keep out or reach of children.
- Keep battery dry.
- Do not flood with water.
- Do not expose to sparks or flame.
- Do not incinerate.

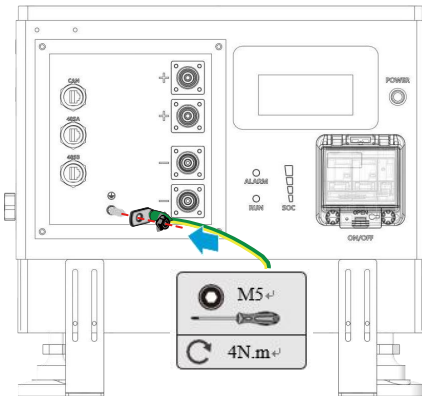
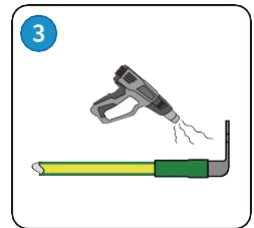
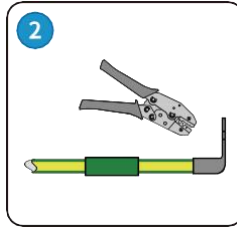
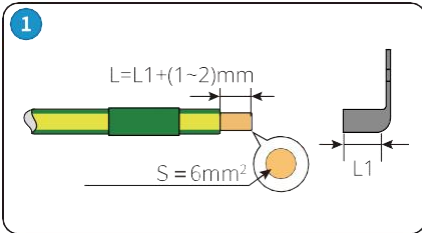
Notice

- When making electrical connection, please wear personal protective equipment such as safety shoes, protective gloves, and insulated gloves as required.
- Only specialized personnel are permitted to perform operations related to electrical connection.
- The cable colors shown in figures of this document are for reference only, and specific cable specifications are subject to the requirements of local regulations.

6.2 Connecting the protective earth wire

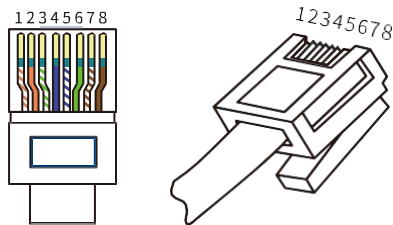
Notice

- When installing equipment, the protective earth wire must be installed first; when removing equipment, the protective earth wire must be removed last.
- The pull-out force after crimping connection should be greater than 400N.
- If the earth cable in the packing list is not long enough. Please prepare your own protective earth wire of recommended specifications:
 - Conductor cross-sectional area: 6mm^2



6.4 Communication line connection

Battery monitoring is mainly achieved through inverters
RJ45 crystal connector



Port definition

Items	Pins	Line color	Interface definition	Remarks
485A/B communication port RJ45 connector definition	1	Orange/white	485-B3	Connecting the battery parallel communication port
	2	Orange	485-A3	
	3	Green/white	GND	Grounding
	4	Blue	/	Reserved
	5	Blue/white	/	Reserved
	6	Green	GND	Grounding
	7	Brown/white	485-A3	Connecting the battery parallel communication port
	8	Brown	485-B3	

Items	Pins	Line color	Interface definition	Remarks
CAN/485 communication port (BMS→PCS) RJ45 connector definition	1	Orange/white	485-B	Connecting the battery parallel communication port
	2	Orange	485-A	
	3	Green/white	GND	Grounding
	4	Blue	CANH	Connecting the inverter communication port or battery parallel communication port
	5	Blue/white	CANL	
	6	Green	GND	Grounding
	7	Brown/white	485-A	Connecting the battery parallel communication port
	8	Brown	485-B	

7 System operation

7.1 Pre-energization inspection

When the battery system is energized, be sure to check the following contents to prevent system damage.

Serial number	Items to be checked
1	The equipment is firmly installed, the installation position is convenient for operation and maintenance, the installation space facilitates ventilation and heat dissipation, and the installation environment is clean and neat.
2	Protective ground wire, power wire, communication wire, and terminal resistors are properly and securely connected.
3	Cable ties meet wiring requirements, are well distributed, and are free from damage.
4	Unused ports are blocked.

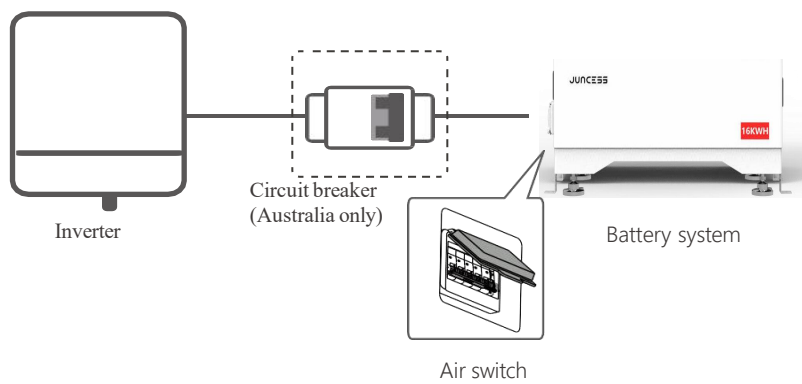
7.2 Battery system energization

NOTICE

The circuit breaker (Circuit Breaker 2) between the inverter and the battery needs to be installed in accordance with local laws and regulations.

Power On

- Step 1: Turn on the breaker between the inverter and the battery system.
- Step 2: Turn on the air switch of each battery module.
- Step 3: Press the power button 10s of each battery module.
- Step 4: Turn on the inverter in the system following the instructions in the user manual of the inverter





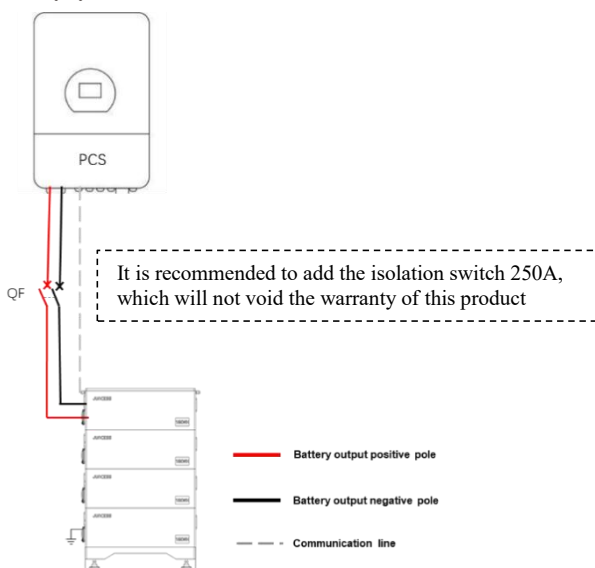
Power OFF

Step 1: Turn off the inverter in the system following the instructions in the user manual of the inverter.

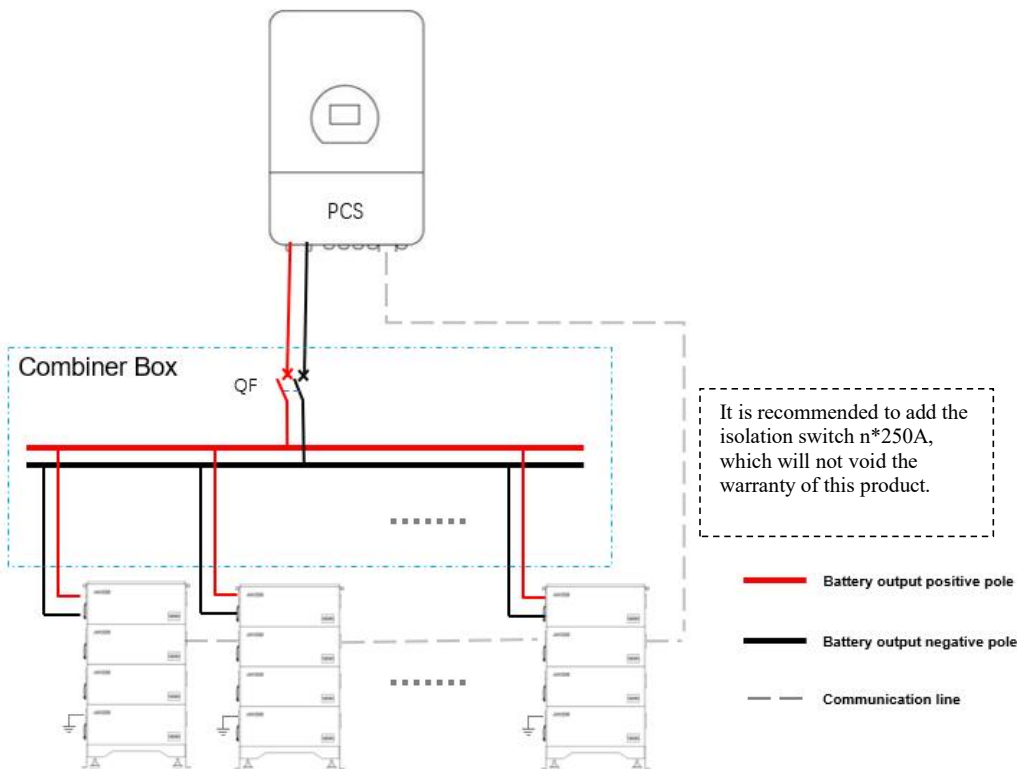
Step 2: Turn off the circuit breaker between the inverter and the battery system.

Step 3: Turn off the air switch of each battery system switch.

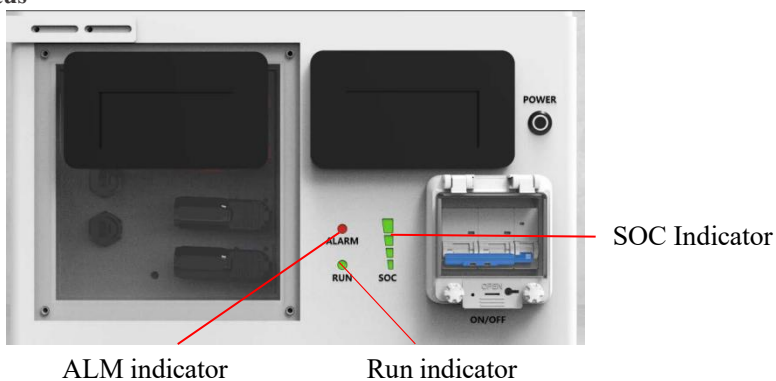
Schematic diagram of single battery system connection:



Schematic diagram of multi battery system connection:



7.3 Indicator status



7.3.1 Status indication

Items	Test criteria
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LED indicators	RUN indicator	1. Standby state, RUN indicator is constantly on; 2. During the charging process (charging current greater than 1A), RUN indicator is constantly on; 3. During the discharge process (discharge current greater than 1.6A), the RUN indicator flashes 3 (on for 0.5s, off for 1.5s).
	ALM indicator	1. After the alarm is activated, the ALM indicator flashes (on for 0.5s, off for 0.5s) 2. After protection is activated (except cell undervoltage protection, total-voltage undervoltage protection, cell overvoltage protection and total-voltage overvoltage protection), the ALM indicator is constantly on; 3. When there is no alarm and no protection, the ALM indicator turns off.
	Electric quantity indicator	1. In standby mode, the indicator light is on according to the battery.; 2. During the charging process, electric quantity indicators flash sequentially according to the state of charge: SOC 0~25, LED1 flashes; SOC 25~50, LED2 flashes; SOC 50~75, LED3 flashes; SOC ≥ 75 , LED4 flashes; 3. During the discharge process, the electric quantity indicators turn off sequentially according to the state of charge: SOC less than 75, LED4 turns off SOC less than 50, LED3 turns off; SOC less than 25, LED2 turns off. To undervoltage protection, LED1 turns off.

8 Maintenance

8.1 Battery system de-energization



Danger

- When operating or maintaining the battery system, please de-energize the battery system. Power operation of the equipment may result in damage to the equipment or a risk of electric shock.

Installation personnel should comply with local installation standards and regulations when installing battery systems. When shutting down the battery system, please follow the sequence of the following steps to prevent damage to the system:

Option 1:

Step 1: Deenergize the inverter used in the system, please refer to the user manual of the corresponding model of inverter for detailed operation.

Step 2: Press the control box switch button 1 and wait for 15 seconds and confirm that the SOC indicator and button indicator of the control box are off.

Option 2:

Step 1: Deenergize the inverter used in the system, please refer to the user manual of the corresponding model of inverter for detailed operation.

Step 2: Disconnect the control box air switch and confirm that SOC indicator and button indicator of the control box are off.

8.2 Regular maintenance



Warnings

- If you find any problems that may affect the battery or the energy storage inverter system, please contact the after-sales personnel, it is prohibited to dismantle the product without authorization.
- If you find the internal copper wire of the conductive line is exposed, it is forbidden to touch it, live-line is danger, please contact the after-sales personnel, and it is prohibited to dismantle the product without authorization.
- In case of other emergencies, please contact the after-sales personnel immediately and operate under the guidance of the after-sales personnel, or wait for the after-sales personnel to operate on site.

	Maintenance cycle
Check whether the anti-tipping bracket is loosely installed, if so, tighten the corresponding position.	Once per 6 months
Check whether the casing is broken, if so, please conduct touch-up painting or contact the after-sales service center.	Once per 6 months
Check whether the exposed cables are worn, if so, please replace the corresponding cables or contact the after-sales service center.	Once per 6 months
Check whether there is any debris accumulation around the battery, if so, please clean up so as not to affect the heat dissipation of the battery.	Once per 6 months
Check whether there is water or vermin to avoid prolonged intrusion on battery.	Once per 6 months

9 Technical parameters

Product parameters	
System Model	JCL16
Battery Type	LFP
Rated Capacity	314Ah
Rated Voltage	51.2V
Rated Energy	16.07kWh
Available Energy	16.07kWh
Minimum Voltage	44.8V
Maximum Voltage	57.6V
Rated Charge/Discharge Current	150A/150A
Rated DC Power	7680W
Max Charge/Discharge Current	200A/200A
Max Charge/Discharge Power	10240W
Recommended Charge/ Discharge C Rate	0.5C
Depth Of Discharge	100%
Weight	120kg
Dimensions	890*265*433±3mm
Protection level	IP65
Communication method	CAN, RS485
Cycle Life	6000
Design Life	10years
Case Material	SPCC
Operation Temperature	Charging temperature range: 1-50 °C, discharging temperature range: -20-55 °C
Cooling Mode	Natural Cooling
Fire Protection System	Perfluoro-2-methyl-3-pentanone
Warranty Period	10 years
Note	

- 1) Optimal operating temperature range: 10~35°C charging temperature range: 0~55°C; discharging temperature range: -20~55°C.
- 2) Test condition: Based on the production date above, discharge current is 150A at 25°C±5°C with 100% DOD.
- 3) Battery module weight includes upper cover and is net weight, allowable tolerance ± 3%.
- 4) Please follow user manual for proper installation, use, and maintenance.
- 5) Battery modules capable of high-rate operation can be shipped with base trays.
- 6) Quantity matches system/device requirements.
- 7) The installation of energy storage systems is related to ensuring product quality and safe and stable operation. Please follow the requirements of the user manual for standardized installation, use, and daily maintenance.
- 8) The energy storage system is ordered and shipped in the form of independent battery modules and pallets, with quantities corresponding to the required systems and equipment.
- 9) Recommended charging method: Charge with a constant current of 150A to 57.6V.



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