



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.

Explosion data Extreme mechanical abuse will result in rupture of the batteries. Throw into the fire will result in burning.

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



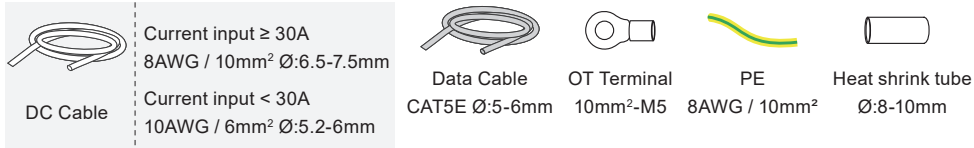
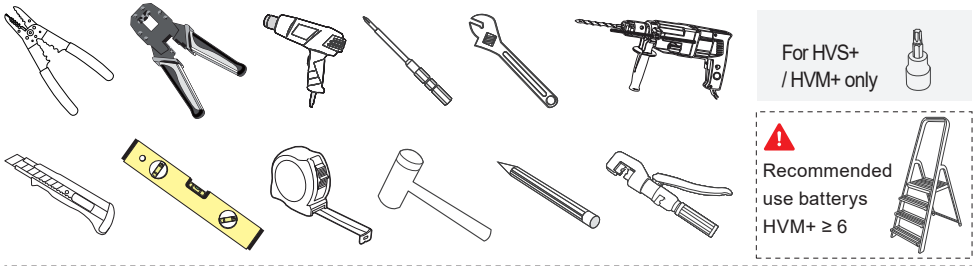
Configuration steps:



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

Requirements for Installation

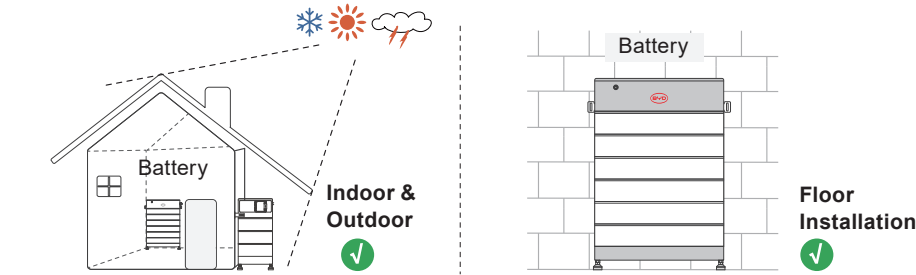
1. Tools & Additional Accessories (not included in the scope of delivery)



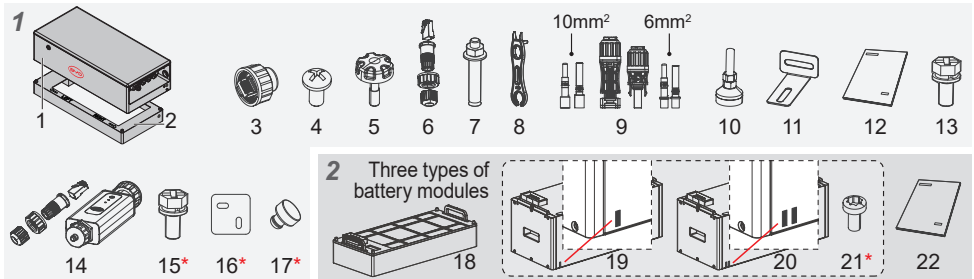
2. Safety Gear & Required Personnel



3. Installation Scene & Installation Mode



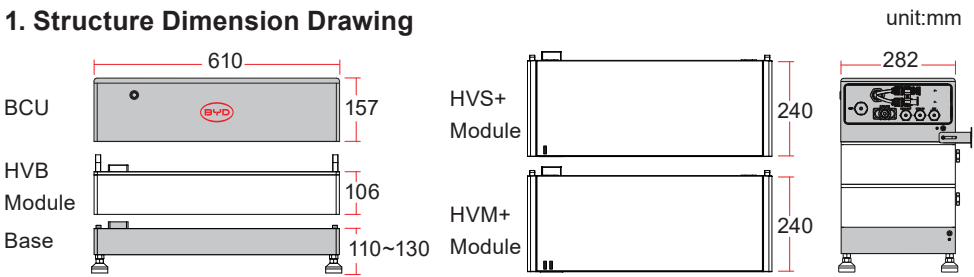
Scope of Delivery



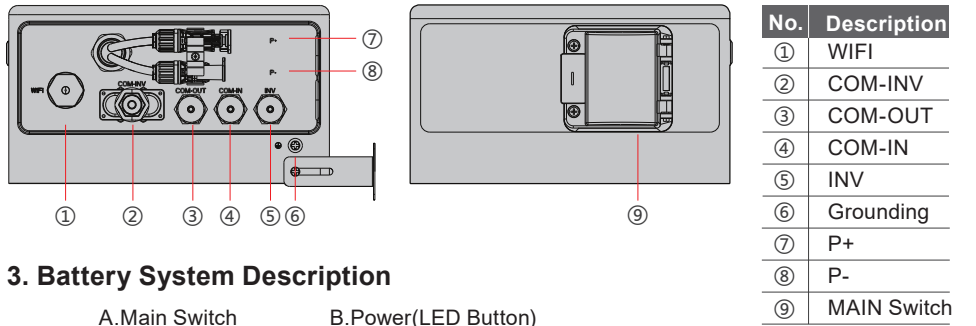
1 BCU and Base Package 1. BCU x 1 2. Base x 1	3. Terminal resistor x 1 4. Screw M4*8 x 2 5. Knob screw x 2 6. Communication terminal x 2 7. Expansion screw M8 x 2 8. Connector special tool x 1	9. MC4 wiring terminal 10. Foot x 4 11. Hanger1 x 2 12. QSG x 1 13. Screw M5*16 x 2 14. Smart WiFi/ LAN Module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

Battery System Overview

1. Structure Dimension Drawing

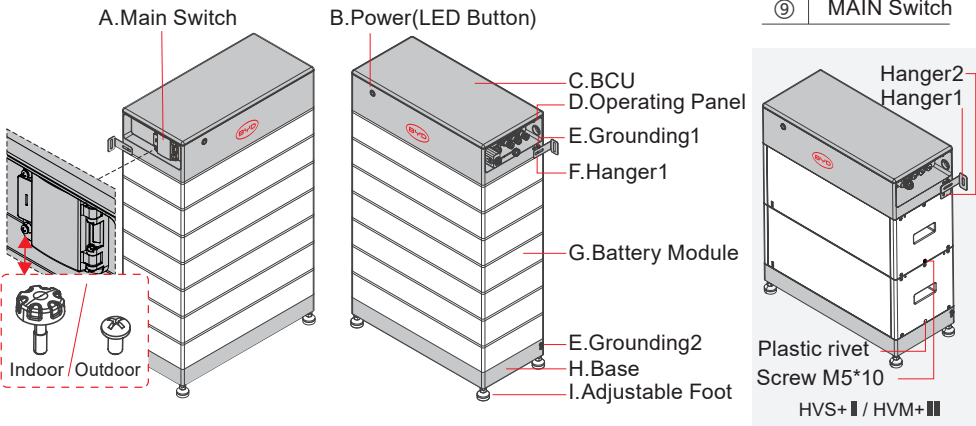


2. Functional Area Overview

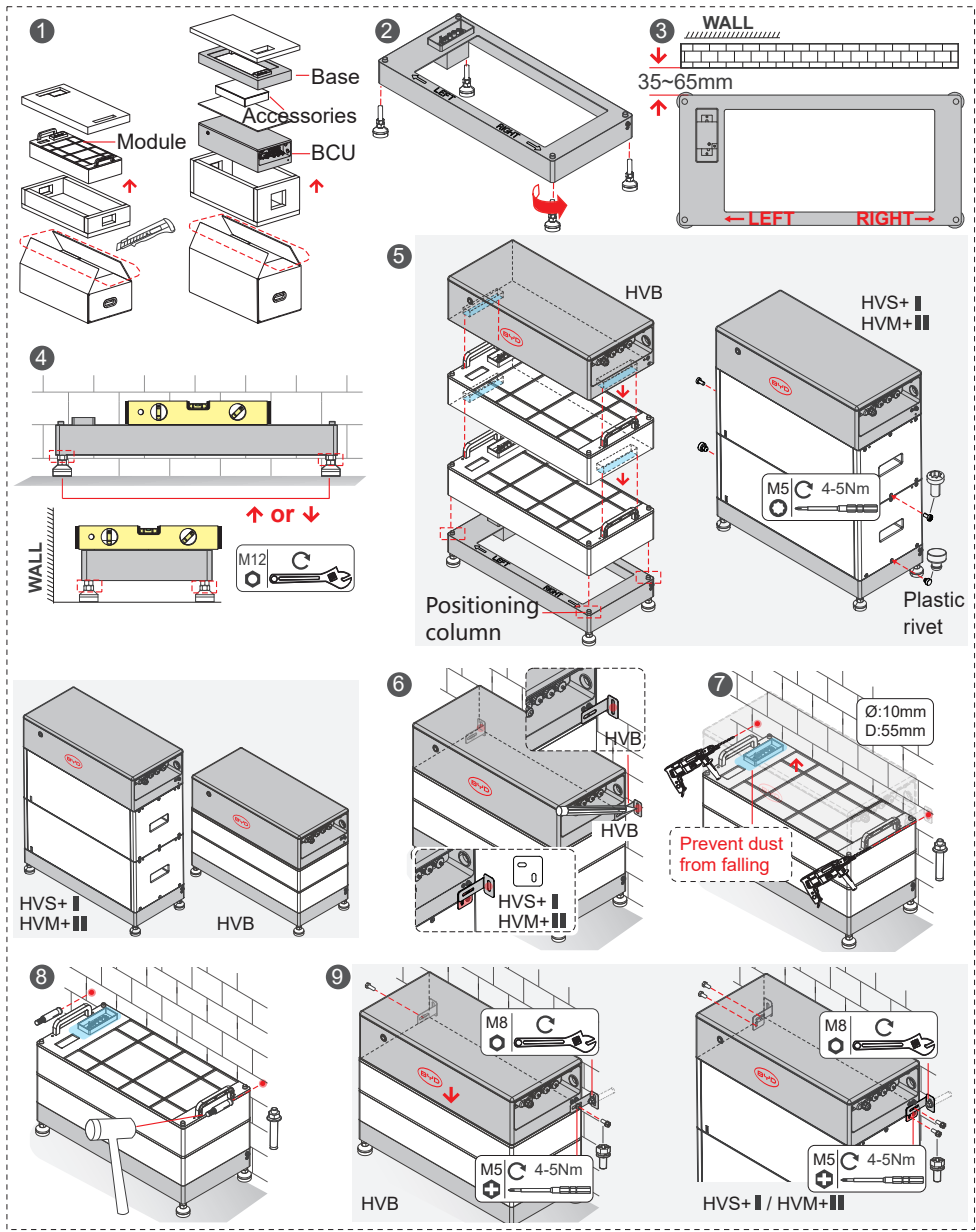


No.	Description
①	WIFI
②	COM-INV
③	COM-OUT
④	COM-IN
⑤	INV
⑥	Grounding
⑦	P+
⑧	P-
⑨	MAIN Switch

3. Battery System Description

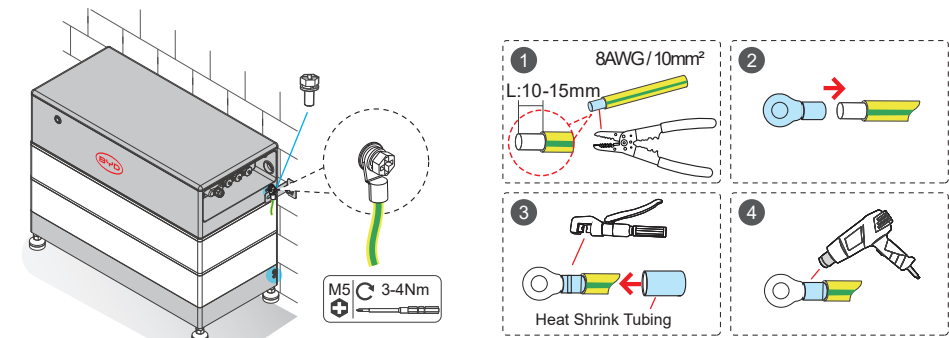


Floor Installation

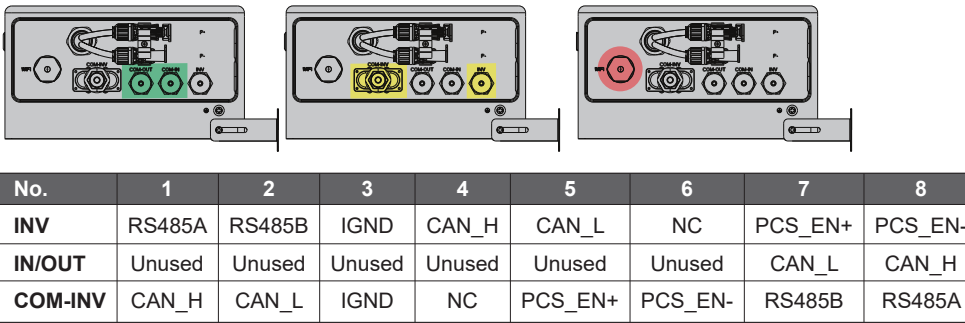


Electrical Connection

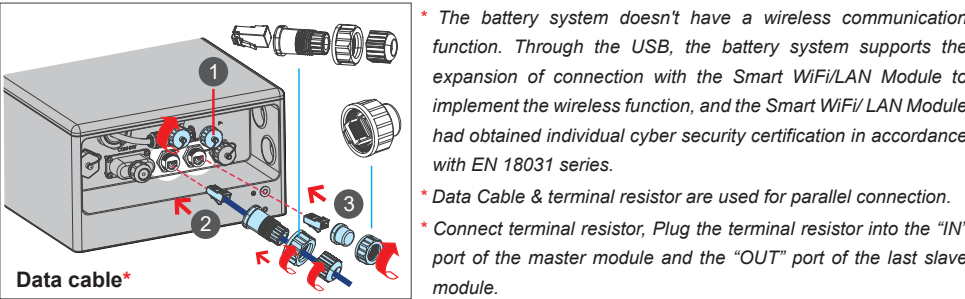
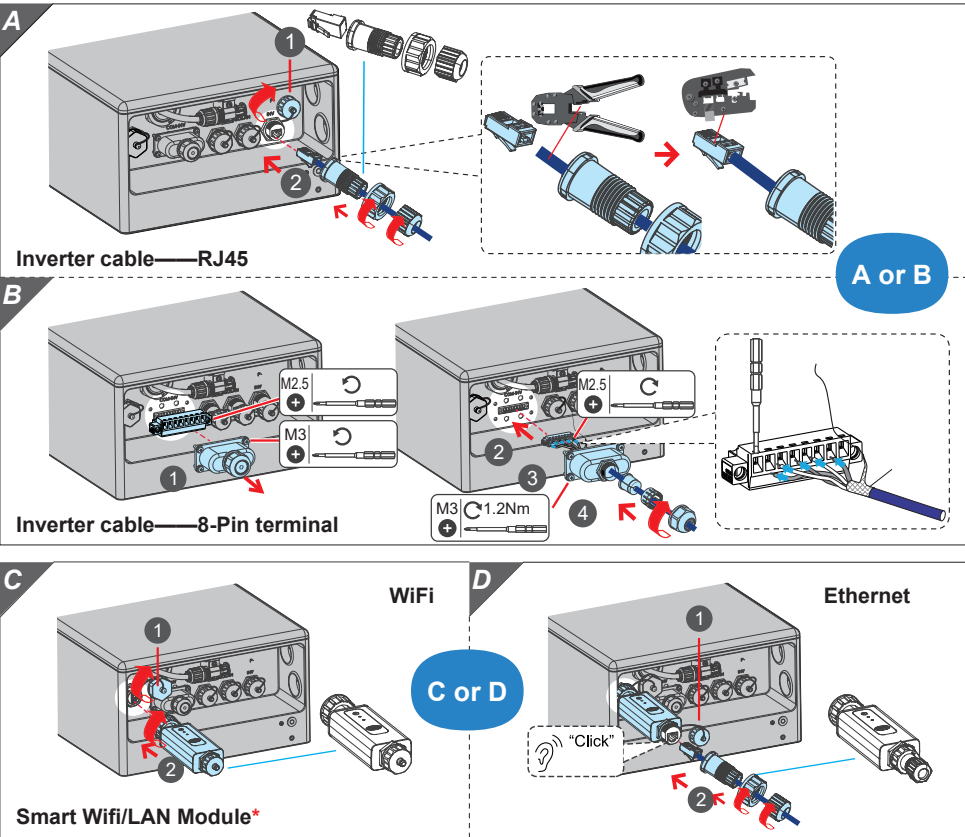
1. Connecting the PE



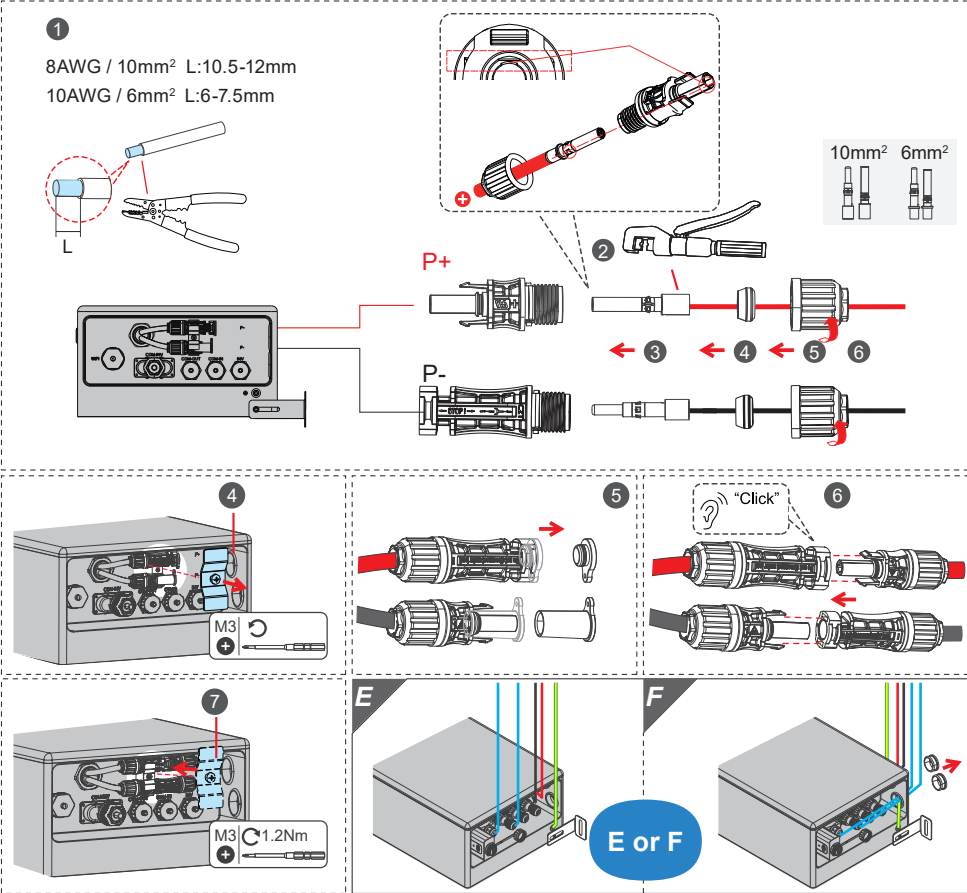
2. Connection Diagram



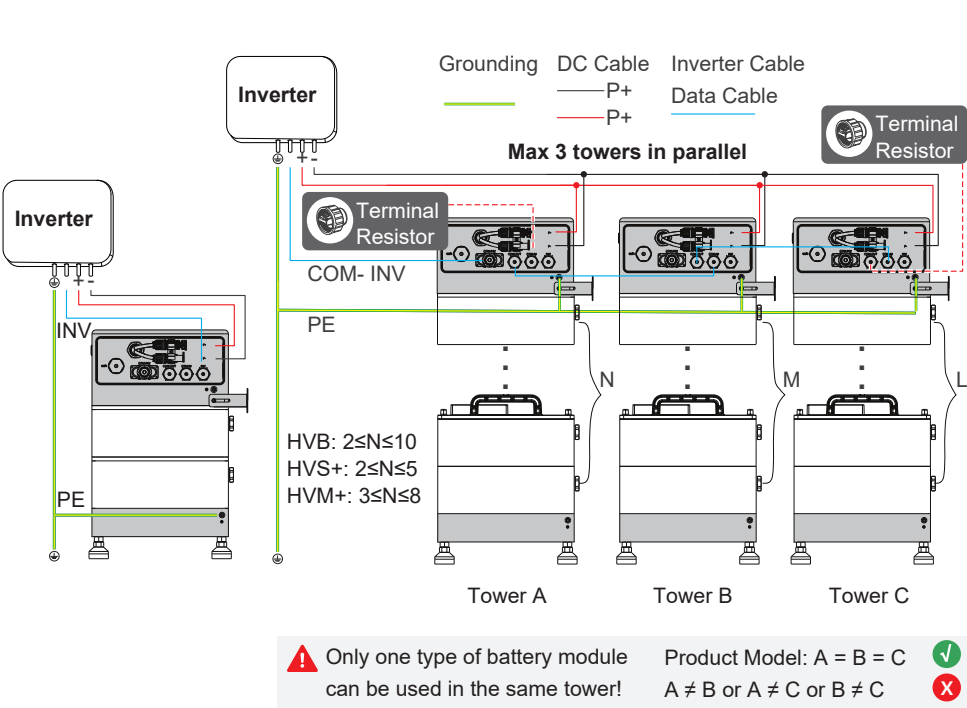
3. Connecting the Inverter cable, Smart Wifi/LAN Module* and Data cable*



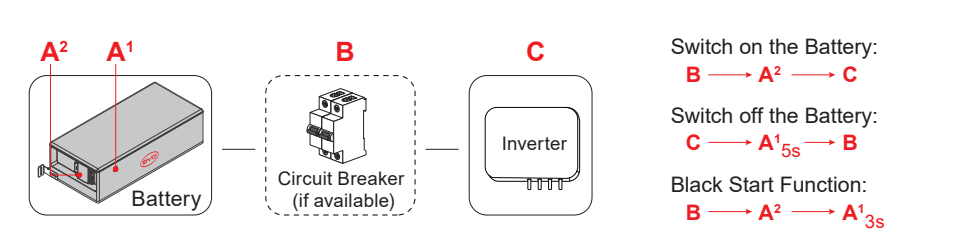
4. DC Connection



Systems Connection



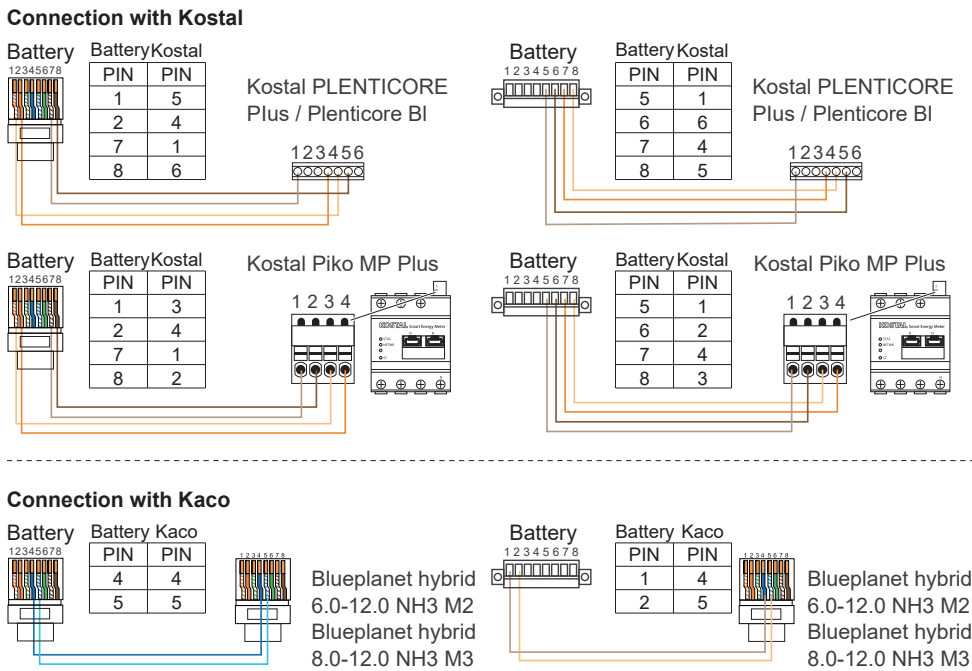
Operation



LED Signals

Indicator	Status	Description
Flashing white and blue alternatively	White ON OFF 0.5s	The battery system is initiating
	Blue ON OFF 0.5s	
Flashing white slowly	White ON OFF 2s	The battery system is charging
	Blue ON OFF 2s	
White light flashing	White ON OFF 1s	The battery system is discharging
	Blue ON OFF 1s	
Constant white	White ON OFF	Idle (the battery system is neither charging nor discharging).
	Blue ON OFF	
Constant blue	White ON OFF	BCU failure
	Blue ON OFF	
Blue light flashes a certain number of times	White ON OFF 2.5s	Counting from top to bottom, flashing N times, represents the Nth battery module failure, N represents 1-10 battery modules
	Blue ON OFF 0.5s	

Connection Options with Inverters



Connection with Kaco

