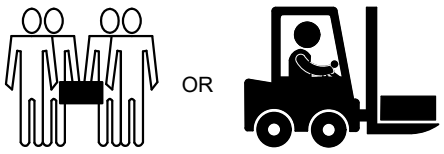
QUICK INSTALLATION GUIDE

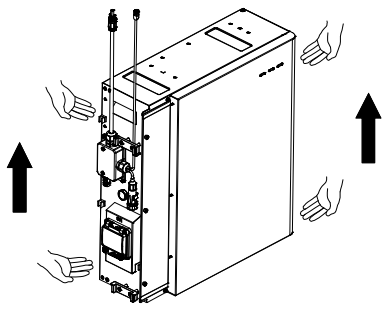
SMILE-G3-BAT-9.3S

1.0 Transport

During transportation, please follow these guidelines:
1. The original packaging should be used for transportation.
2. Transport the battery carefully and safely. Choose the appropriate handling method according to the weight about 90 kg. Keep the battery secured during transportation.



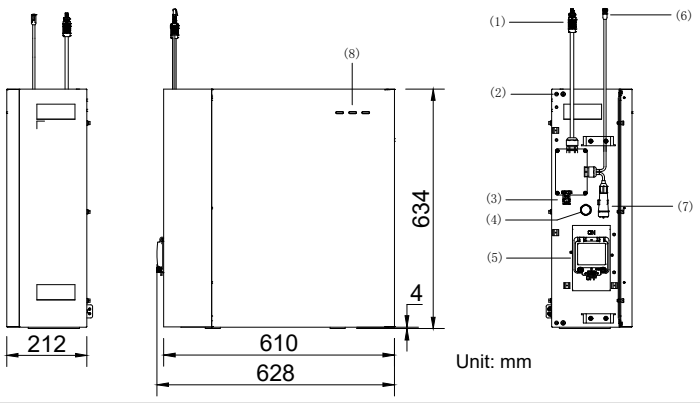
3. During transportation, please keep the packaging away from dangerous sources and take waterproofing measures.
4. After taking the battery out of the carton, please grasp the handles on both sides of the battery for handling.



2.0 Instructions

2.1 Product Overview

2.1.1 Dimensions and Interface



Unit: mm

(1) BAT+ Power Connector
(2) Grounding Point
(3) BAT- Power Connector
(4) Explosion-proof Valve
(5) Battery Circuit Breaker
(6) BMS COM1
(7) BMS COM2
(with Termination Resistor)
(8) LED Display

2.1.2 LED Display

SOC Display

During battery normal operation, three LED lights on the front cover indicate the battery SOC with different lighting patterns.

:White LEDs are flashing (0.5s on and 0.5s off) :White LEDs are glowing :White LEDs are off

LED Pattern	Battery SOC
	SOC≤10%
	10%<SOC≤30%
	30%<SOC≤50%
	50%<SOC≤60%
	60%<SOC≤90%
	90%<SOC≤100%

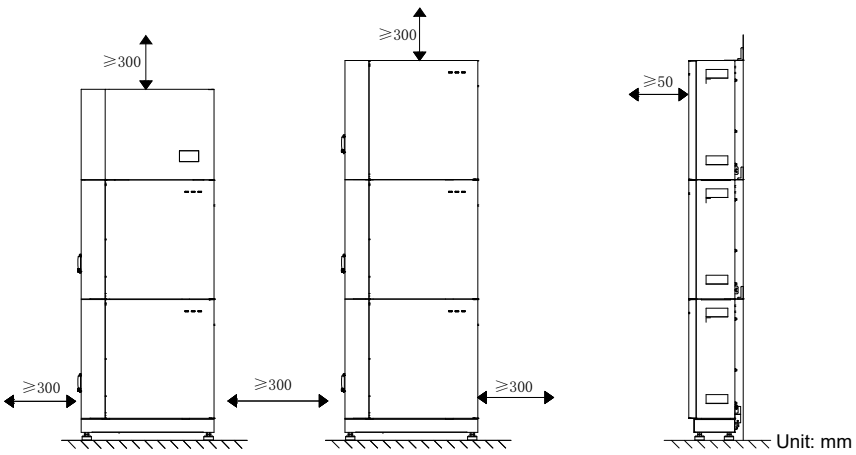
Operating Status Display

The LEDs indicate the operating status of the battery.
Standby: all white LEDs are flashing (0.5s on and 0.5s off).
Normal: white LEDs are glowing or flashing (0.5s on and 1.5s off).
Protection: yellow LEDs are glowing or flashing (0.5s on and 0.5s off).
Error: yellow LEDs are glowing or flashing (0.5s on and 0.5s off).
Shutdown: all LEDs are off.

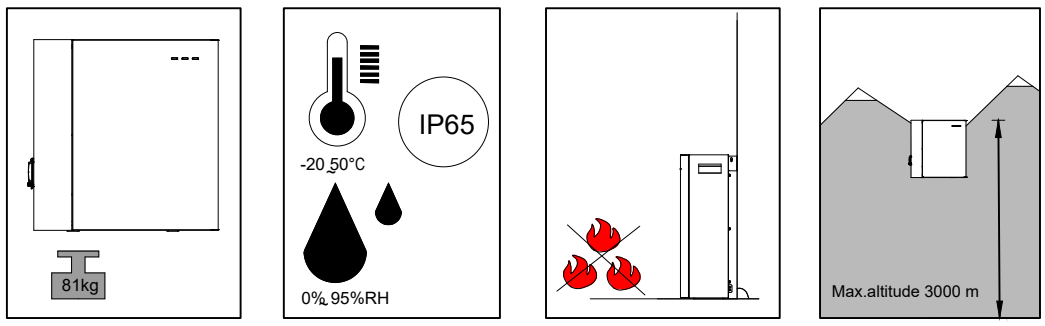
2.2 Installation Tips

NOTE

- At least two people are required to install the battery.
- Up to three batteries are supported for floor-mounted, meanwhile the installation should comply with the standard of AS5139.
- During installing two or more batteries on the floor, use the ladders.
- Max. 6 batteries for three phase system and Max. 4 batteries for single phase system can be installed onsite based on the actual configuration.
- If the floor is prone to stagnant water, please set up a heightened platform.
- The battery is heavy, do not slip off when handling the battery to avoid the battery falling and injuring the operator.
- The battery is forbidden to be used after falling, please buy a new one.
- Do not drag the battery during installation.
- Reserve sufficient space around the battery for installation, maintenance and heat dissipation.
- The side clearance provided is a recommendation which can be adjusted according to the end users' requirements and site environment.
- Local Standards may pose extra clearance requirements, particularly regarding clearances between the Battery System and other Electrical Appliances, please comply with the local standards.



2.3 Mounting Location Requirements



3.0 Scope of Delivery

SMILE-G3-BAT-9.3S					
Battery (×1)	Battery Cable Cover (×1)	Top Bracket (×1)	Grounding Bar (×1)	Limit Cardboard (×1)	Quick Installation Guide (×1)
Wall Anchor ST6*55 (×4)	M5 Grounding Terminal (×2)	BAT Connector Disassembling Tool (×1)	Hexagon Head Screw M5*12 (×4)	Connecting Plate (×2) *	Countersunk Head Screw M5*8 (×2)
Communication Cable (×1) Code:A	Power Cable (×1) Code:B	Power Cable (×1) Code: C **	Power Cable (×1) Code: D **		

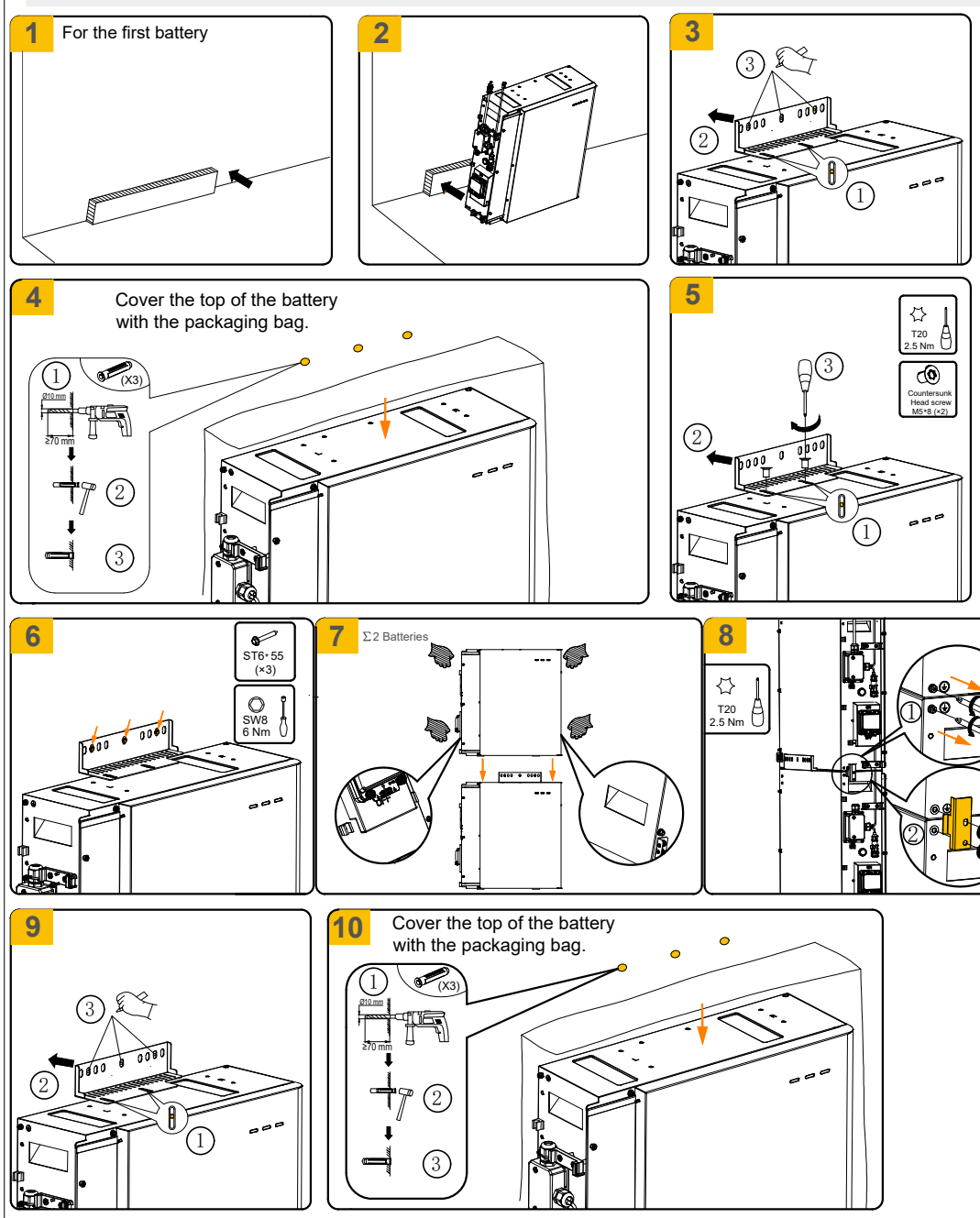
* For batteries top connection during batteries forward expansion mounting.
** Connect to SMILE-G3 single phase inverter with M6 OT battery connection terminals. Only provide for Australia and New Zealand markets.

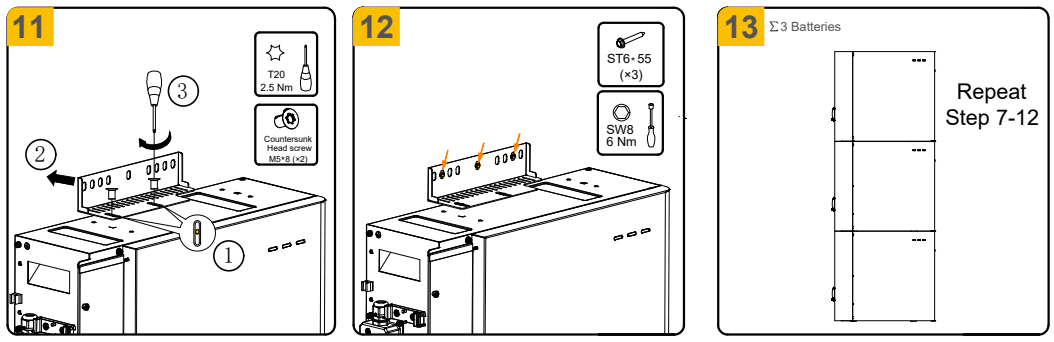
4.0 Mounting

4.1 Mounting without Base Unit

NOTE

If the ground is uneven, please place a thin material underneath the two feet of the battery.



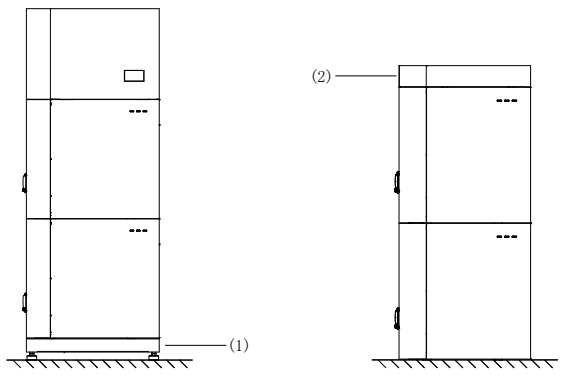


If You want to mount more batteries, please repeat the mounting steps from 1 to 13 for the second column batteries.

4.2 Mounting with Base Unit and Top Cover (optional)

NOTE

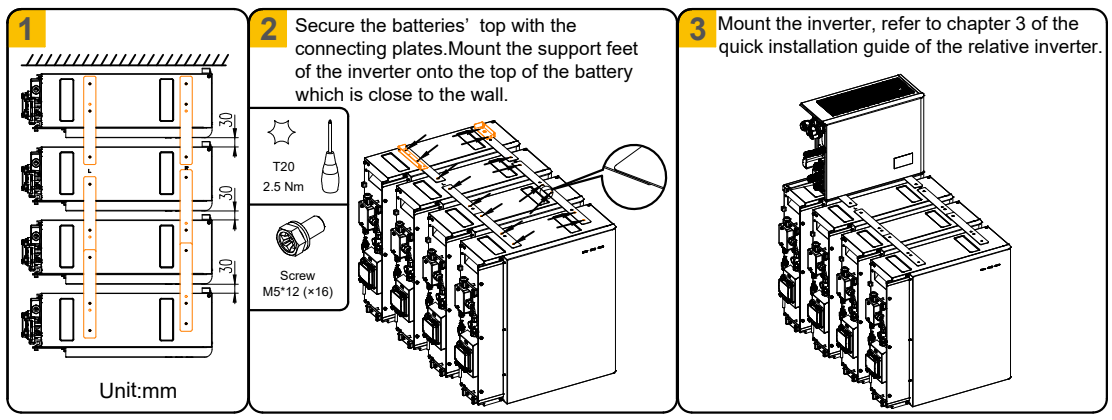
- AlphaESS offers an optional base unit for the bottom battery and is recommended for use when there is a risk of water accumulation at the installation site.
- AlphaESS offers an optional top cover for the top battery for better appearance.
- Please refer to the corresponding quick installation guide during mounting the base unit or top cover.



(1) Base Unit
(2) Top Cover

5.0 Battery Forward Expansion Mounting

Fixing the batteries' top



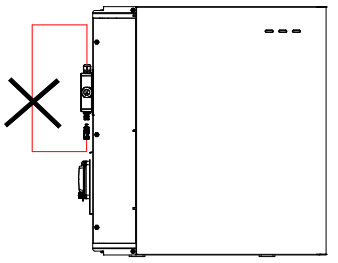
6.0 Electrical Connection

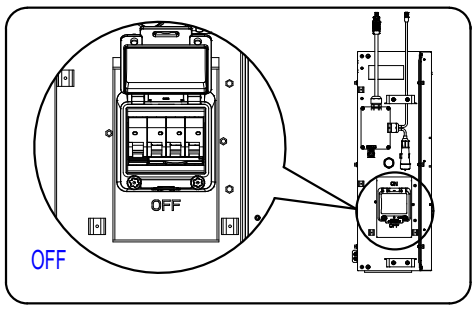
6.1 Electrical Connection Tip

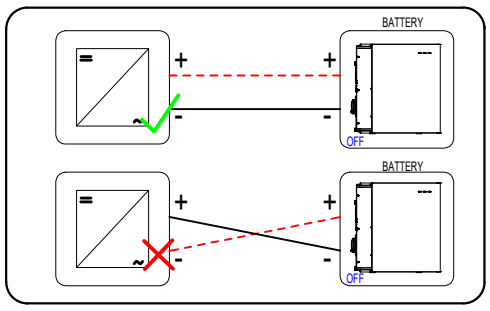
CAUTION

Danger to life due to burns caused by electric arcs through short-circuit currents.
Short-circuit currents in the battery can cause heat build-up and electric arcs.
Heat build-up and electric arcs may result in lethal injuries due to burns.

- Disconnect the battery from all voltages sources prior to performing any work on the battery.
- The upper connector of the lower battery should connect to the lower connector of the upper battery, otherwise the short-circuiting of the battery will occur.
- Observe battery safety information provided in the Safety and Installation Instructions.



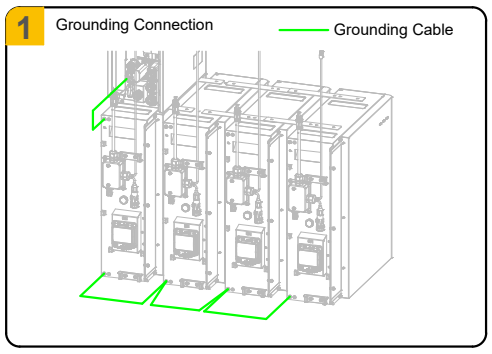


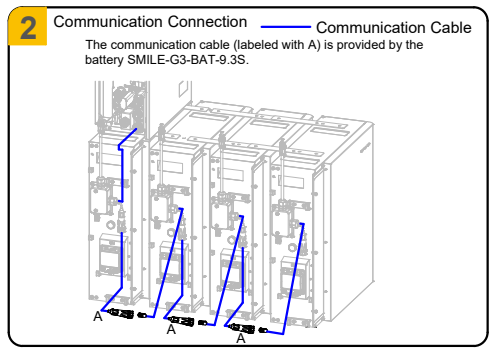


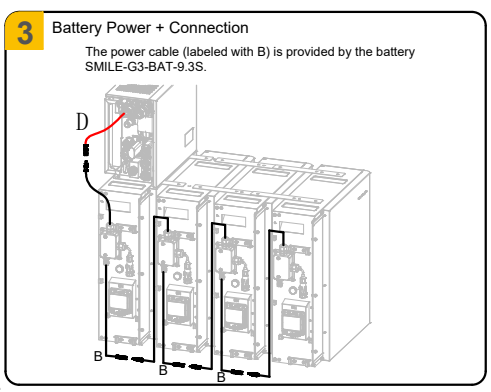
6.2 Electrical Connection when Battery Forward Expansion Mounting

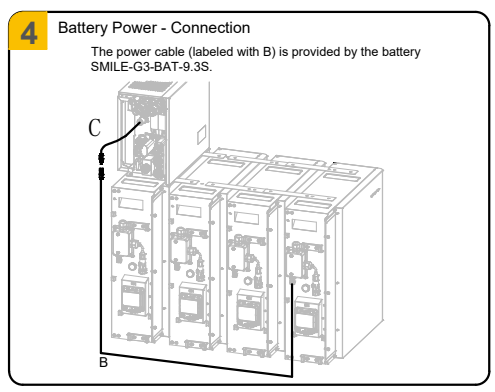
NOTE

When installing batteries with forward expansion, please use communication cable A and battery power cable B.







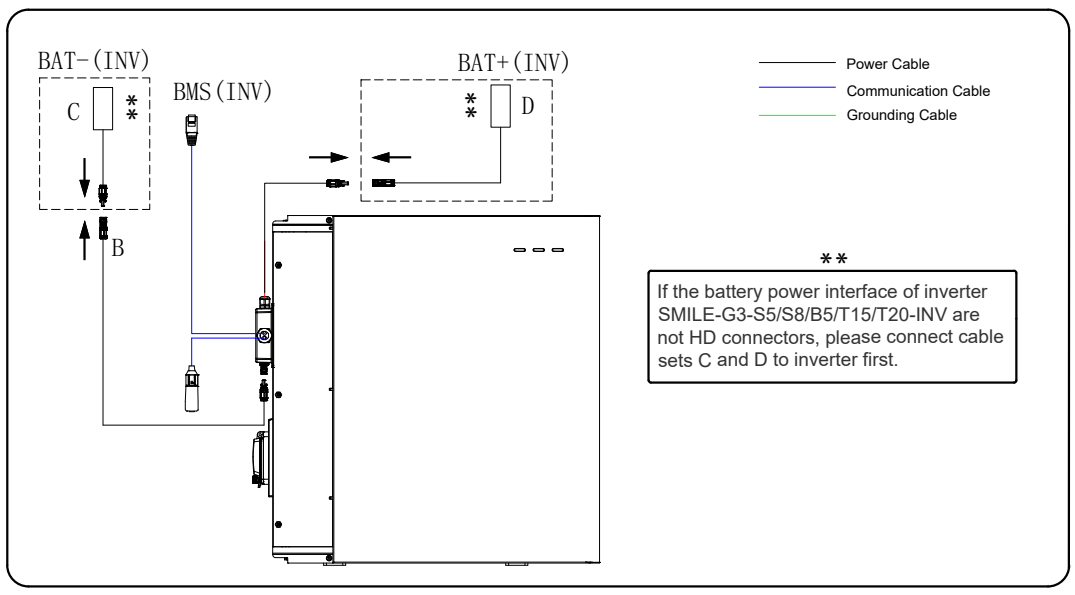


6.3 Electrical Connection when Battery side Expansion Mounting

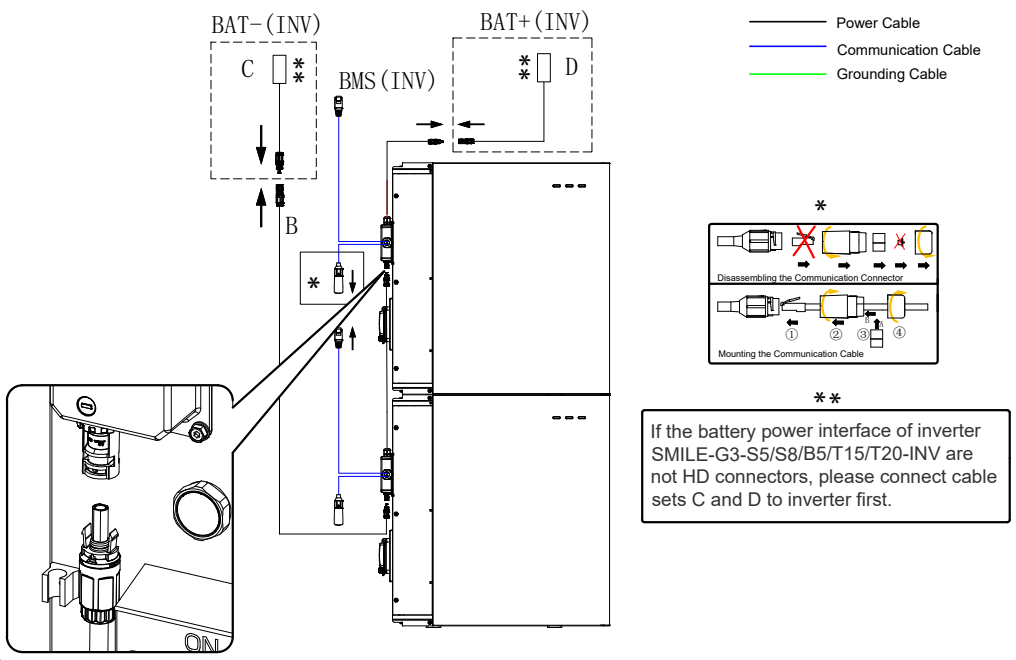
NOTE

When installing batteries with side expansion, please use communication cable A and battery power cable B.

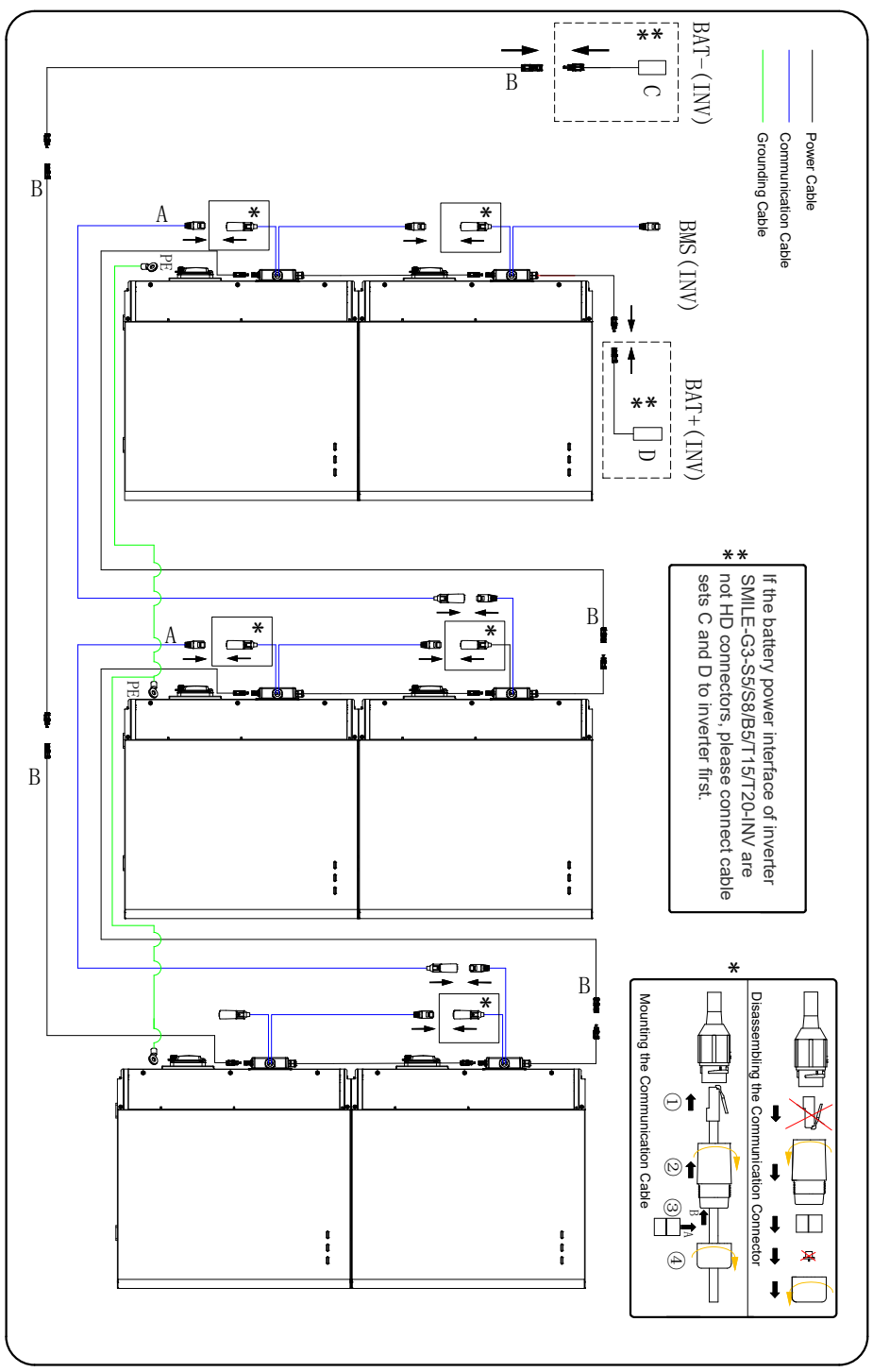
Battery Wiring Diagram of Single Column



** If the battery power interface of inverter SMILE-G3-S5/S8/B5/T15/T20-INV are not HD connectors, please connect cable sets C and D to inverter first.

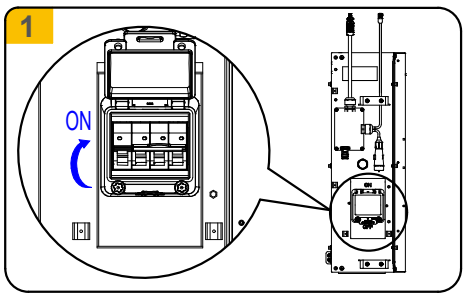


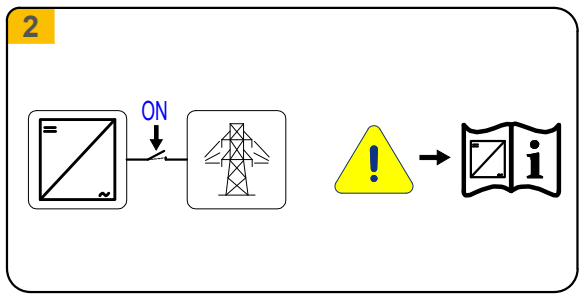
** If the battery power interface of inverter SMILE-G3-S5/S8/B5/T15/T20-INV are not HD connectors, please connect cable sets C and D to inverter first.

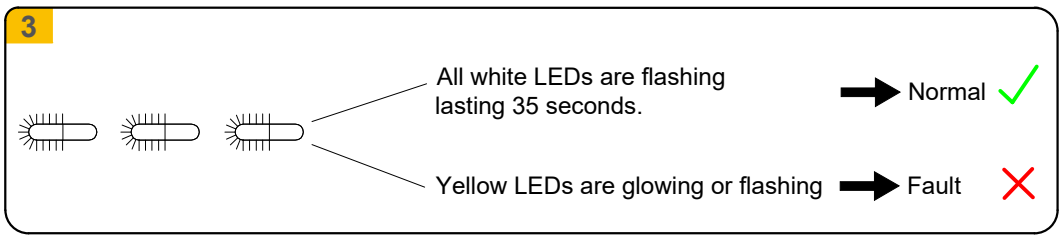


Battery Side Wiring Diagram of three Columns

7.0 Commissioning

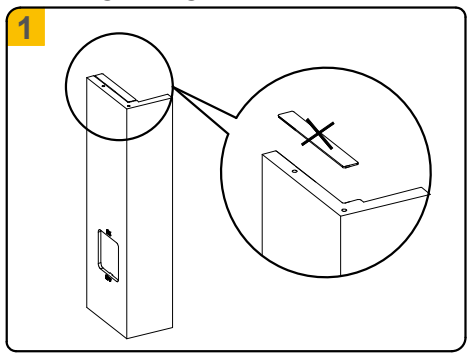


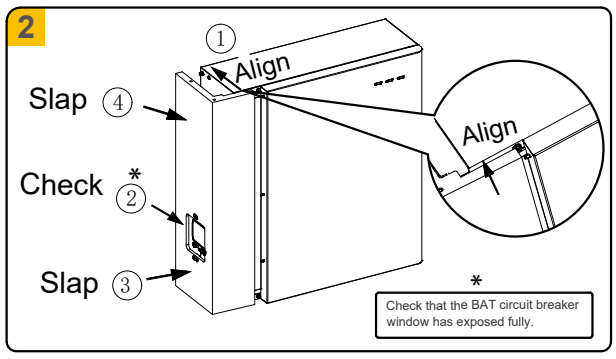




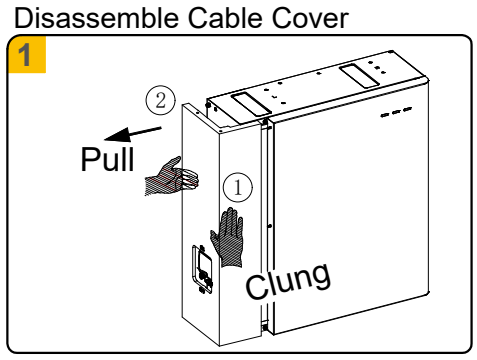
8.0 Install and Disassemble Cable Cover

Install Cable Cover





Disassemble Cable Cover



9.0 Datasheet

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