EN-QSG Jun-2025 Version1.1

High Voltage Battery System

Battery-Box

HVB 5.9, 8.9, 11.8, 14.8, 17.8, 20.7, 23.7, 26.7, 29.6 HVM+ 8.3, 11.0, 13.8, 16.6, 19.3, 22.1 HVS+ 5.1, 7.7, 10.2, 12.8

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 instruc-
- 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.

2. Firefighting measures

2.1 Extinguishing media

Dry powder, sand, carbon dioxide (CO₂), water spray Small fire

 Large fire Water spray

2.2 Fire precautions and protective measures

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





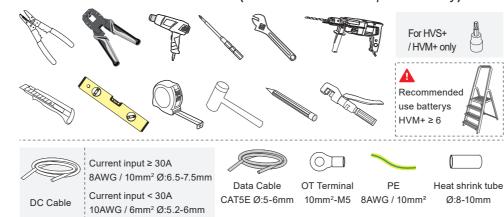


For detailed configuration steps, please refer to the user manual and APP instructions,

Website: www.bydenergy.com.

Requirements for Installation

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



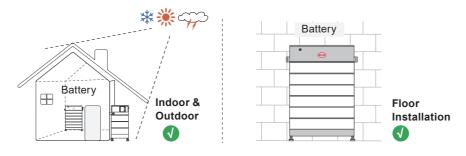
2. Safety Gear & Required Personnel



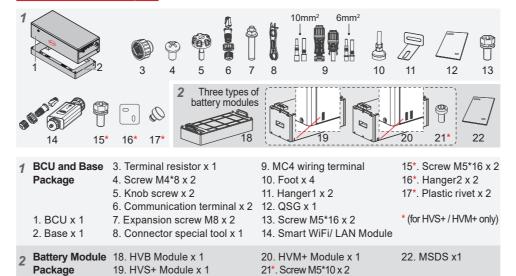




3. Installation Scene & Installation Mode

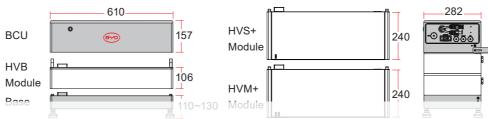


Scope of Delivery



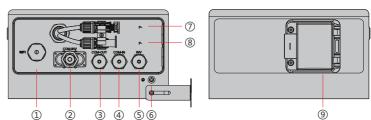
Battery System Overview

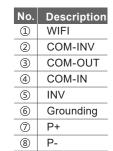
1. Structure Dimension Drawing



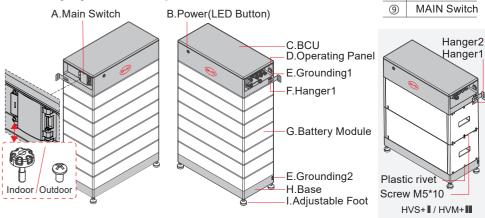
unit-mm

2. Functional Area Overview

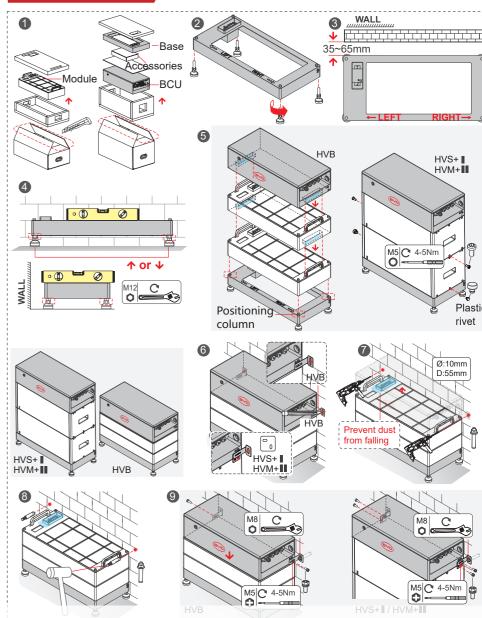




3. Battery System Description



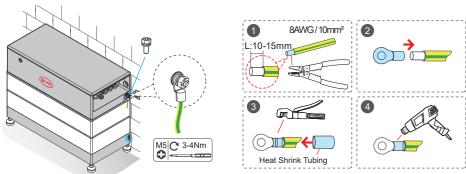
Floor Installation





Electrical Connection

1. Connecting the PE

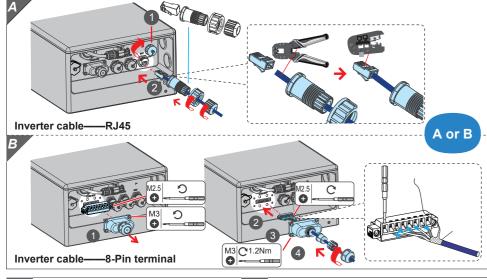


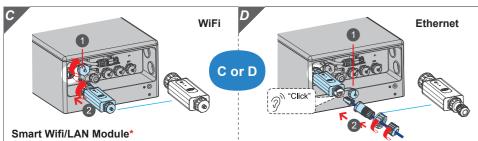
2. Connection Diagram

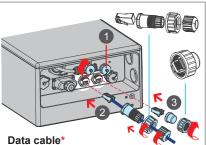


No.	1	2	3	4	5	6	7	8
INV	RS485A	RS485B	IGND	CAN_H	CAN_L	NC	PCS_EN+	PCS_EN-
IN/OUT	Unused	Unused	Unused	Unused	Unused	Unused	CAN_L	CAN_H
COM-INV	CAN_H	CAN_L	IGND	NC	PCS_EN+	PCS_EN-	RS485B	RS485A

3. Connecting the Inverter cable, Smart Wifi/LAN Module* and Data cable*



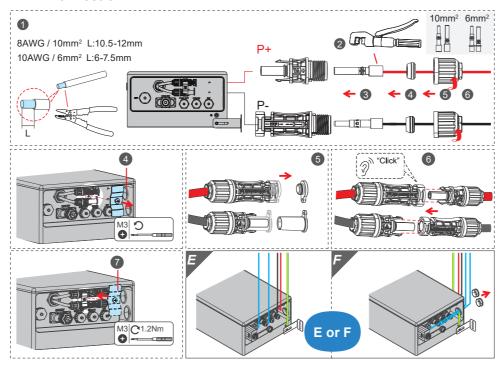




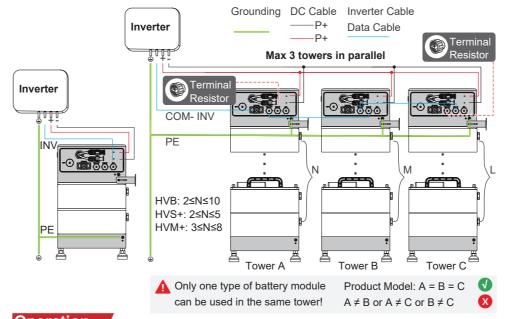
- The battery system doesn't have a wireless communication function. Through the USB, the battery system supports the expansion of connection with the Smart WiFi/LAN Module to implement the wireless function, and the Smart WiFi/ LAN Module had obtained individual cyber security certification in accordance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

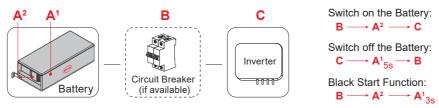
4. DC Connection





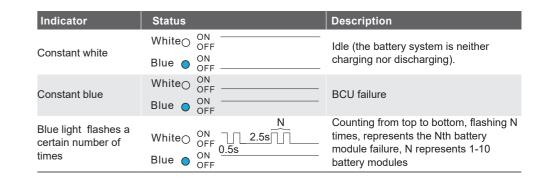


Operation

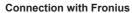


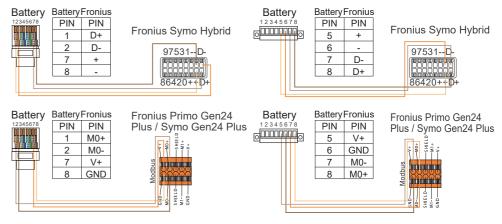
LED Signals

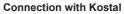
Indicator	Status	Description
Flashing white and blue alternatively	WhiteO ON OFF 0.5s Blue O OFF OFF	The battery system is initiating
Flashing white slowly	WhiteO ON OFF 2s Slue ON OFF	The battery system is charging
White light flashing	WhiteO ON OFF 1s SILL ON OFF	The battery system is discharging

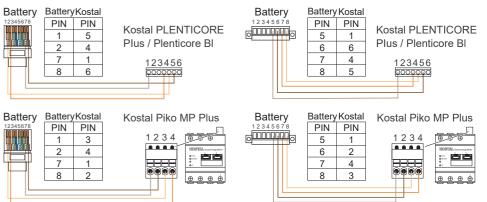


Connection Options with Inverters









Connection with Kaco