

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



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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

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

• Large fire Water spray

2.2 Fire precautions and protective measures Lithium ion batteries contain flammable liquid electrolyte that may vent,iq-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. Extreme mechanical abuse will result in rupture of the batteries. **Explosion data** Throw into the fire will result in burning. Special protective In the event of a fire, wear full protective clothing and self-contained equipment for firefighters 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









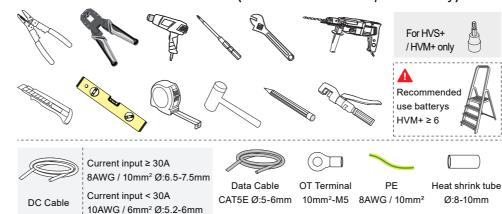
Configuration steps:



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

Requirements for Installation

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

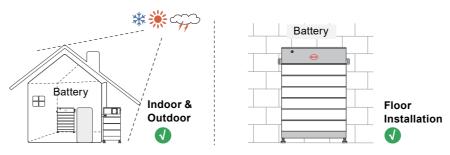


2. Safety Gear & Required Personnel

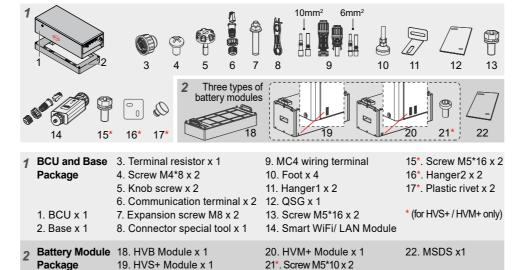




3. Installation Scene & Installation Mode

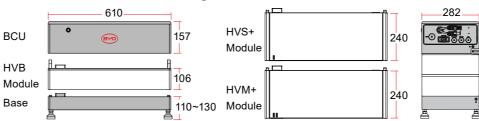


Scope of Delivery



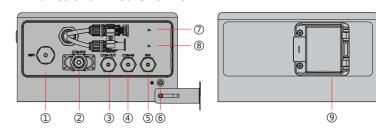
Battery System Overview

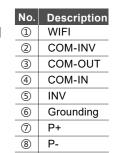
1. Structure Dimension Drawing



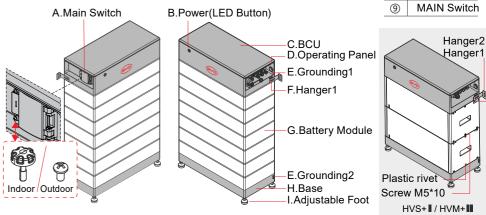
unit-mm

2. Functional Area Overview

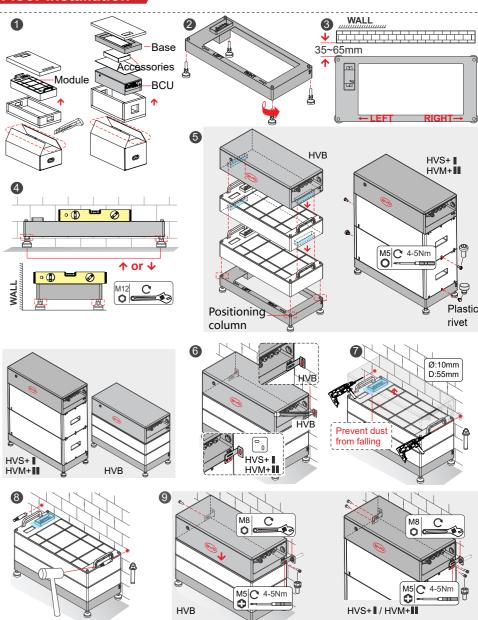




3. Battery System Description

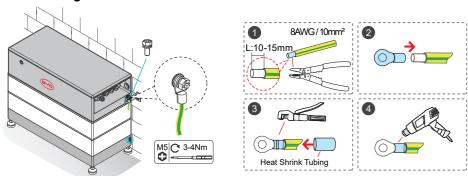


Floor Installation



Electrical Connection

1. Connecting the PE

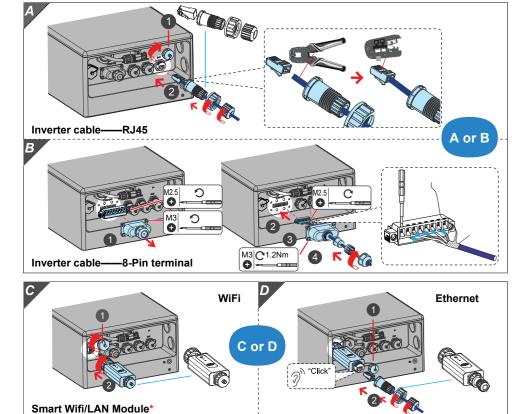


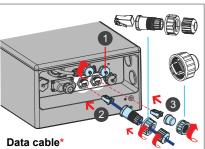
2. Connection Diagram



	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*

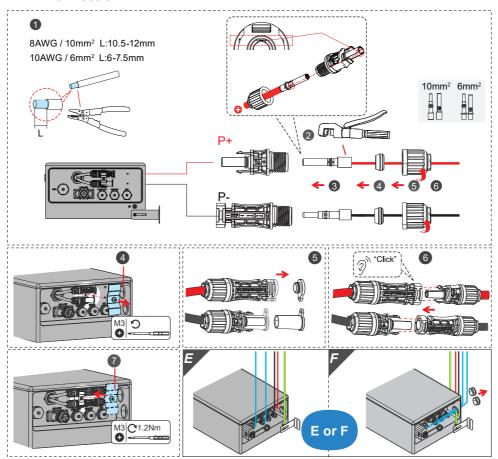




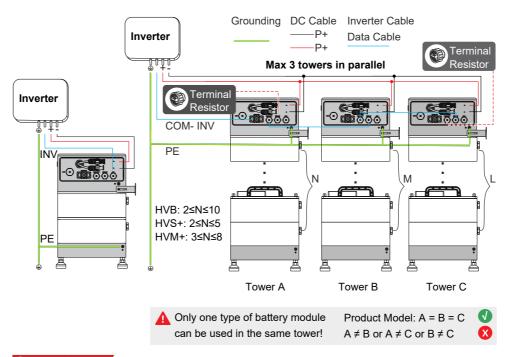
- The battery system doesn't have a wireless communication function. Through the USB, the battery system supports the expansion of connection with the Smart WiFi/LAN Module to implement the wireless function, and the Smart WiFi/ LAN Module had obtained individual cyber security certification in accordance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

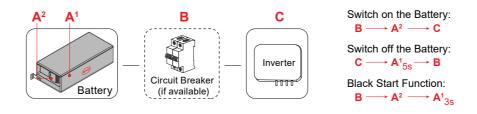
4. DC Connection



Systems Connection



Operation

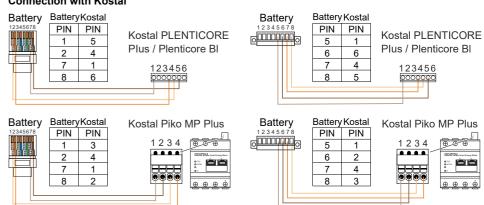


LED Signals

Indicator	Status	Description	
Flashing white and	WhiteO OFF OFF	The heattern constant is initiating	
blue alternatively	Blue OFF ON OFF	The battery system is initiating	
lashing white elevely	White ON 2s 2s	The bettery evetem is charging	
Flashing white slowly	Blue ON OFF	The battery system is charging	
White light flashing	WhiteO OFF 1s	The battery system is discharging	
write light hashing	Blue ON OFF		
0	WhiteO ON OFF	Idle (the battery system is neither	
constant white	Blue ON OFF	charging nor discharging).	
onstant blue	WhiteO ON OFF	BCU failure	
Constant blue	Blue ON OFF	BCO fallule	
lue light flashes a	White⊖ ON ☐ 2.5s☐ ☐	Counting from top to bottom, flashing N times, represents the Nth battery	
certain number of times	OFF 0.5s	module failure, N represents 1-10	
unes	Blue OFF	battery modules	

Connection Options with Inverters

Connection with Kostal



Connection with Kaco

