



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



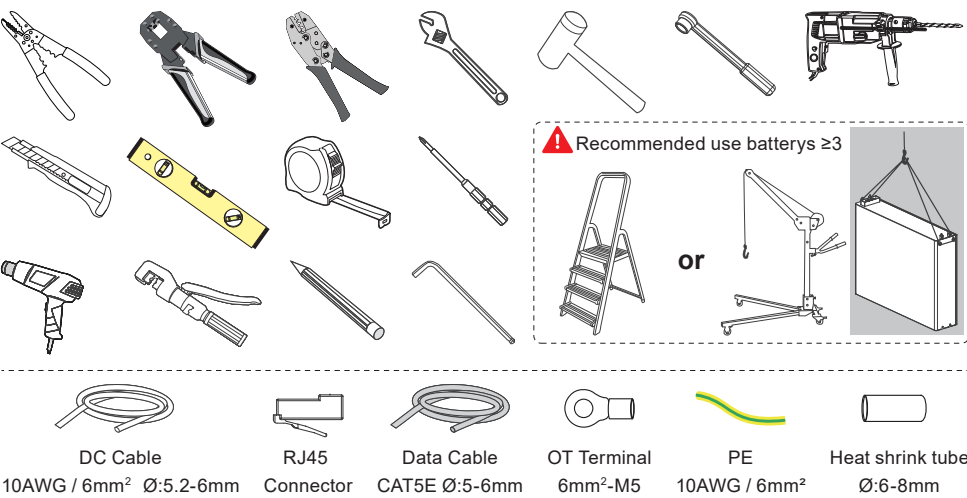
Configuration steps:



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

Requirements for Installation

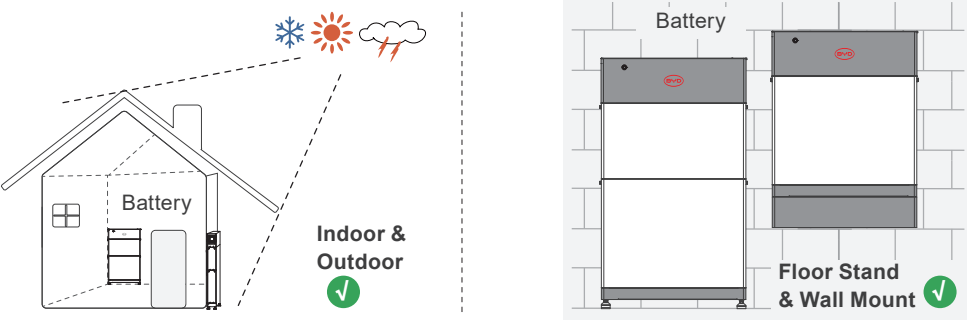
1. Tools & Additional Accessories (not included in the scope of delivery)



2. Safety Gear & Required Personnel



3. Installation Scene & Installation Mode

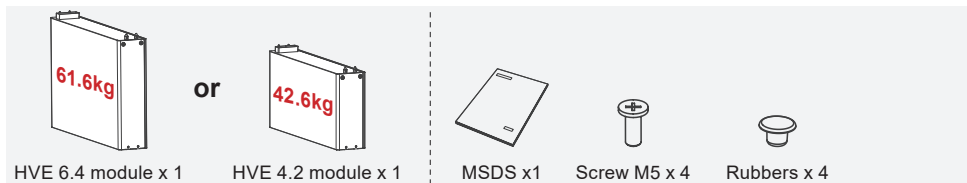


Scope of Delivery

1. BCU + Base



2. Battery Module

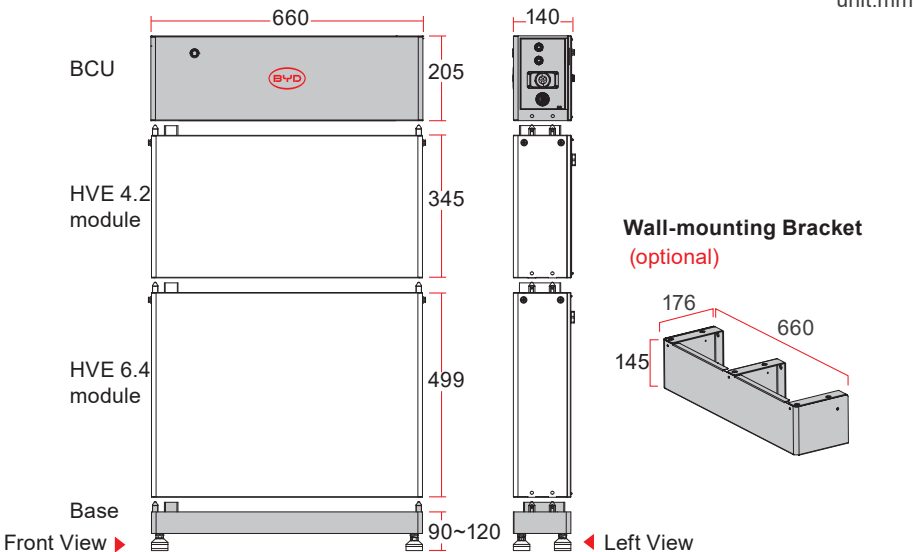


3. Optional Accessories

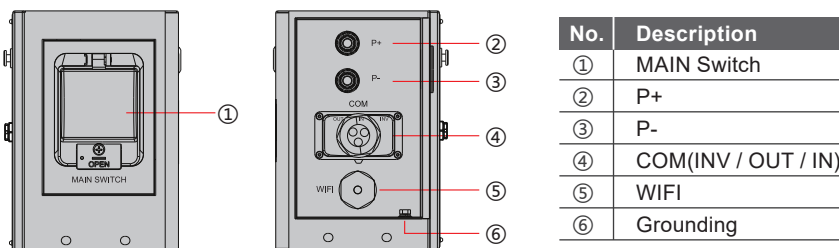


Battery System Overview

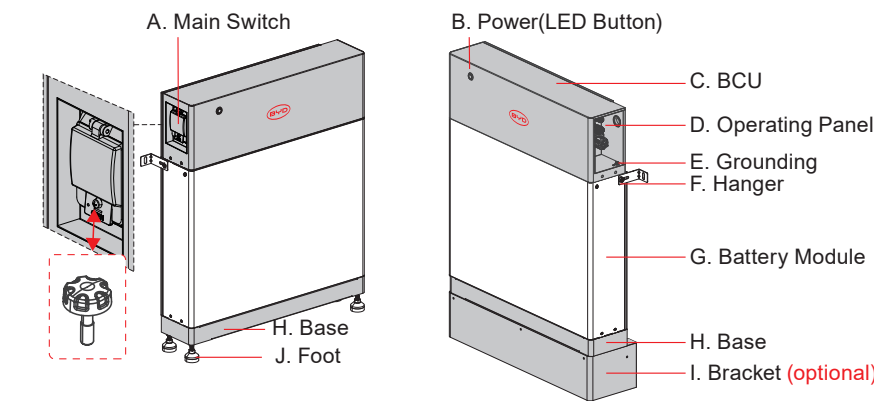
1. Structure Dimension Drawing



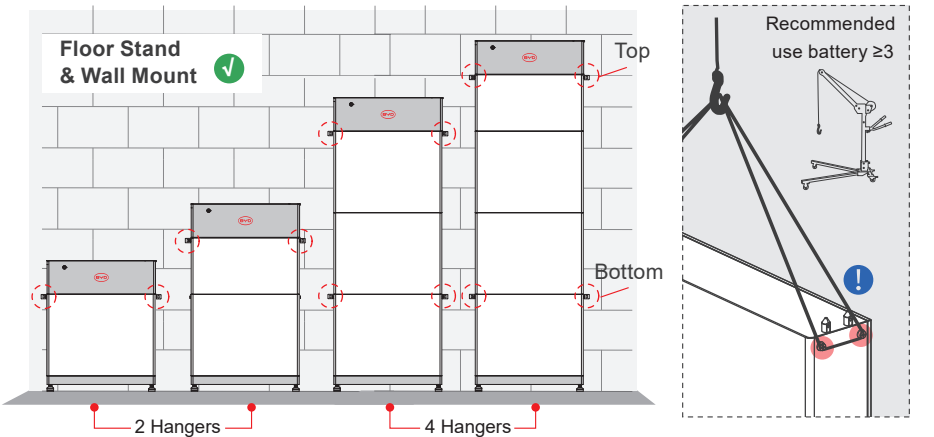
2. Functional Area Overview



3. Battery System Description

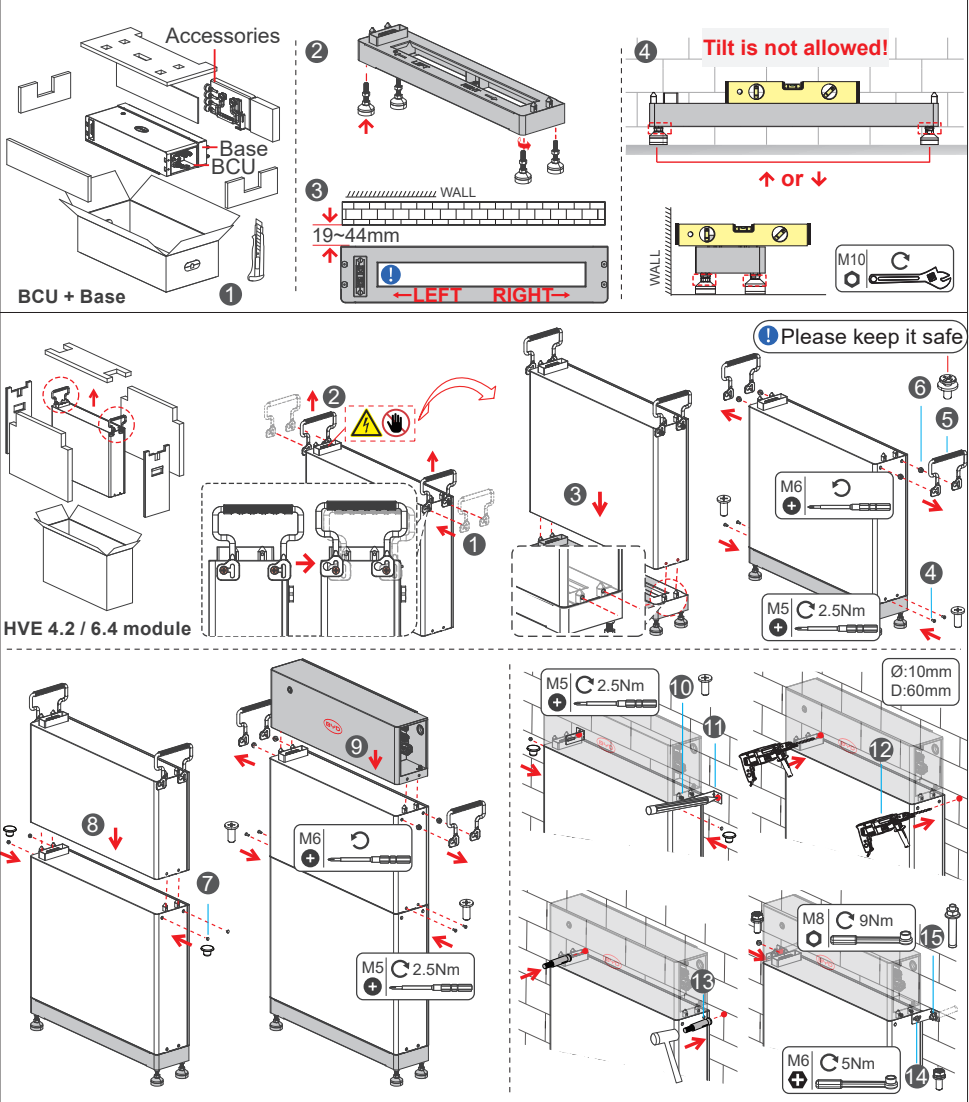


4. Quantity and location of hanger

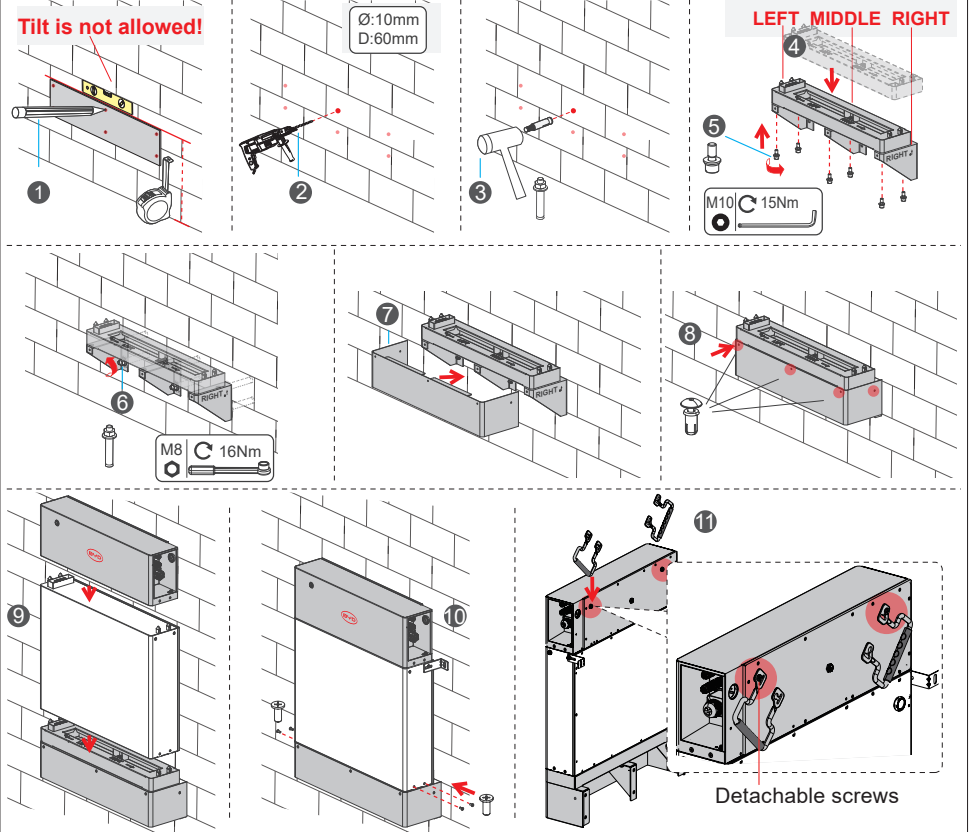


- ⚠ Please install on top and/or bottom battery!
- ⚠ When ≥ 3 modules are installed, 4 hangers must be used!

Floor Installation The bearing capacity of the ground must be greater than or equal to 800kg/m²

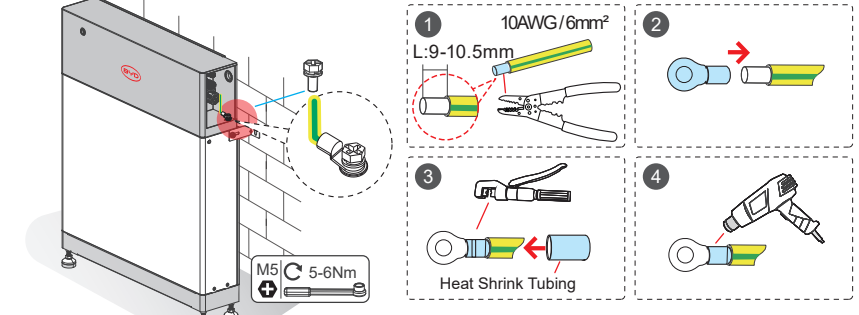


Wall Mount (Optional) Concrete walls and brick walls are recommended!

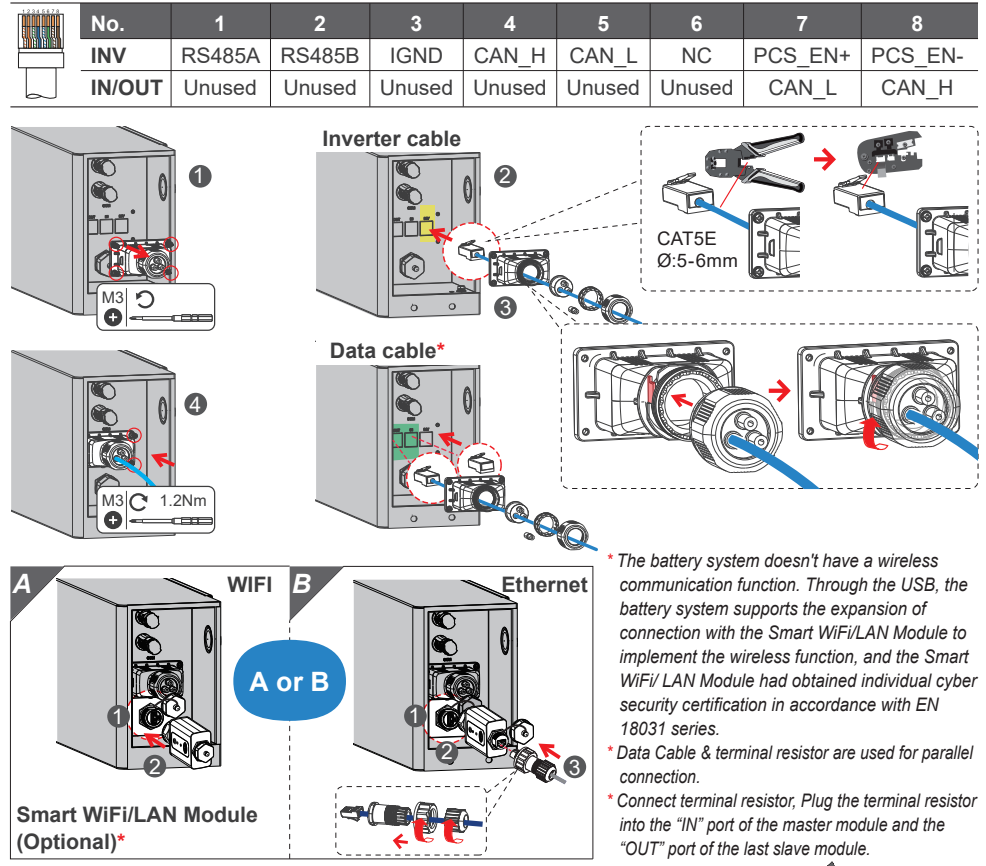


Electrical Connection

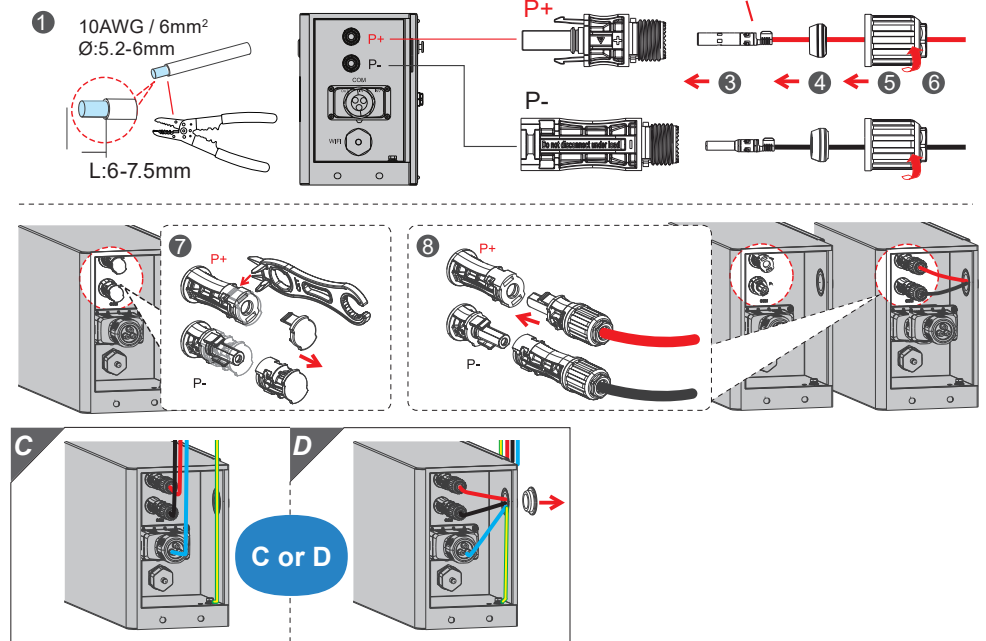
1. Connecting the PE



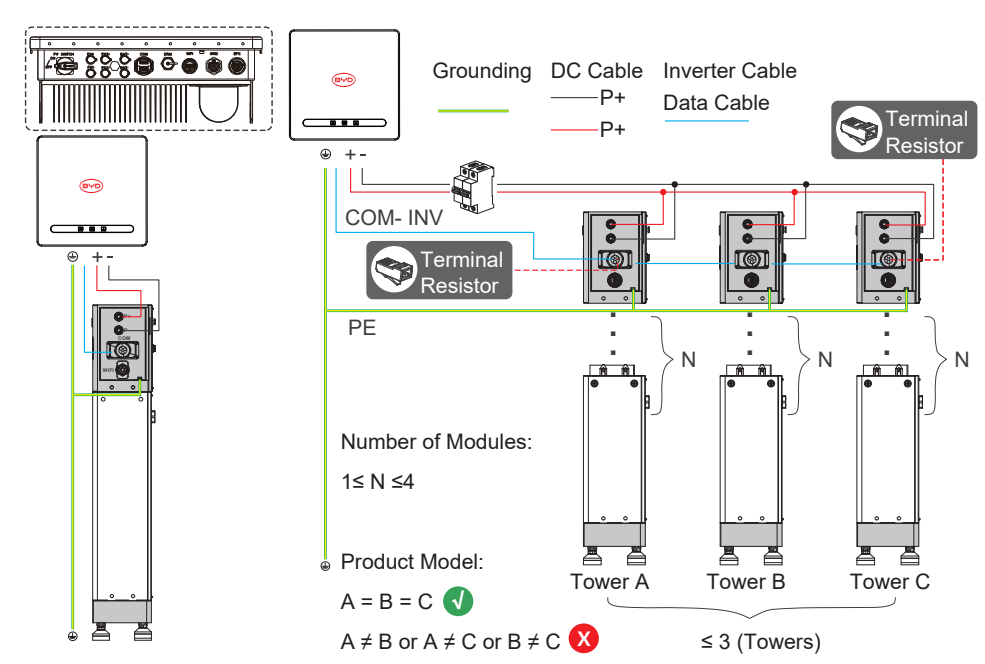
2. Connecting the Inverter cable, Data cable* and Smart Wifi/LAN Module* (Optional)



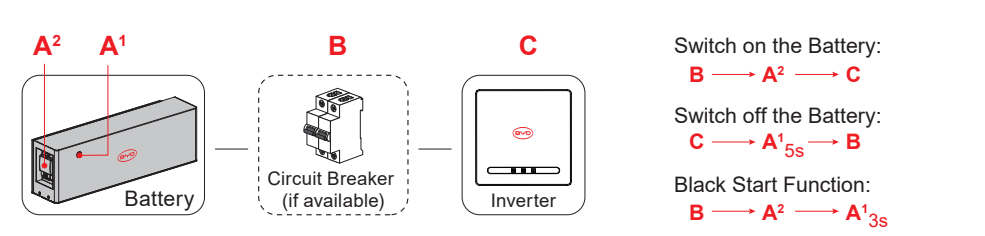
3. DC Connection



Systems Connection



Operation



LED Signals

Indicator	Status	Description
Flashing white and blue alternatively	White ON OFF 0.5s Blue ON OFF 0.5s	The battery system is initiating
Flashing white slowly	White ON OFF 2s Blue ON OFF 2s	The battery system is charging
White light flashing	White ON OFF 1s Blue ON OFF 1s	The battery system is discharging
Constant white	White ON OFF Blue ON OFF	Idle (the battery system is neither charging nor discharging).
Constant blue	White ON OFF Blue ON OFF	BCU failure
Blue light flashes a certain number of times	White ON OFF 2.5s Blue ON OFF 0.5s	Counting from top to bottom, flashing N times, represents the Nth battery module failure, N represents 1-4 battery modules

Connection Options with Inverters

