

# BYD BATTERY-BOX PREMIUM QUICK START GUIDE

Valid for HVL 12.0/ 16.0/ 20.0/ 24.0/ 28.0/ 32.0



Please note that this is a Quick Start Guide only, which is a shortened assistance for the installation of the BYD Battery-Box Premium HVL. It does not replace the Operating Manual, which must be read and understood completely before installation. Please download and view it on this website: [www.bydbatterybox.com](http://www.bydbatterybox.com).

Attention: High Voltage! Improper handling can pose a risk of electric shock and damage.

This guide 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 guide, the complete installation manual and all safety precautions and best practices.

In order to ensure the normal operation of the BYD Battery System, please download the app Be Connect 2.0 and then finish the configuration in accordance with this document.

If there are errors generated during the commissioning or operation, please read the Service Guideline and Checklist alongside this document, or digital version on the website.

If the battery system doesn't start at all, please contact BYD's local after-sales service team within 48 hours. Otherwise, the battery could be permanently damaged.

Please do not stack up batteries without protective packages when storing or handling batteries, except for installation.

QR code for app, installation video.



Be Connect 2.0  
Google Play



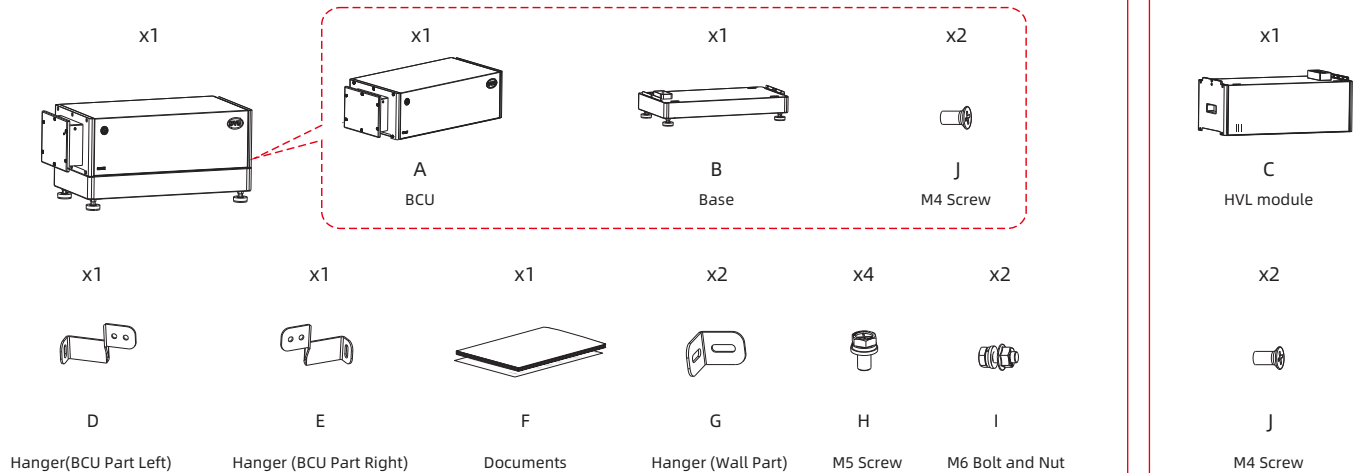
Be Connect 2.0  
APP Store



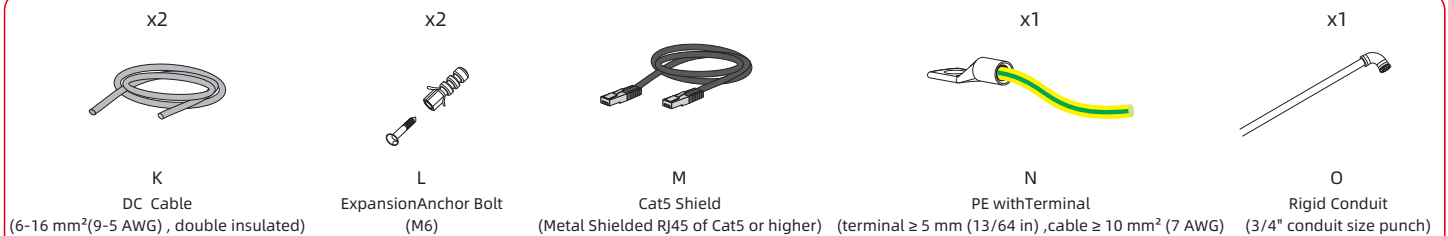
Installation  
Video



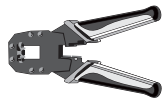
## 1. Scope of Delivery



## 2. Not Included in Scope of Delivery



### 3. Tools



Network Wire Clamp



Pen



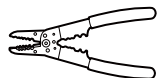
Phillips Screwdriver Bit



Torque Wrench



Flat-Head Screwdriver



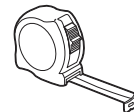
Wire Stripper



Cylinder Screwdriver



Wrench



Tape Measure



Drill

### 4. Installation Location



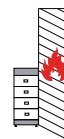
Max +50 °C (122°F)



Min -10 °C (14°F)

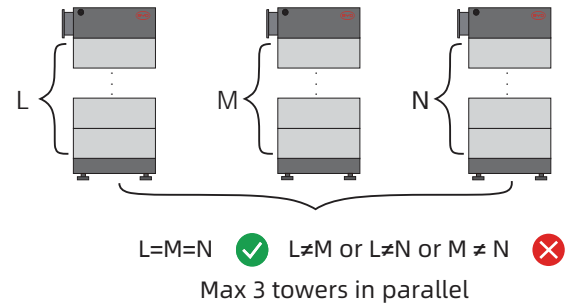
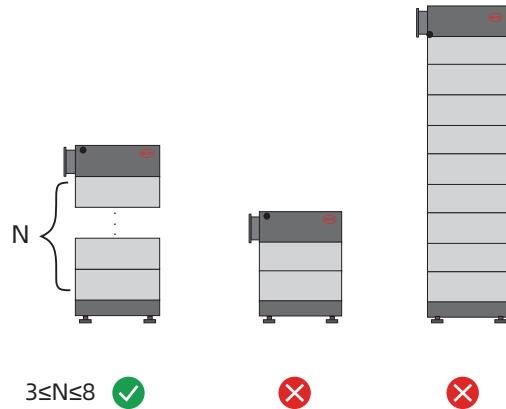


RH. +5 %~+95 %

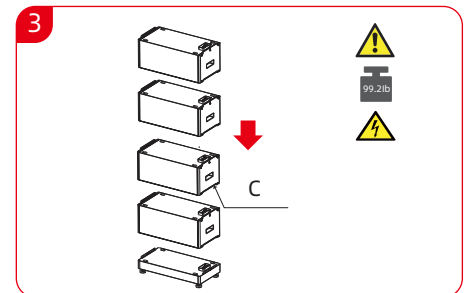
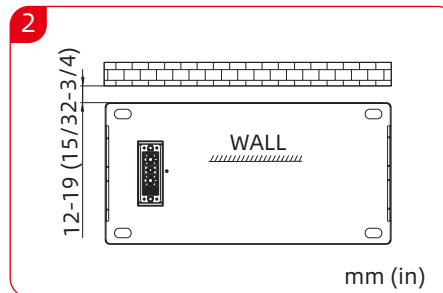
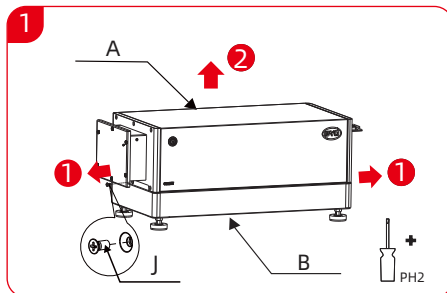


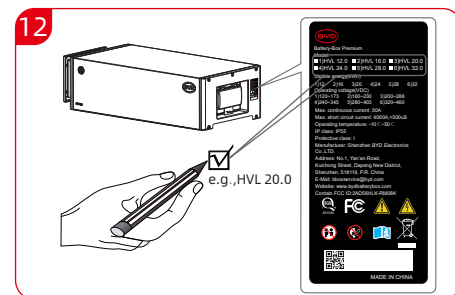
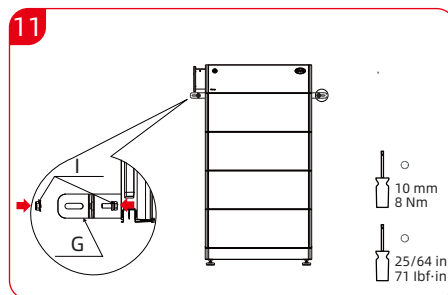
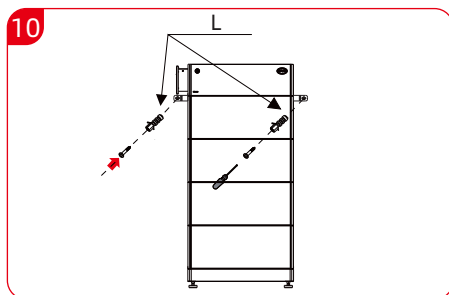
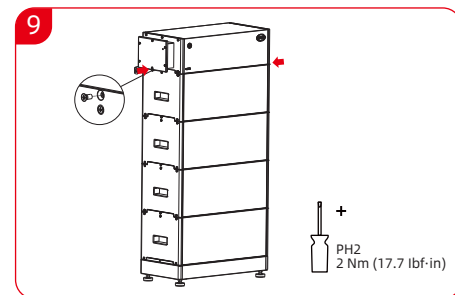
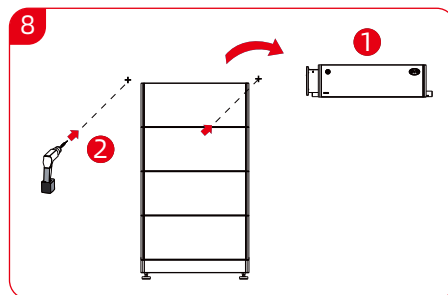
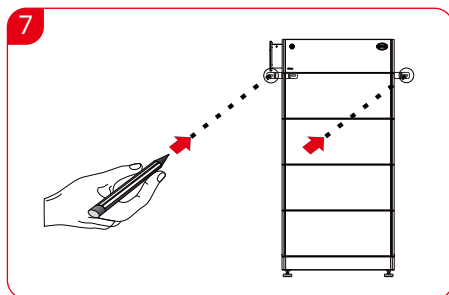
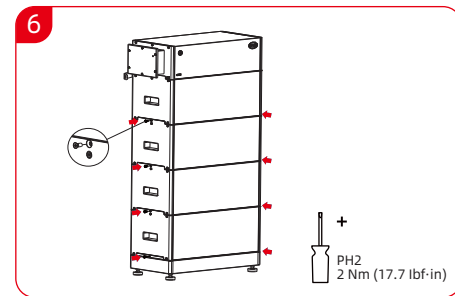
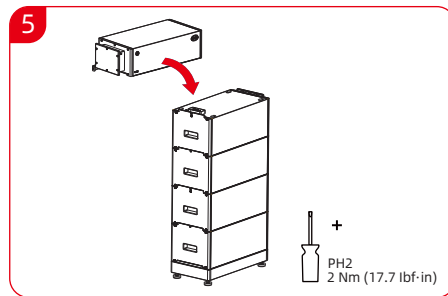
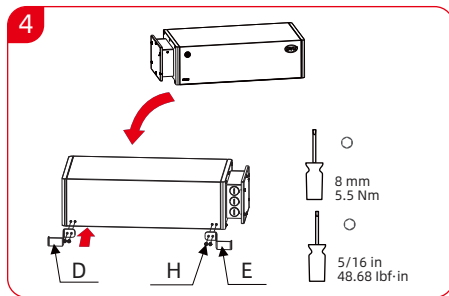


## 5. Module Parallel Connection Limitation



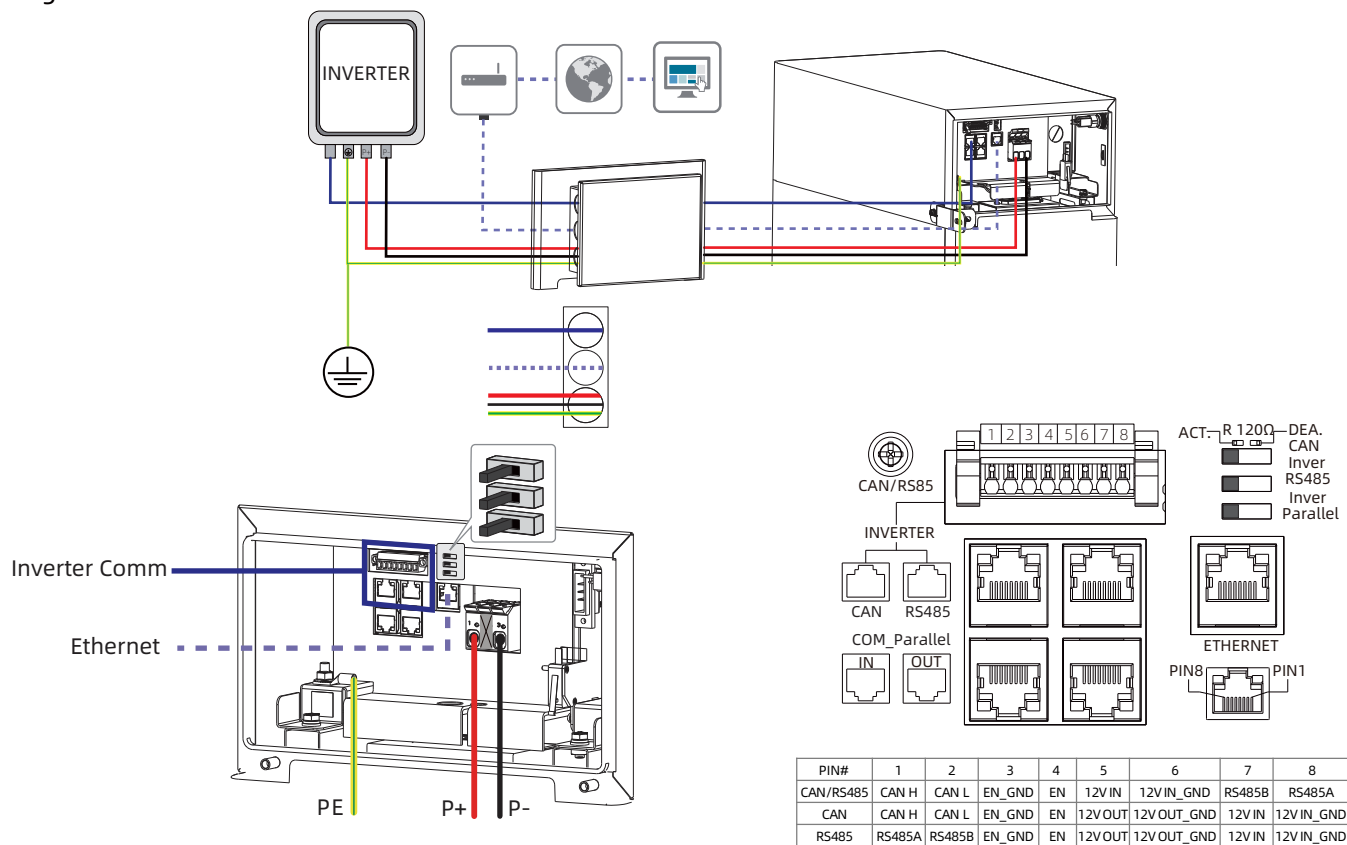
## 6. Installation



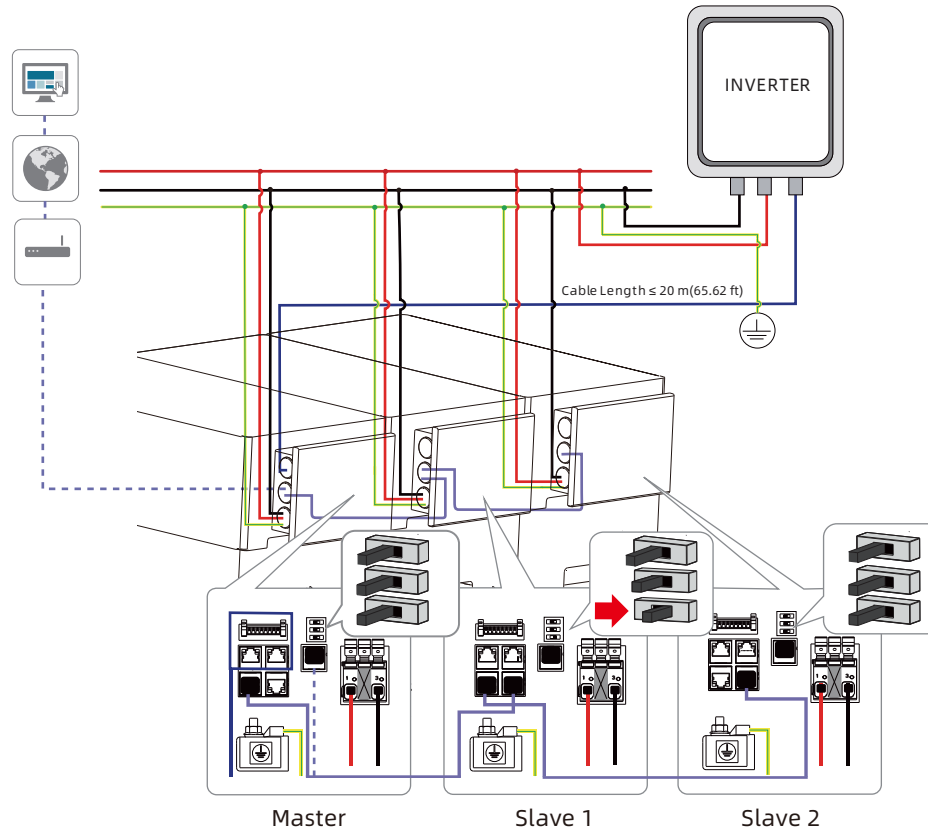


## 7. Connection Diagram

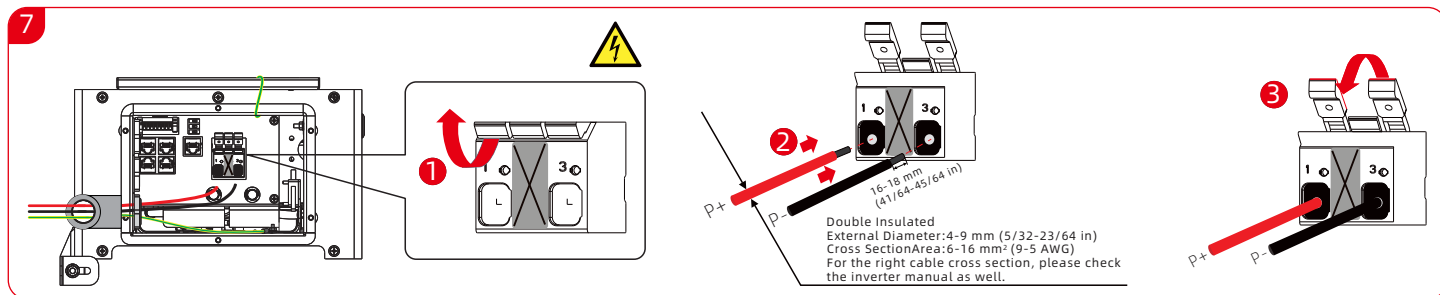
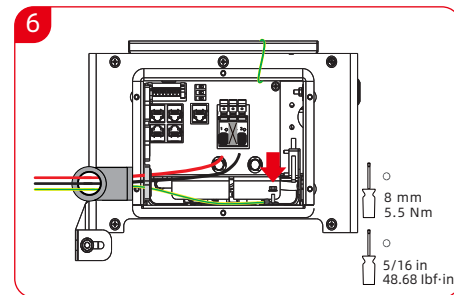
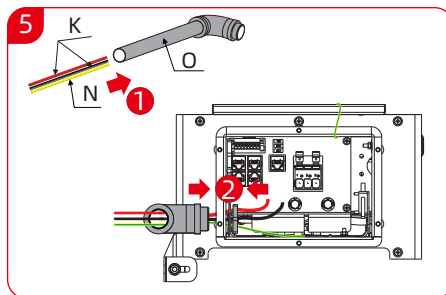
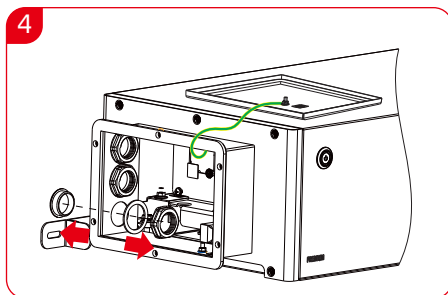
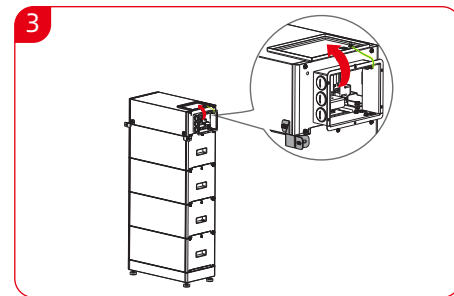
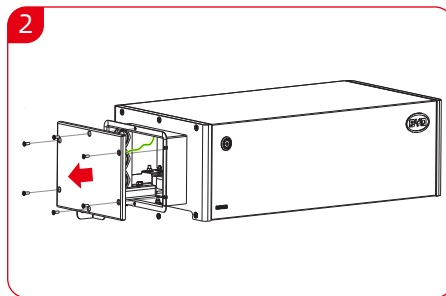
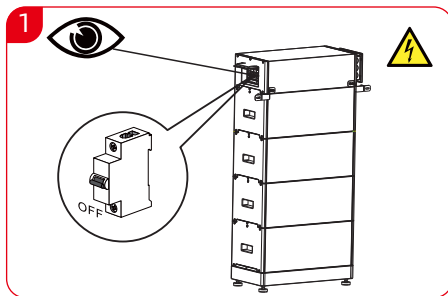
### Single Tower



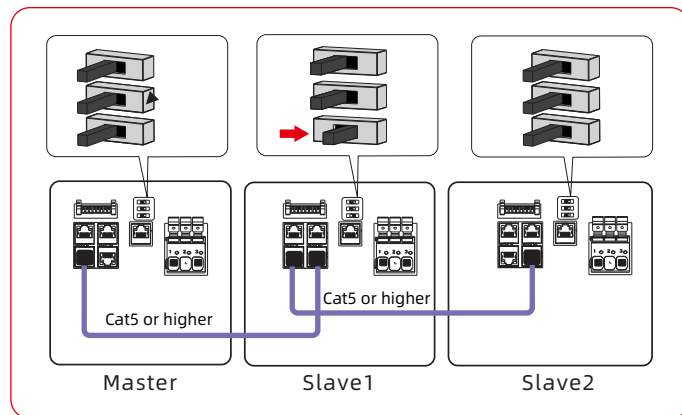
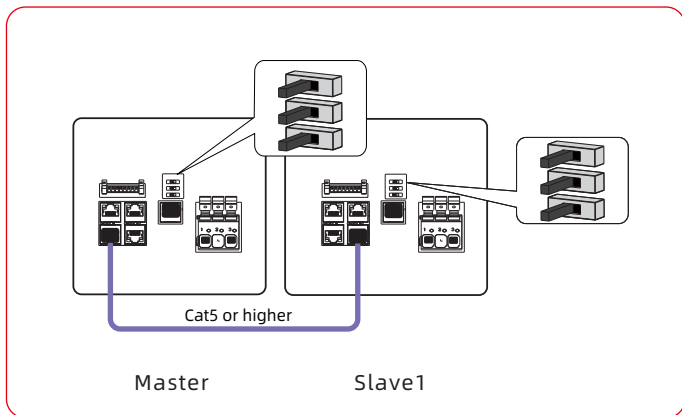
Three Towers. Ignore the Slave 1 in the drawing below to get the diagram of two towers.



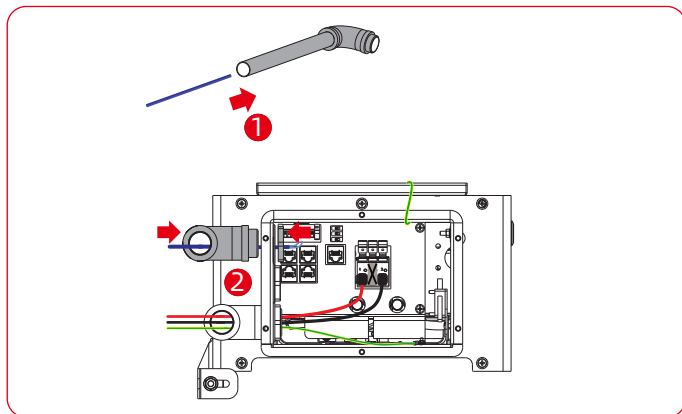
## 8. PE and DC Cables Connection



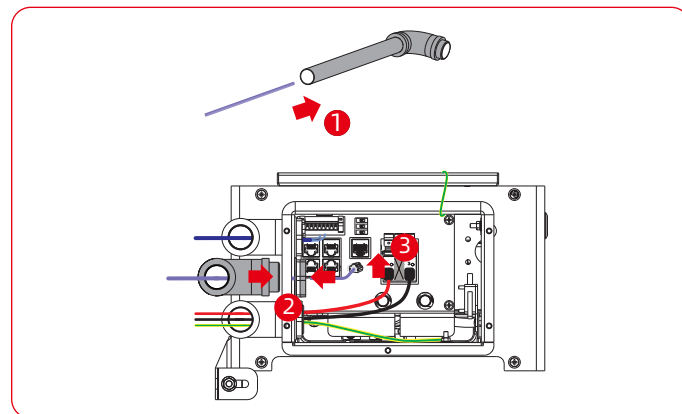
## 9. Connecting the Data Cable to other Battery System(s)



## 10. Data Cable Connection to Inverter



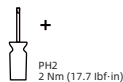
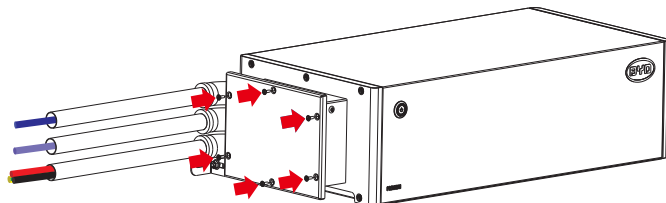
## 11. Connecting the Network



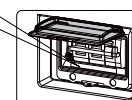
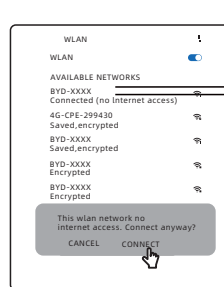
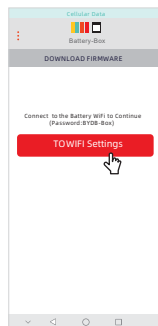
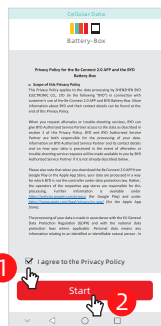
## 12. Close up

### NOTICE

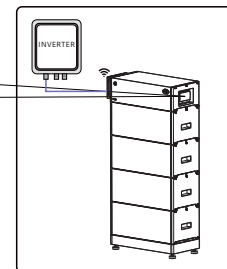
If the panel is not closed,  
the battery cannot be turned on.

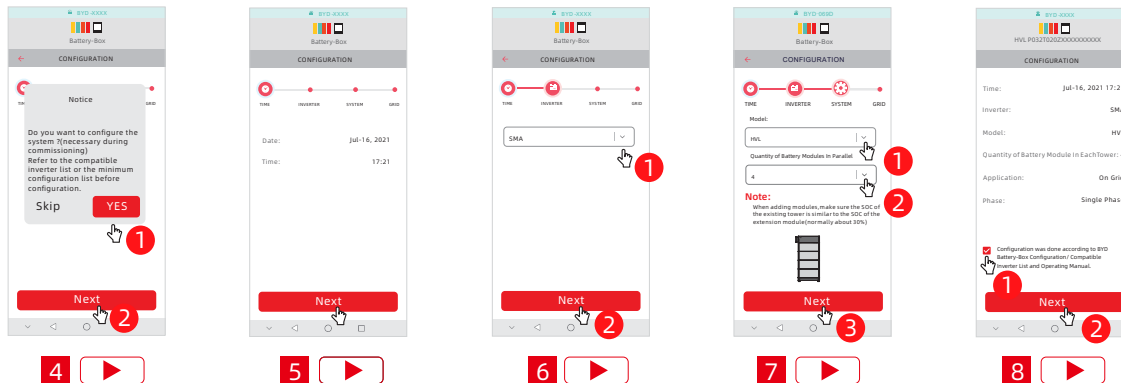


## 13. Commissioning

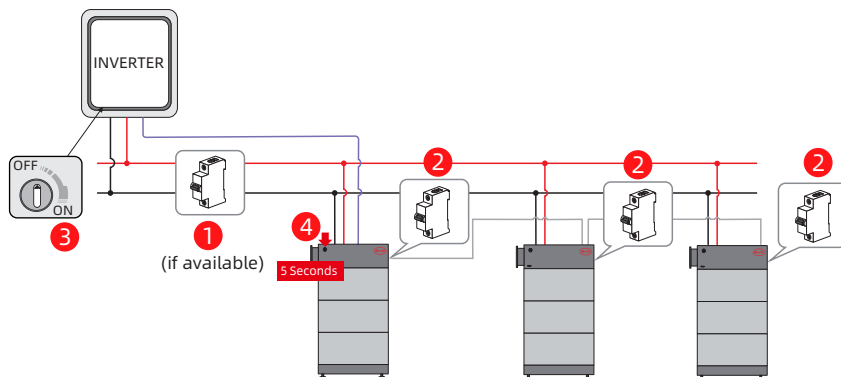


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Quick Start Guide





## 14. Switch ON/OFF Procedure



Battery WLAN will automatically shut off in five hours. Press the LED button once around one second or restart the system to activate it.



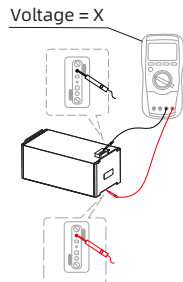
Switch On Procedure: 1 → 2 → 3

Switch Off Procedure: 3 → 4 → 1



## 15. Extension

Note: Within 5 days before extension, it is recommended to fully charge the original system to SOC 100%.



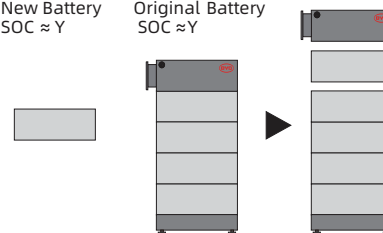
- ① Measure the voltage of the new battery module, get a value (X).

	Voltage (X) / V	SOC(Y)
HVL	<50.32	0~5%
	50.32≤V<51.52	5~10%
	51.52≤V<51.74	10~15%
	51.74≤V<52.24	15~20%
	52.24≤V<52.64	20~25%
	52.64≤V<52.85	25~30%

- ② Refer to the above table to find out the SOC (Y) corresponding to the X.

New Battery  
SOC ≈ Y

Original Battery  
SOC ≈ Y



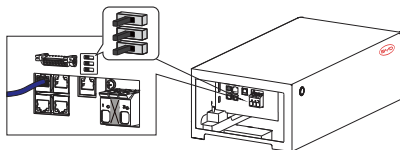
- ③ Charge or discharge the original battery system until the SOC is almost equal to Y, and then add the new battery module. Do not forget to do the configuration after that.

## 16. LED Status

Blinking white and blue alternatively	White <input type="radio"/> ON <input type="radio"/> OFF Blue <input checked="" type="radio"/> ON <input type="radio"/> OFF		The battery system is initiating
Solid white	White <input type="radio"/> ON <input type="radio"/> OFF Blue <input checked="" type="radio"/> ON <input type="radio"/> OFF		Idle (the battery system is neither charging nor discharging).
Blinking white slowly	White <input type="radio"/> ON <input type="radio"/> OFF Blue <input checked="" type="radio"/> ON <input type="radio"/> OFF		The battery system is charging.
Blinking white quickly	White <input type="radio"/> ON <input type="radio"/> OFF Blue <input checked="" type="radio"/> ON <input type="radio"/> OFF		The battery system is discharging
Blinking white and solid blue	White <input type="radio"/> ON <input type="radio"/> OFF Blue <input checked="" type="radio"/> ON <input type="radio"/> OFF		The battery system is discharging, and the SOC is below 15 %.
Blinking white and blue	White <input type="radio"/> ON <input type="radio"/> OFF Blue <input checked="" type="radio"/> ON <input type="radio"/> OFF		An error has occurred (refer to service guideline and checklist for further details)

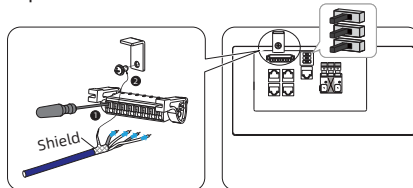
# Communication Options with Inverters

## CAN Port

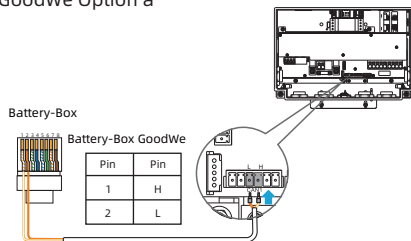


PIN	1	2	3	4
CAN/ 8-Pin	CAN H	CAN L	EN_GND	EN

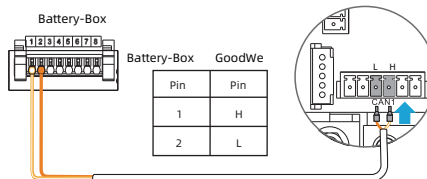
## 8-pin Connector



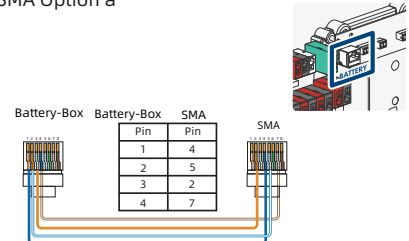
### 1 GoodWe Option a



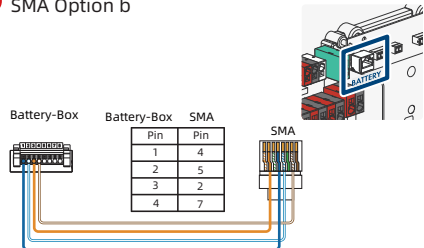
### 2 GoodWe Option b



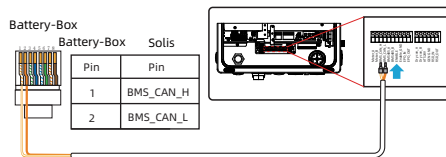
### 3 SMA Option a



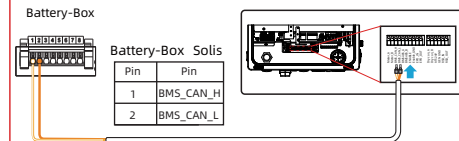
### 4 SMA Option b



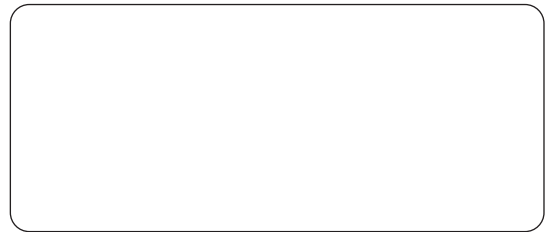
### 5 Solis Option a







### 6 Solis Option b







WLAN name, password and serial number.

A large, empty rounded rectangular box with a thin black border, intended for inputting the WLAN name, password, and serial number.

#### BYD Global Service

-  [bboxservice@byd.com](mailto:bboxservice@byd.com)
-  + 86 755 89888888-47175
-  No. 3009, BYD Road, Pingshan, Shenzhen, 5118118, P.R. China
-  [www.bydbatterybox.com](http://www.bydbatterybox.com)

#### US Service BYD AMERICA LLC

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-  626-491-2333
-  888 E Walnut, St. Suite 200A, Pasadena, CA 91101, USA
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