



High Voltage Battery System

Battery-Box HVE 6.4, 8.5, 10.7, 12.8-1, 12.8-2, 15.0, 17.1-1, 19.2,17.1-2, 19.3, 21.4, 23.5

Quick Start Guide



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Disclaimer ▶

1. Target Group

- Instructions in this document may only be performed by qualified personnel with the following skills:
- Understand how batteries work and operate.
 - Understand the working principle and operation method of the inverter.
 - Know and comply with locally applicable connection requirements, standards and directives.
 - Understand and follow this document and related system documentation, including all safety instructions.
 - Training to handle hazards associated with the installation and operation of electrical equipment and batteries.
 - Training on installation and commissioning of electrical equipment.
 - For personnel engaged in special scenarios such as working at height or operating special equipment, they must be qualified by the local country or region.
 - When installing ≥ 3 modules, tools (lifting devices or ladders) must be used for installation.

2. Firefighting measures

2.1 Extinguishing media

- **Small fire** Sand, carbon dioxide (CO₂), Foam extinguisher
- **Large fire** Foam extinguisher

2.2 Fire precautions and protective measures

Flammable properties	Lithium ion batteries contain flammable liquid electrolyte that may vent,ignite and produce sparks when subjected to high temperature (> 150℃),when damaged or abused (e.g.,mechanical damage or electrical overcharge). Burning cells can ignite other batteries in close proximity. Throw into the fire will result in burning.
Explosion data	Extreme mechanical abuse will result in rupture of the batteries.
Special protective equipment for firefighters	In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.
NFPA	Health:0 Flammability:1 Instability:0

Configure the Battery System

Through the APP, you can realize intelligent battery management, including remote data monitoring, firmware upgrade and troubleshooting.

- Android users : Search for “BYD Energy” on Google Play.
- iPhone users : Search for “BYD Energy” in the App Store



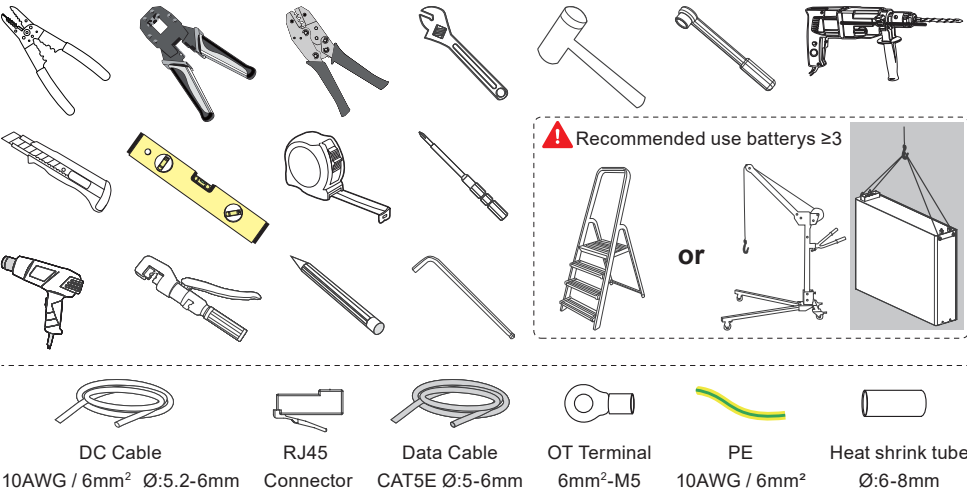
Configuration steps:



For detailed configuration steps, please refer to the user manual and APP instructions,
Website: www.bydenery.com.

Requirements for Installation

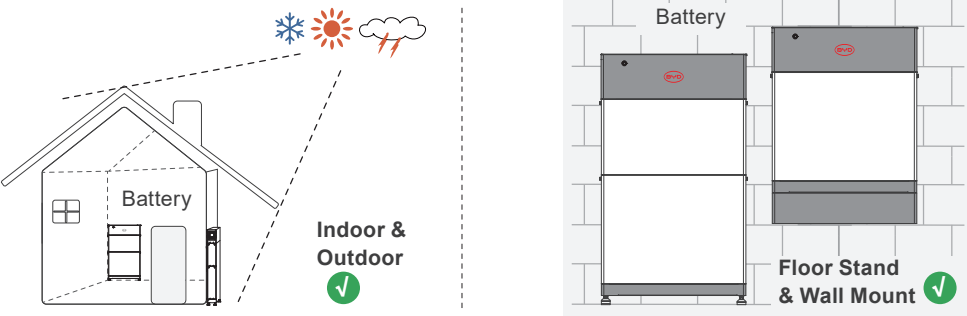
1. Tools & Additional Accessories (not included in the scope of delivery)



2. Safety Gear & Required Personnel

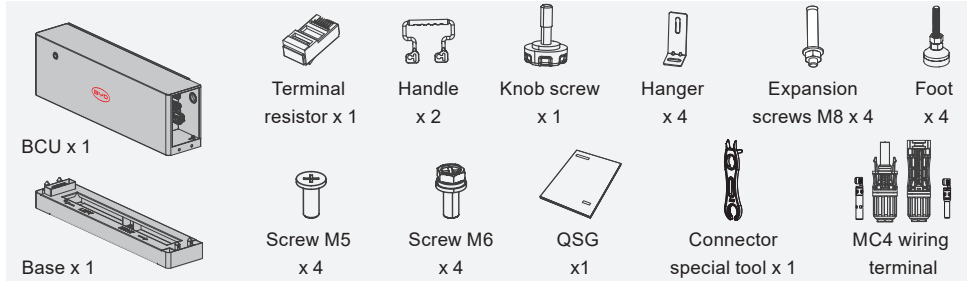


3. Installation Scene & Installation Mode

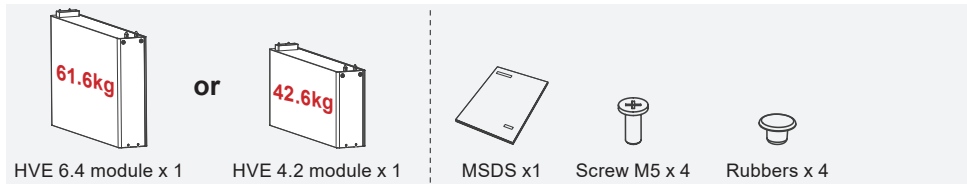


Scope of Delivery

1. BCU + Base



2. Battery Module

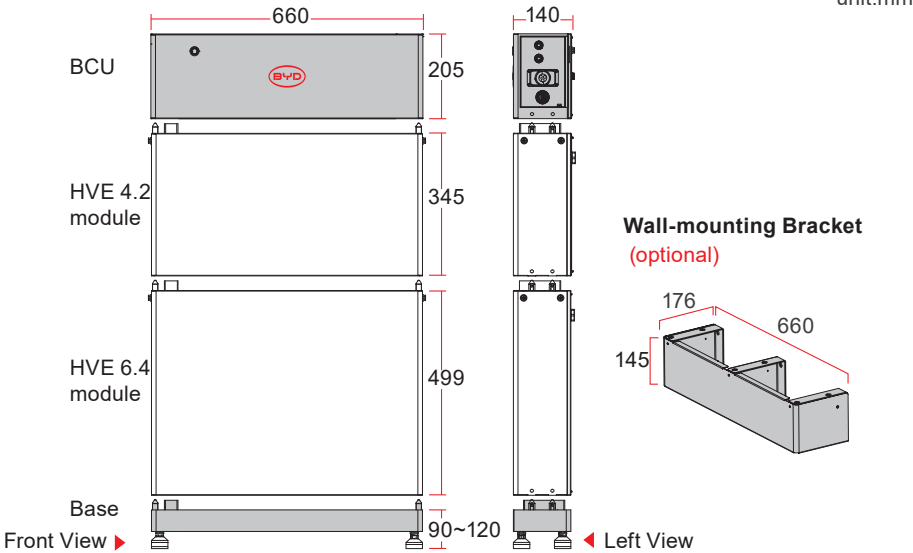


3. Optional Accessories

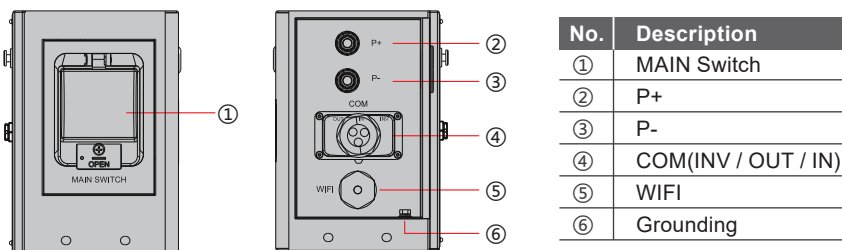


Battery System Overview

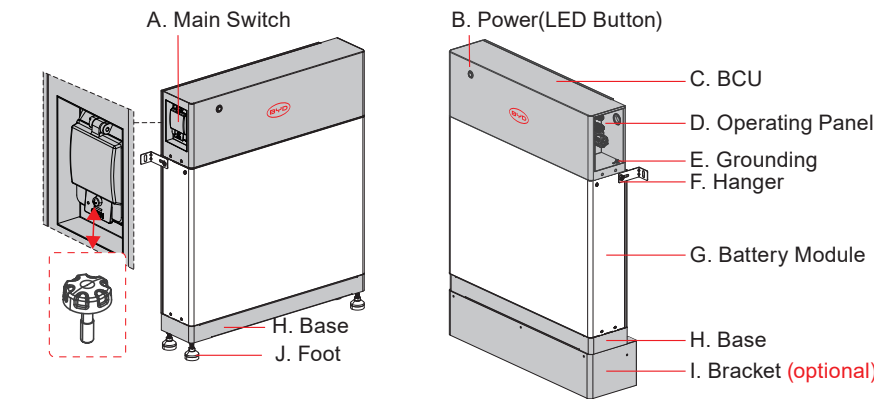
1. Structure Dimension Drawing



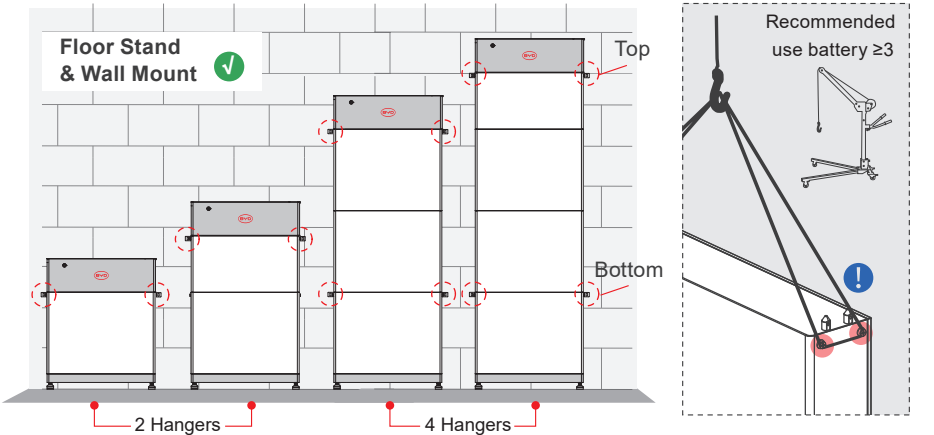
2. Functional Area Overview



3. Battery System Description



4. Quantity and location of hanger



- ⚠ Please install on top and/or bottom battery!
- ⚠ When ≥ 3 modules are installed, 4 hangers must be used!

The bearing capacity of the ground must be greater than or equal to 800kg/m^2



The battery system doesn't have a wireless communication function. Through the USB, the battery system supports the expansion of connection with the Smart WiFi/LAN Module to implement the wireless function, and the Smart WiFi/LAN Module had obtained individual cyber security certification in accordance with EN 18031 series.

- * Data Cable & terminal resistor are used for parallel connection.
- * Connect terminal resistor, Plug the terminal resistor into the "IN" port of the master module and the "OUT" port of the last slave module.

The diagram illustrates two wiring configurations for the Power-Box, showing the connection between the HVE, Battery Inverter, and the Power-Box unit.

Left Configuration (TH5~15K):

- HVE:** 12345678
- Battery Inverter:**

PIN	PIN
4	4
5	5
- Power-Box TH5~15K:** 12345678

Right Configuration (SH3~6K):

- HVE:** 12345678
- Battery Inverter:**

PIN	PIN
4	3
5	4
- Power-Box SH3~6K:** 12345678