



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 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.

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

Flammable properties Lithium ion batteries contain flammable liquid electrolyte that may vent, ignite 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. Throw into the fire will result in burning.

Explosion data

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.

Special protective equipment for firefighters

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:



iOS

Android

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

Requirements for Installation

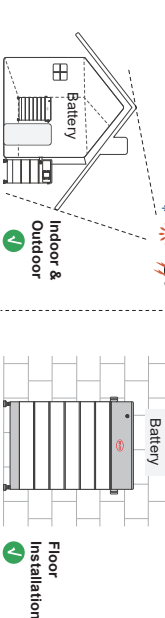
1. Tools & Additional Accessories (not included in the scope of delivery)



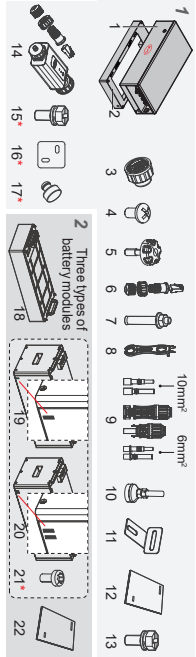
2. Safety Gear & Required Personnel



3. Installation Scene & Installation Mode

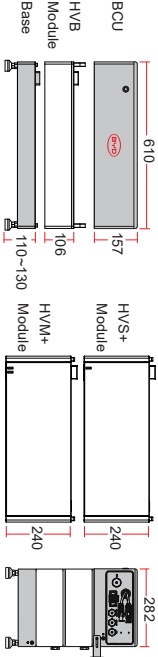


Scope of Delivery

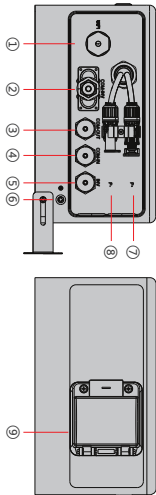


1 BCU and Base Package	3. Terminal resistor x 1	9. MC4 wiring terminal	15. * Screw M5*16 x 2
1. BCU x 1	4. Screw M4*8 x 2	10. Foot x 4	16. * Hanger2 x 2
2. Base x 1	5. Knob screw x 2	11. Hanger1 x 2	17. * Plastic rivet x 2
	6. Communication terminal x 2	12. QSG x 1	
	7. Expansion screw M8 x 2	13. Screw M5*16 x 2	
	8. Connector special tool x 1	14. Smart WiFi/ LAN Module	
2 Battery Module Package	18. HVB Module x 1	20. HVM+ Module x 1	22. MSDS x1
	19. HVS+ Module x 1	21. * Screw M5*10 x 2	

Battery System Overview



2. Functional Area Overview



3. Battery System Description

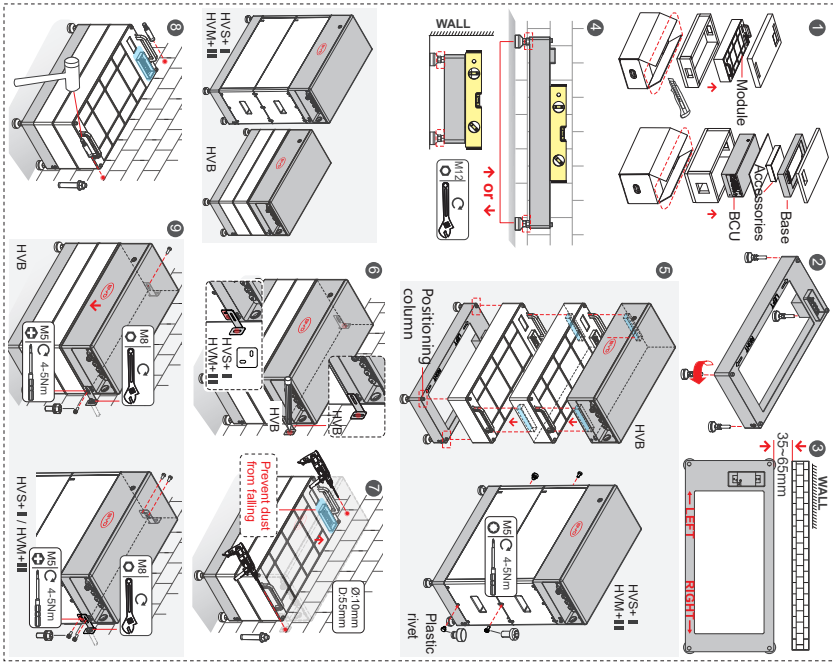
A. Main Switch

B. Power(LED Button)



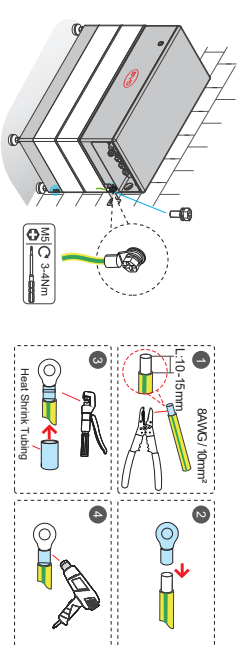
No.	Description
①	WiFi
②	COM-INV
③	COM-OUT
④	COM-IN
⑤	INV
⑥	Grounding
⑦	P+
⑧	P-
⑨	MAIN Switch

Floor Installation



Electrical Connection

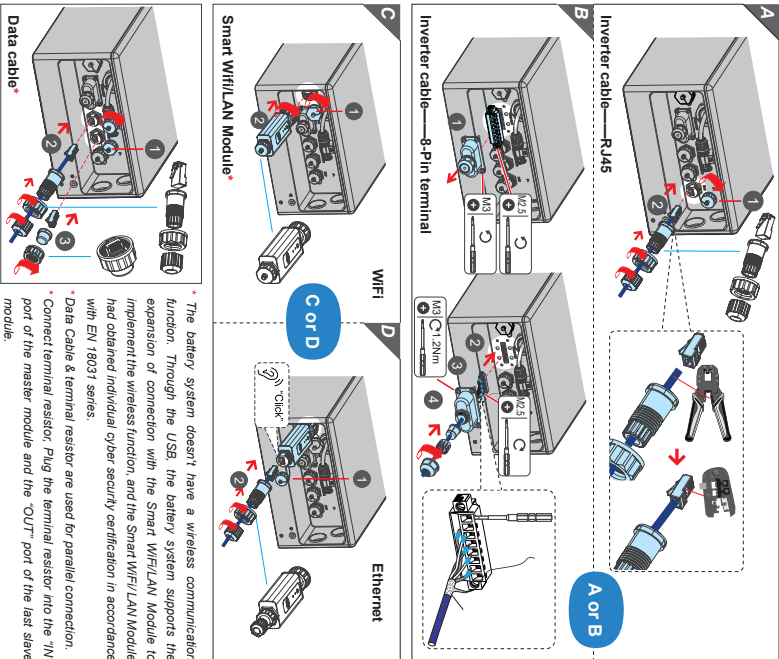
1. Connecting the PE



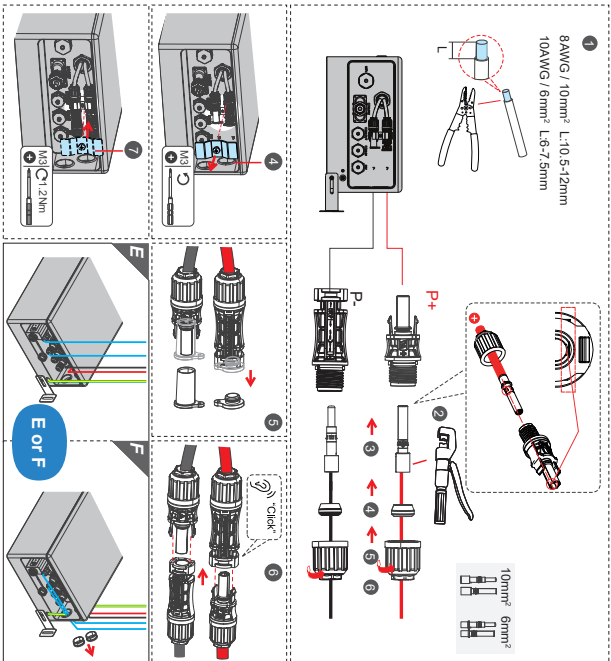
2. Connection Diagram

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

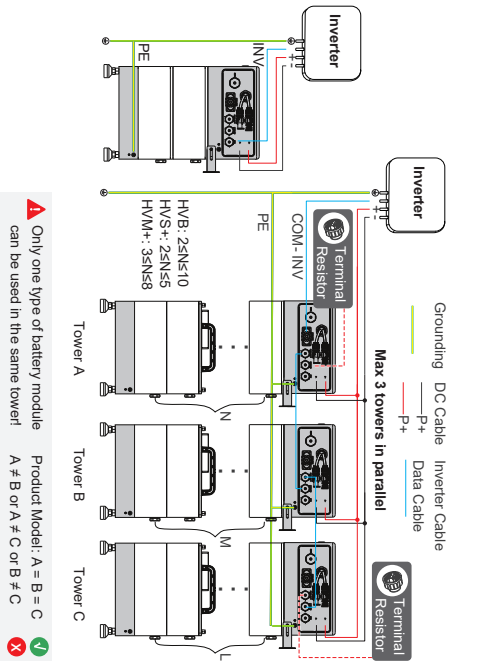
3. Connecting the Inverter cable, Smart WiFI/LAN Module* and Data cable*



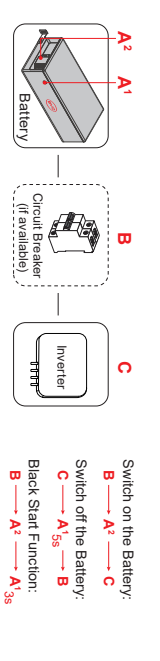
4. DC Connection



Systems Connection



Operation



LED Signals

Indicator	Status	Description
Flashing white and blue alternatively	White: ON Blue: OFF 0.5s	The battery system is initiating
Flashing white slowly	White: ON Blue: OFF 2s	The battery system is charging
White light flashing	White: ON Blue: OFF 1s	The battery system is discharging
Constant white	White: ON Blue: OFF	Idle (the battery system is neither charging nor discharging).
Constant blue	White: OFF Blue: ON	BCU failure
Blue light flashes a certain number of times	White: ON Blue: OFF 0.5s N	Counting from top to bottom, flashing N times, represents the Nth battery module failure, N represents 1-10 battery modules

Connection Options with Inverters

