BYD BATTERY-BOX PREMIUM QUICK START GUIDE

Valid for HVS 5.1/ 7.7/ 10.2/ 12.8 HVM 8.3/ 11.0/ 13.8/ 16.6/ 19.2/ 22.1





Please note that this is a Quick Start Guide only, which is a shortened assistance for the installation of the BYD Battery-Box Premium HVS/HVM. 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.

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.



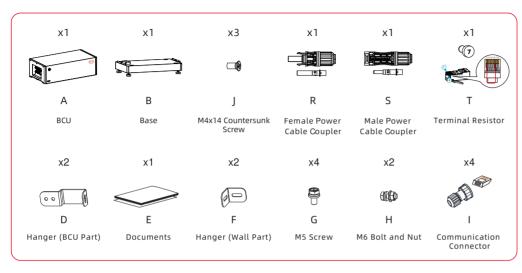


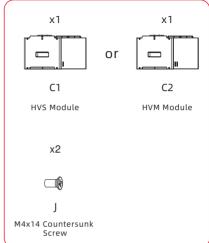


Be Connect 2.0 APP Store



1. Scope of Delivery

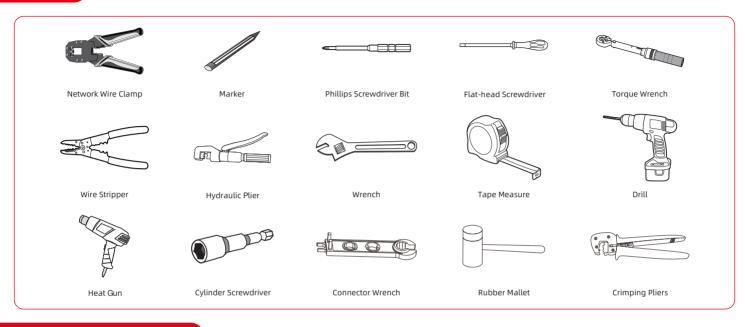




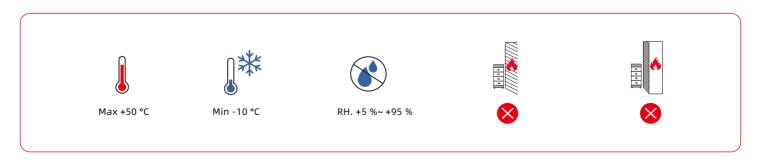
2. Additionally Required Installation Materials



3. Tools

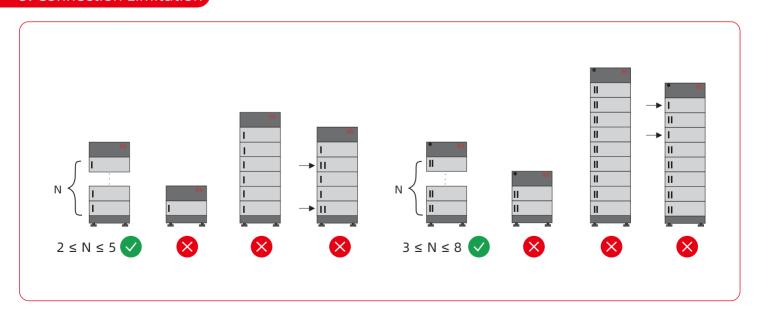


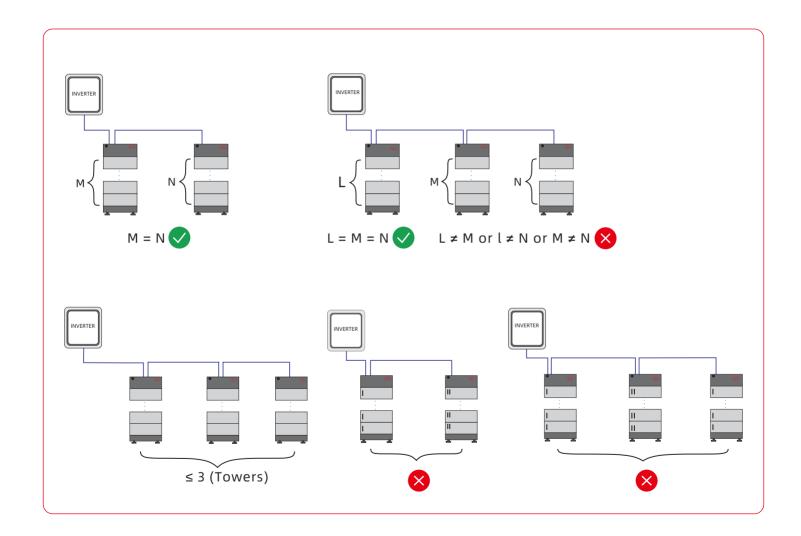
4. Installation Location



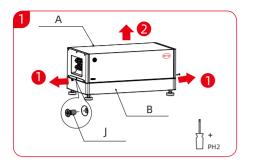


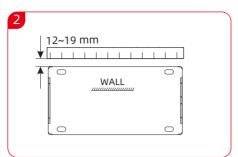
5. Connection Limitation

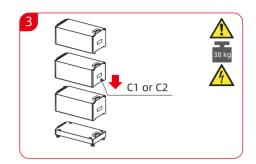


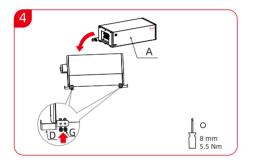


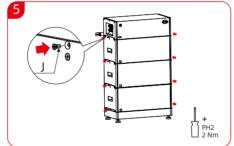
6. Installation

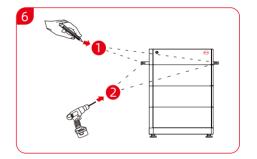


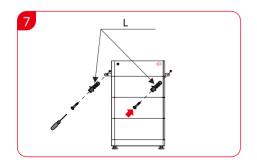


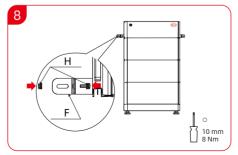


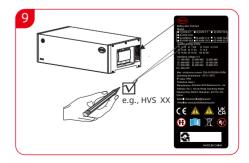






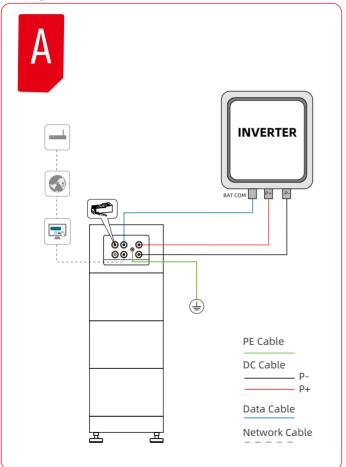


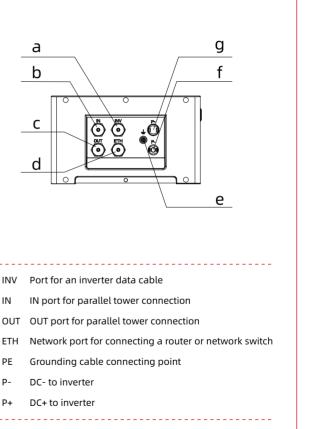




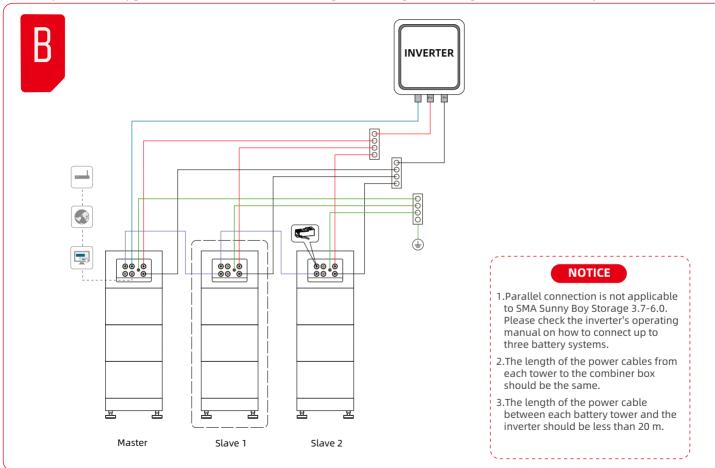
7. Connection Diagram

Single Tower





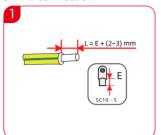
Multiple Towers (Ignore the Slave 1 in the drawing below to get the diagram of two towers)

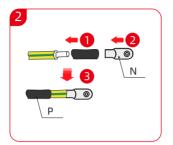


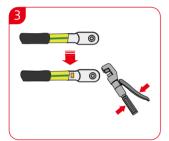
8. Electrical Connections

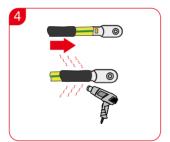
NOTE: Before making all electrical connections, please make sure the air switch on the BCU is off.

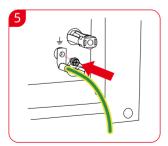
8.1 PE Connection



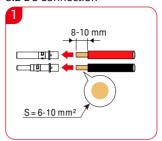


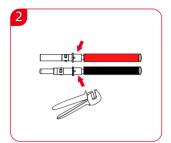


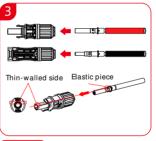




8.2 DC Connection



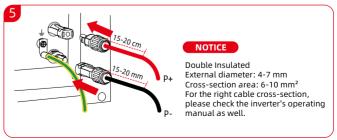




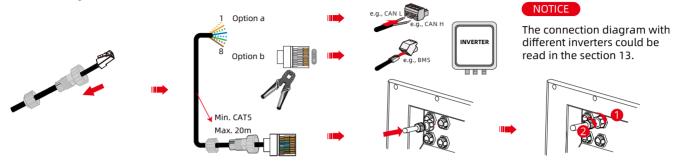


NOTICE

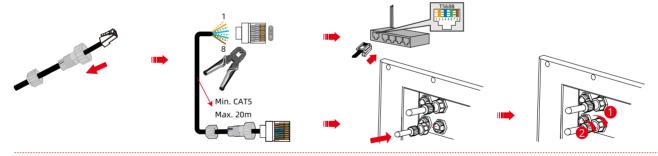
- Any elastic piece of the terminal must be aligned with the thin-walled side of the plastic case opening before insertion;
- After inserting, please try pulling it out slightly to check if the terminal and the plastic case are securely connected.



8.3 Connecting the Data Cable to an Inverter

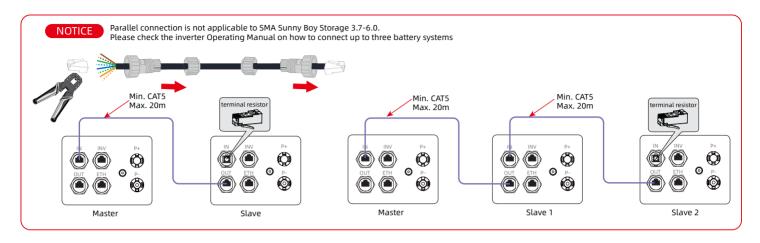


8.4 Connecting the Data Cable to a Router (It's not mandatory, but recommended)

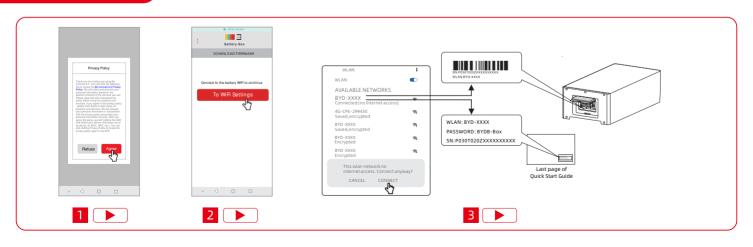


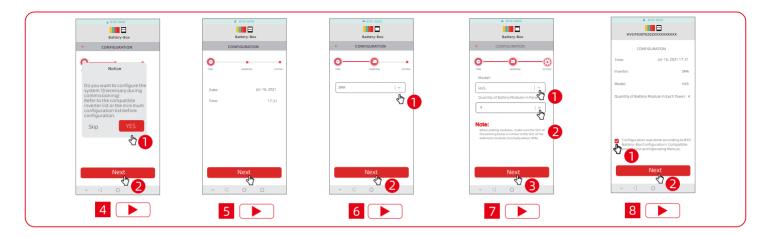
8.5 Installing the Terminal Resistor



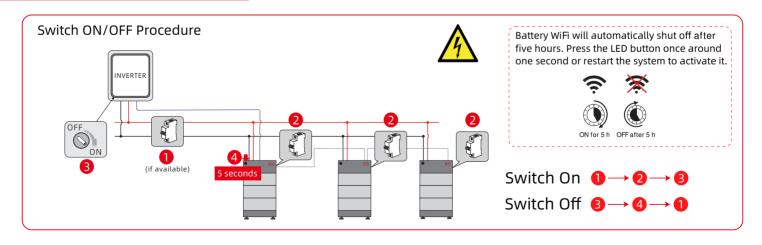


9. Configuration



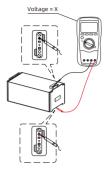


10. Switch ON/OFF Procedure



11. Extension

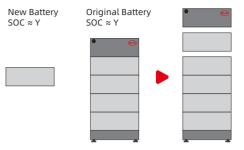
Note: Within 5 days before extension, it is recommended to fully charge the original system to SOC 100% at least once.



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

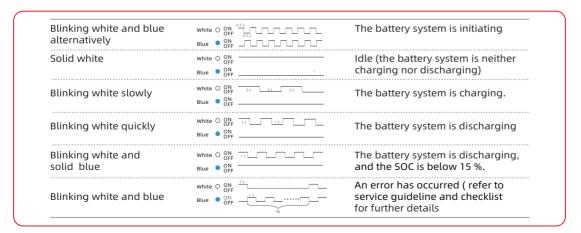
	Voltage (X)/ V	SOC (Y)
HVS	X<100.80	0~5%
	100.80≤X<103.20	5~10%
	103.20≤X<103.68	10~15%
	103.68≤X<104.54	15~20%
	104.54≤X<105.41	20~25%
	105.41≤X	25~30%
HVM	X<50.32	0~5%
	50.32≤X<51.52	5~10%
	51.52≤X<51.74	10~15%
	51.74≤X<52.24	15~20%
	52.24≤X<52.64	20~25%
	52.64≤X	25~30%

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

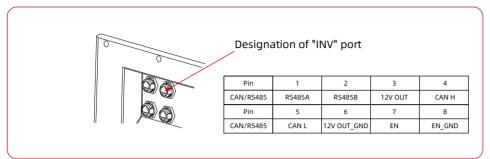


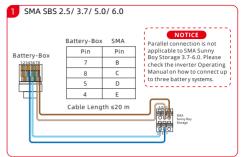
③ Charge or discharge the original battery system until the SOC is almost equal to Y, and then add the new battery module. Do not forget to do the configuration after that.

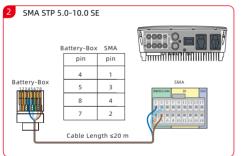
12. LED Status

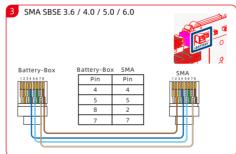


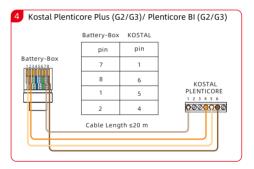
13. Communication Options with Inverters

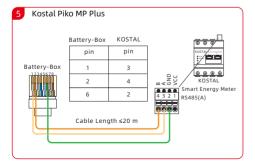


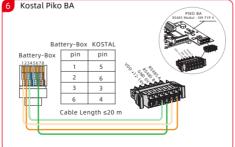


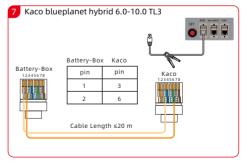


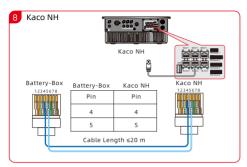


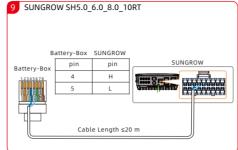


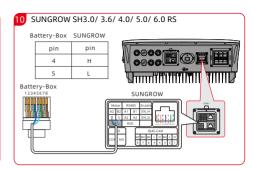


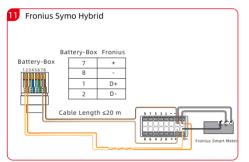


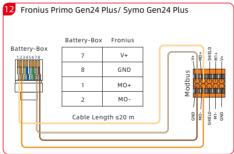


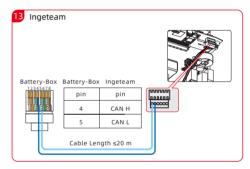


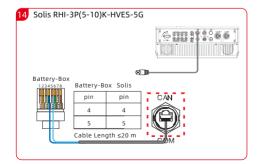


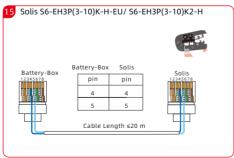


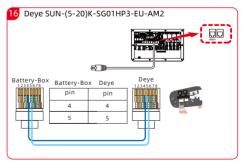


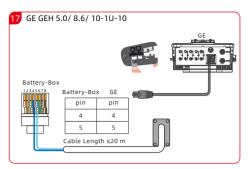


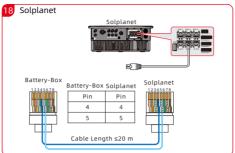


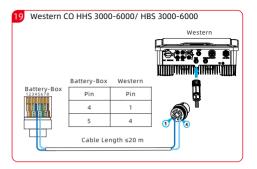


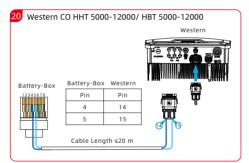


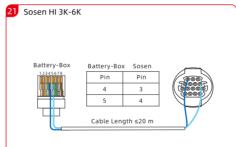


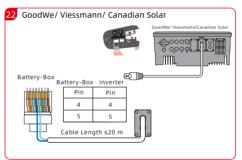


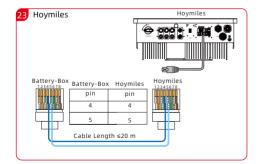


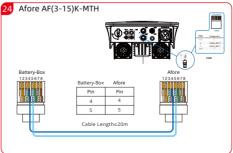


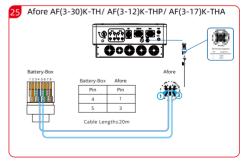


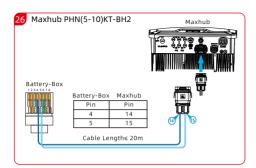


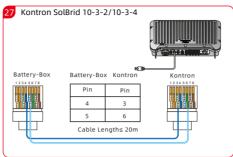












WLAN name, password and ser	ial number.







Twitter

Facebook

Linkedin



18/3613/-00

Global Service BYD Company limited

bboxservice@byd.com

+ 86 755 89888888-47175

No.3009, BYD Road, Pingshan, Shenzhen, 5 518118, P. R. China

www.bydbatterybox.com

Europe EFT-Systems GmbH

service@eft-systems.de

+ 49 9352 8523999 / +44 (0) 2037695998(UK) +34 91 060 22 67(ES) / +39 02 87368364(IT)

Bruchtannenstr. 28, 63801 Kleinostheim, Germany

www.eft-systems.de

Australia Alps Power Pty Ltd

service@alpspower.com.au

+ 61 2 8005 6688

2/62 Belmore Road, Riverwood, NSW 2210

www.alpspower.com.au