

Jinko Battery System

QUICK INSTALLATION GUIDE

JKS-BXXX37-CS









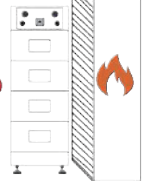
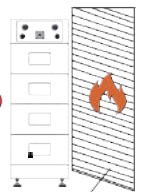
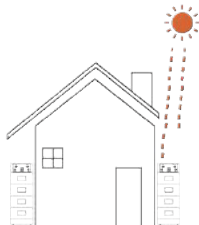




Skilled personnel recognized

This manual and the tasks and procedures described herein are intended for use by skilled workers only. A skilled worker is defined as a trained and qualified electrician or installer who has all of the following skills and experience:

- Knowledge of the functional principles and operation of on-grid systems.
- Knowledge of the dangers and risks associated with installing and using electrical devices and acceptable mitigation methods.
- Knowledge of the installation of electrical devices.
- Knowledge of and adherence to this manual and all safety precautions and best practices.
- Please note that this is the quick reference guide only. It is a shortened assistance for the installation of the Battery HV and does not replace the original installation manual. The original installation manual must be read and understood completely before installation. Please download and view the installation manual on this website: www.jinkosolar.com (Downloads)
- In order to ensure the normal operation of Battery-Box, please be sure to update the firmware to the latest version and finish the configuration on Battery-Box webpage in accordance with this document.
- The system switch must be off before installing.
- Please make sure the system switch is off in case of the system not working, and it would be better to repair it again within one week, avoiding overdischarge or other problems happen.
- Please do not stack up batteries without protective package when storing or handling batteries, unless in the case of installation.
- Any damage resulting from non-compliance with the information contained in this manual will void the warranty.
- Total discharge of the battery is not recommended. In the event that this happens, it must be recharged within the next 12h.
- For battery expansion module, all modules must be precharged at 100% SOC. For battery system expansion, please refer to the battery expansion guide.

Installation Environment Requirements

<div> <div>Max. +50°C </div> <div>Min. -10°C </div> <div>RH. +5%~+95% </div> </div>			
 YES	 YES	 YES	<div> <div>NO</div>  Flammable material or gas near the installation </div> <div> <div>NO</div>  Flammable wall </div>
 NO Direct sunlight	 NO Direct rain fall	 NO Snow accumulation	

The battery could be installed both indoor or under the outdoor eaves where is not in direct sunlight, rain fall and snow accumulation. And the clearance to flammable materials or gas should be more than 1 meter.

Tools



Power Cable Clamp



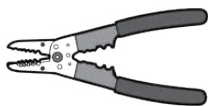
Pen



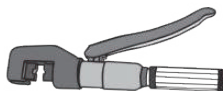
Phillips Screwdriver Bit



Flat-Head Screwdriver



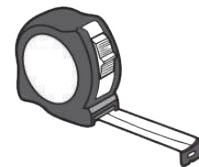
Wire Stripper



Crimping Pliers



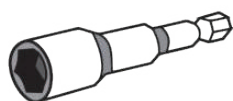
Wrench



Tape Measure



Hair Dryer



Cylinder Screwdriver


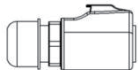









Torque Wrench



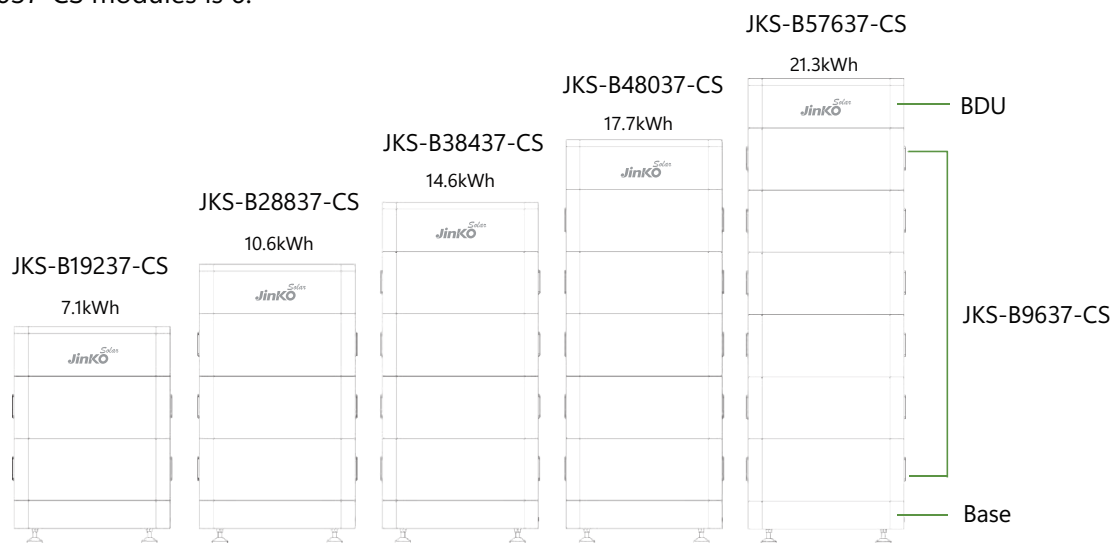
Drill

Packing list

Item	Specification	Quantity	Figure
Communication Cable to Inverter	Standard, Black /L2000mm /RJ45 plug at both sides	1 PCS	
Communication Connector to BDU	RJ45 Waterproof connector	1 PCS	
Cross recessed countersunk head screw	M4*10	20 PCS	
M6 3 Sets of Combined Screws	M6×14 pcs	1 PCS	
Ground terminal	OT4-6	2 PCS	
Power Cable Connector	To positive pole of battery	1 PCS	
Power Cable Connector	To negative pole of battery	1 PCS	
Power Cable	Positive cable 6mm ² ,red,2m	1 PCS	
Power Cable	Negative cable 6mm ² ,black,2m	1 PCS	

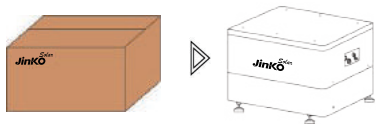
Overall Structure

- Limited to the voltage interval of the inverter, the smallest number of JKS-B9637-CS modules used by series is 2.
- Limited to the conversion conditions of the BDU internal DC, the maximum number of JKS-B9637-CS modules is 6.

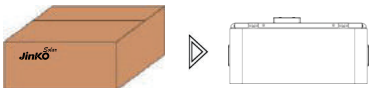


1 Unpack

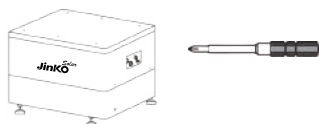
BDU + Base



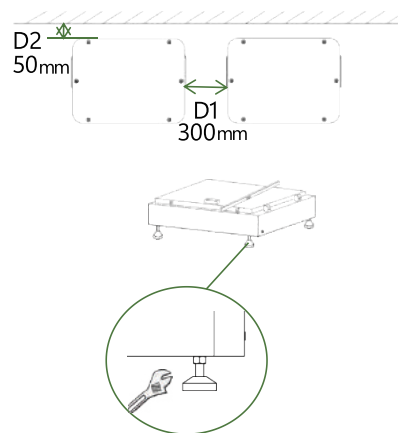
HV9637



2 Separate the BDU and Base



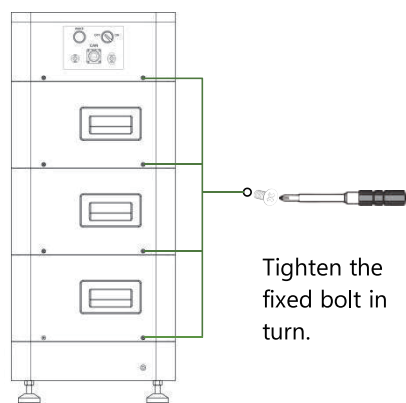
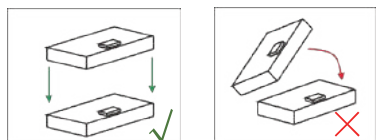
3 Balance



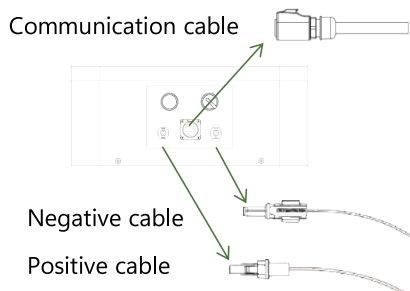
For a proper ventilation to disperse the heat of battery, allow a clearance of approximately 300mm to the side and approximately 50mm to the wall.

4 Stacking and locking

Note: When assembling the BDU, ensure that the circuit breaker switch of the BDU is in the "OFF" state.

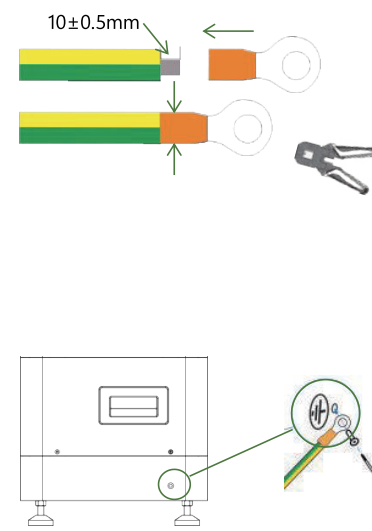


5 Connect the cable



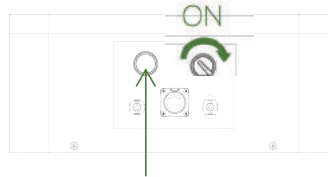
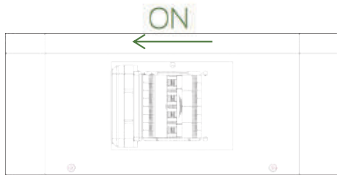
Note: We recommend that a circuit breaker is installed between the battery and the inverter to prevent the battery or the inverter damaged when the short circuit occurs.

6 Earth connection



7 Battery system on

1. First, push the circuit breaker of BDU to the "ON" state.
2. Turn the self-locking switch to "ON", press and hold the "WAKE" button 3 ~ 7secs , release your fingers, the green light will always be on, and the battery will be turned on successfully.



Press and hold the "WAKE" button 3 ~ 7secs.

8 Battery system Shut down

1. Switch off the "POWER ON" switch.
2. Switch the "DC BREAKER" to the "OFF" state .



Battery System Expansion

Solution 1 High Voltage battery expansion(With DC Charger)

Step 1: Initial Preparation

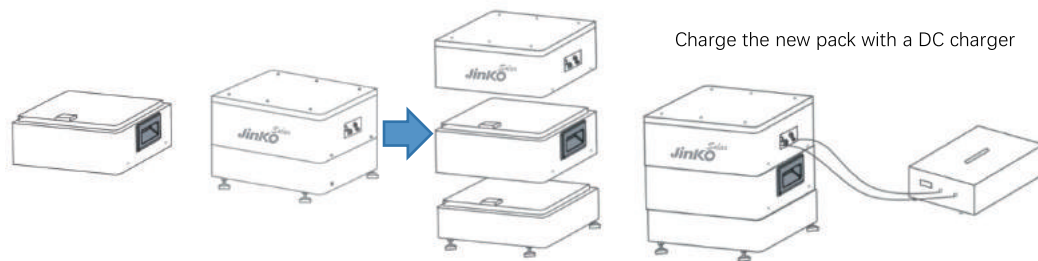
Disconnect existing battery and ensure safety precautions.

Step 2: Charge the original battery tower to SOC 100%

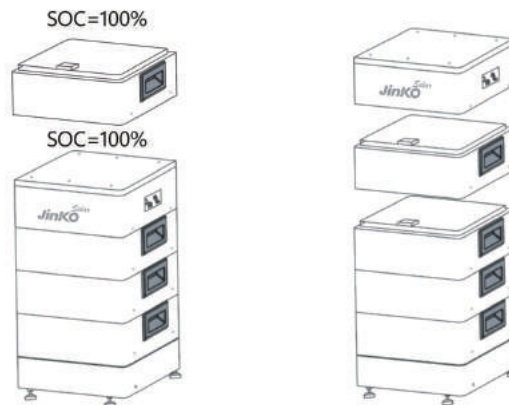
Use an inverter to charge the tower until the SOC reaches 100%.

Step 3: Charge the new battery module to 100% with a DC charger

Add the new module JKS-B9637-CS between the base and HVB (High Voltage Box). Please note that the factory SOC of the module is initially set at 50%. A DC charger is needed. Configure the charging voltage of DC charger to 110V. Continue charging the battery until the HVB automatically terminates the charging process.



Step 4: Add the new battery module to the system



Solution 2 High Voltage battery expansion(Without DC Charger)

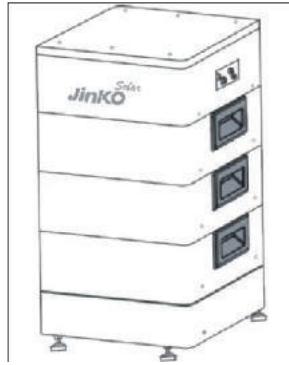
Step 1 Initial Preparation

Disconnect existing battery and ensure safety precautions.

Step 2: Preparing for Expansion

Discharge the original battery tower to 40% State of Charge (SOC)

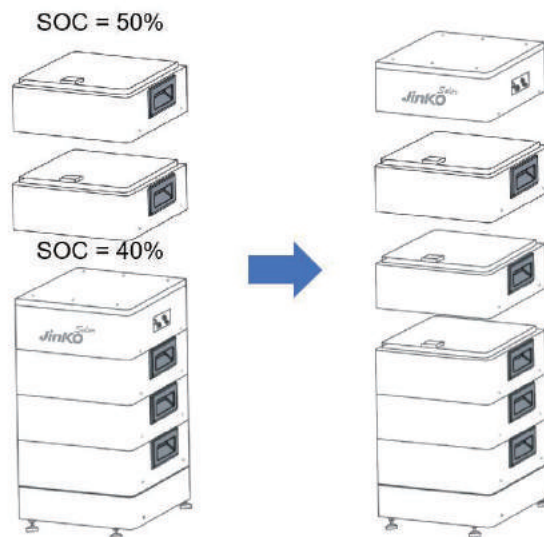
Discharge the SOC to 40%



Step 3: Integrating the New Battery Module

3.1 Add the new battery modules into the existing battery tower.

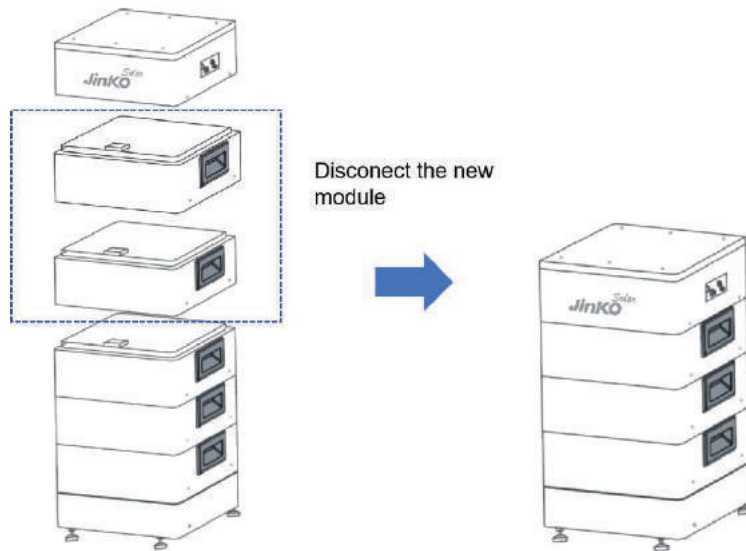
3.2 In cases of insufficient photovoltaic (PV) power generation, enable grid charging to the batteries in the inverter setting. Continue charging until the battery state of charge (SOC) reaches 100% or the charge current limit reaches 0A.



Step 4: Removing the new battery modules and keep charge the original batteries to SOC 100%

4.1 Carefully disconnect and remove the new battery module from the integrated system.

4.2 Restart the charging process for the original battery tower until battery state of charge (SOC) reaches 100% or until the charge current limit reaches 0A.



Step 5: Reintroducing the New Battery Module

5.1 Reconnect the new battery module, which is already at 100% SOC, to the original battery system.

5.2 Ensure that the new module is securely integrated into the original system.

Furthermore, please remember to restore the original settings of the inverter.



Step 6: Finalizing

6.1 Perform system assessment for stability and functionality.

6.2 Create documentation for future reference.

Safety Warning: Ensure safety gear and protocols during all connections and disconnections to prevent accidents or damage.

Please refer to the detailed manual for specific instructions, manufacturer recommendations, and safety guidelines. Always prioritize safety during installation.

Inverter Compatibility Statement

We

Manufacture name: Jinko Solar Co., Ltd.

Address: No.1, Yingbin Road, Economic Development Zone, Shangrao City, 334100 Jiangxi,
P.R. China

Web: www.jinkosolar.com

Declare that the statement is issued under our sole responsibility and belongs to the following product:

Product: Rechargeable Li-ion Battery

Model(s): JKS-BXXX37-CS (JKS-B19237-CS, JKS-B28837-CS, JKS-B38437-CS, JKS-B48037-CS, JKS-B57637-CS)

Description: JKS-B9637-CS is an energy storage unit composed of electrochemical cells, switch button, battery management system (BMS), power and signal terminals, and mechanical parts. Each JKS-B9637-CS Consists of 37Ah cells which form 96V voltage battery pack. Two to Six JKS-B9637-CS can be connected in parallel and extend the capacity and power of energy storage system.

Object of the statement described above is compatible with the inverters in the following table.

Inverter Manufacture	Product	Model
Jinko Solar Co., Ltd.	Hybrid Inverter	JKS-5H-EI-AU JKS-6H-EI-AU JKS-8H-EI-AU JKS-10H-EI-AU JKS-12H-EI-AU JKS-15H-EI-AU JKS-20H-EI-AU JKS-25H-EI-AU

Jinko Solar Co., Ltd.

03/08/2024



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