



BYD Battery-Box HV

QUICK INSTALLATION GUIDE

Valid for Battery-Box H 5.0/7.5/10.0



USA V1

Important

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.
- You must update the latest firmware of BCU after completing the Battery-Box H 5.0-10.0, the installer is responsible for system damage caused by not updating the software in time. Before installing BCU, make sure the system switch is switch off.
- If the system does not work, please switch off the system switch before you leave to avoid damage caused by the event.

Installation environment requirements

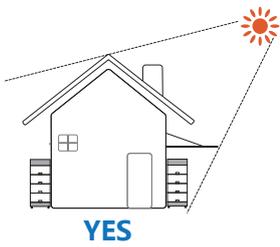
Max.
+50°C



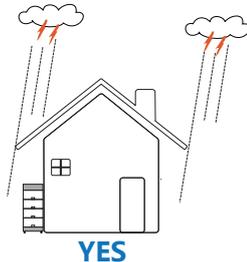
Min.
-10°C



RH.
+5%~+95%



YES

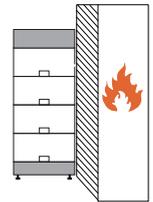


YES

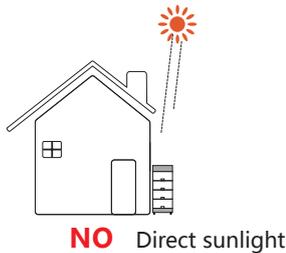


YES

NO



Flammable material or gas near the installation



NO Direct sunlight

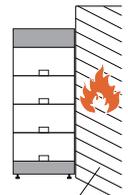


NO Direct rain fall



NO Snow accumulation

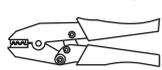
NO



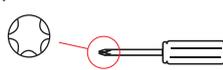
Flammable wall

Tools

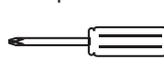
Wire Crimp



M6/M4 Precision screwdriver



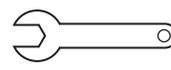
Phillips screwdriver



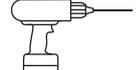
Levelling instrument



Wrench



Power drill



Packing list

Packing of BCU+BASE

① M6 ×6PCS



② M6 Expansion bolt ×3PCS



③ OT terminal for P+/P-/Ground×4PCS



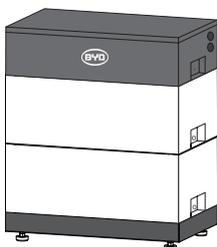
Packing of B-Plus H 2.5

④ M6 ×4PCS

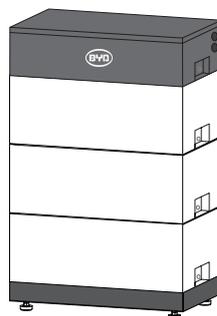


Overall structure

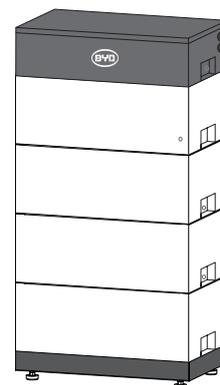
Battery-Box H 5.0



Battery-Box H 7.5



Battery-Box H 10.0



BCU

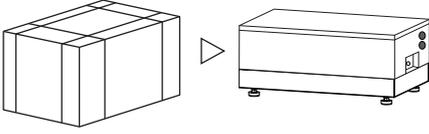
B-Plus H 2.5

Base

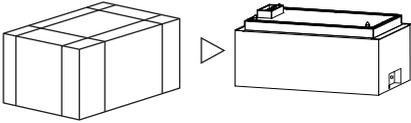
Installation step

1. Unpack

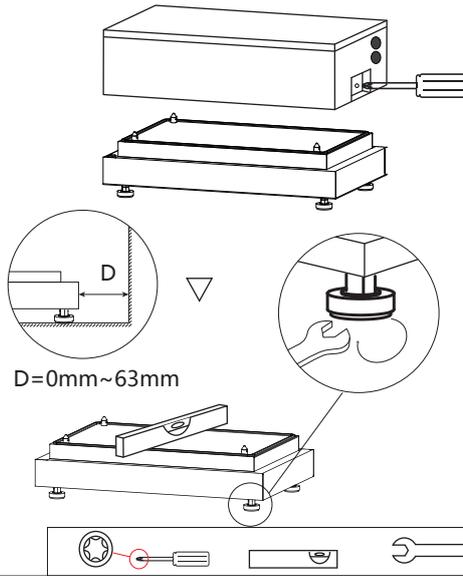
BCU + Base



*n=2, 3, 4 B-Plus H 2.5

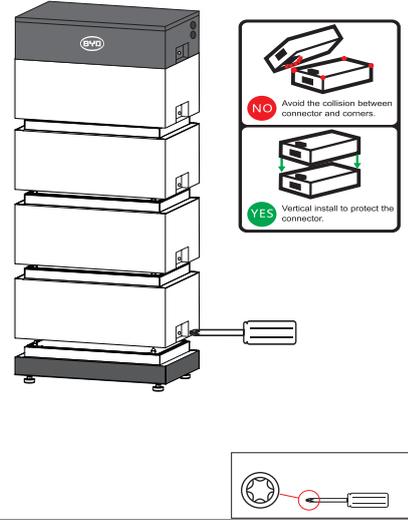


2. Separate base and BCU



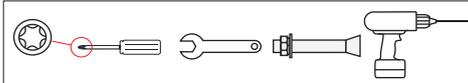
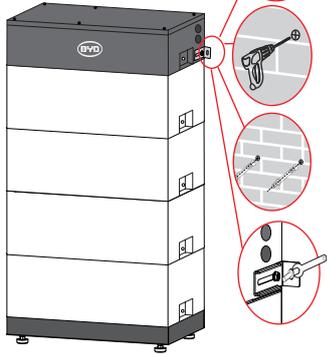
3. Install battery and BCU

Before installing BCU, make sure the system switch is switch off.



4. Install Wall-mount

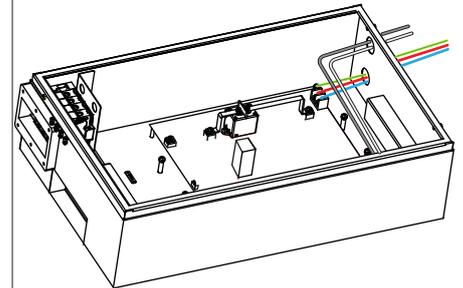
- 4.1 Use a pencil to mark the location of the hole to be drilled.
- 4.2 Remove the BCU, punch holes in the wall with hammer drill.
- 4.3 Install expansion bolt in punched holes.
- 4.4 Install the BCU, then lock the crews and expansion bolt.



5. Open the BCU cover



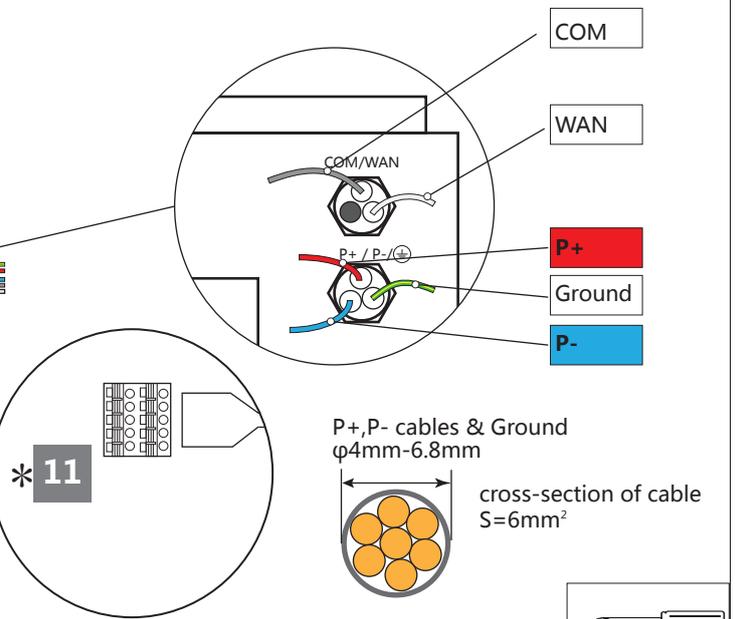
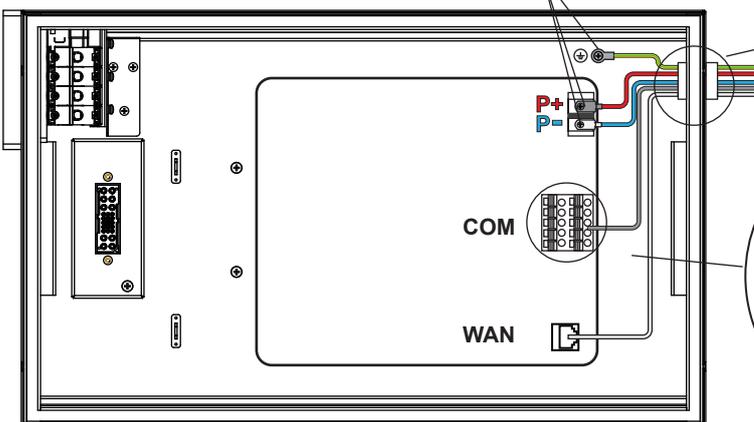
6. BCU internal overview



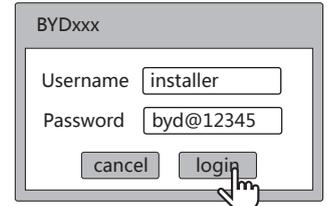
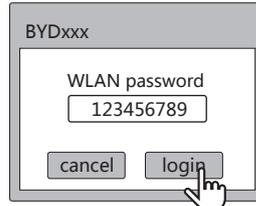
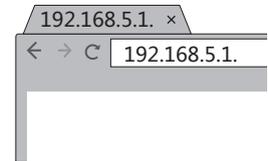
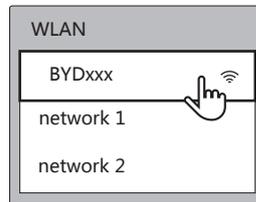
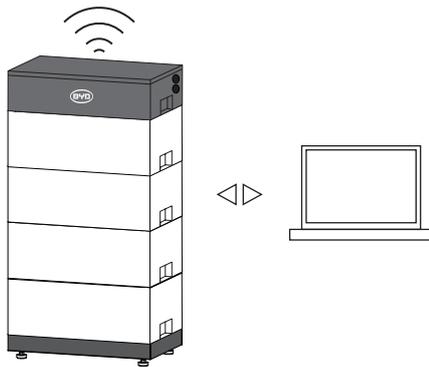
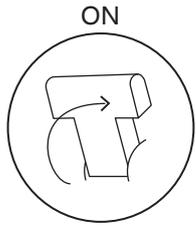
7. Connect cables

Connection sequence of BCU

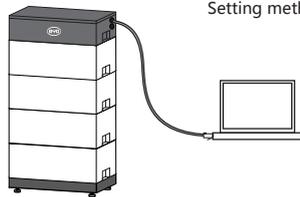
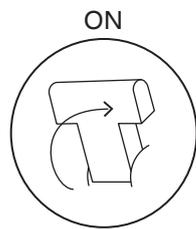
1. Ground cable.
2. Negative cable
3. Positive cable.
4. Communication cable(CAN H, CAN L, EN 11V+, EN 11V-)
5. network cable



8a. Connect with WIFI



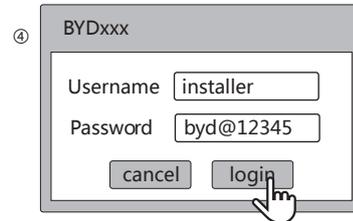
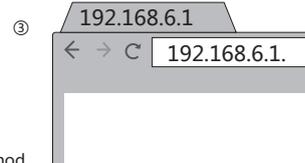
8b. Connect through ethernet cable



- ① Connect the network cable
- ② Set your computer IP into a static IP

IP address:192.168.6.10
Subnet mask:255.255.255.0

Setting method reference computer system setting method



9. User information setting

- Battery-Box HV
- Privacy Policy
- Wizard
- Home
- Device Information
- Installation Config
- Statistics Information
- Current Alarm
- History Alarm
- Run Date
- Set Password
- Update
- Inverter Information
- Reboot and Restore

1 — 2 — 3

STEP 1 — STEP 2 — FINISH & REBOOT

Time and Date * Hour : Min : Day : Month : Year :

Next

1 — 2 — 3

STEP 1 — STEP 2 — FINISH & REBOOT

Server IP Address *

Series Battery Conts *

Inverter *

Country *

Asterisk(*)Indicates required fields

Last Next

⚠ This parameter is important.
If set up incorrectly, it can cause the system to fail to work.

1 — 2 — 3

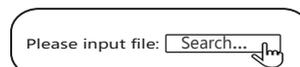
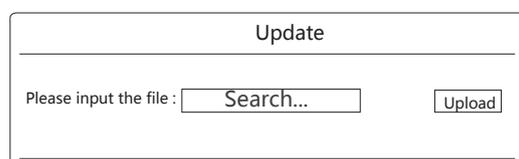
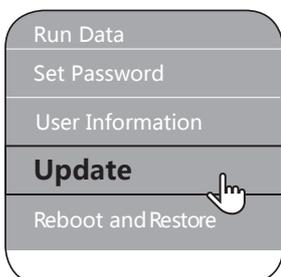
STEP 1 — STEP 2 — FINISH & REBOOT

Reboot System...

Please wait about 50 seconds.

10. Update the firmware

- ☆ Please update the latest software after installation.
- Update software: <https://www.eft-systems.de/us/downloads>



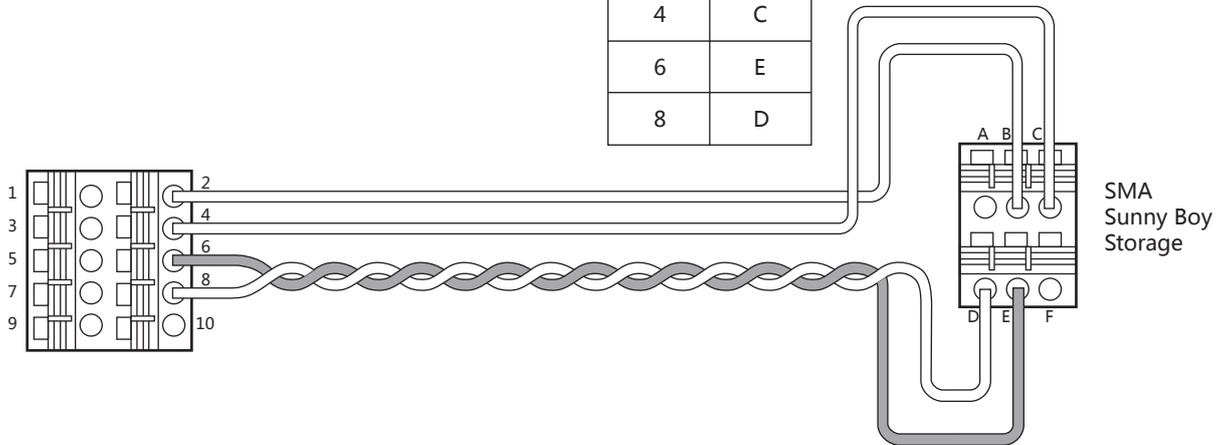
If there is any new version on the server, clicking **UpdateCheck** will update the system.

11 SMA SUNNY BOY STORAGE 3.8/5.0/6.0

The installation method of the inverter may be changed. Please refer to the installation instructions for the inverter.

BYD
Battery-Box SBS

pin	pin
2	B
4	C
6	E
8	D



BYD requires setting the following parameters for the inverter:



No.	SMA Sunny Boy Storage Parameter	
1	Battery-Areas of application-Lower Imt deep disch.Protect area prior shutdown	2%
2	Battery-Areas of application-Minimum width of deep discharge protection area	3%
3	Battery-Areas of application-Area width for conserving battery sate of charge	3%
4	Battery-Areas of application-Minimum width of own consumption area	100%