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your smart energy

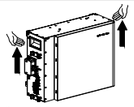
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V03

QUICK INSTALLATION GUIDE

SMILE-G3-BAT-3.8S

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. Keep the battery secured during transportation.

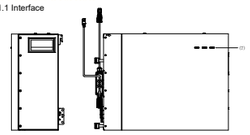


3. During transportation, please keep the packaging away from dangerous sources and take waterproofing measures.

2.0 Instructions

2.1 Product Overview

2.1.1 Interface



(1) BAT+ Power Connector
(2) Grounding Point
(3) BAT- Power Connector
(4) Battery Circuit Breaker
(5) BMS COM1
(6) BMS COM2 (with Terminal Resistor)
(7) 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 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 product.
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.

Protection Display
The three LED lights on the front cover indicate the protection status of the battery with different lighting patterns.
Yellow LEDs are flashing (0.5s on and 0.5s off) Yellow LEDs are glowing Yellow LEDs off

LED Pattern	Description	Troubleshooting
	Temperature difference	Wait for automatic recovery. If this protection state persists, please call customer service.
	High temperature	Stop discharging or charging until this protection state disappears. Wait for the temperature to drop.
	Low temperature discharge	Stop discharging until this protection state disappears. Wait for the temperature to rise.
	Overcurrent charge	Wait for automatic recovery. If this protection state persists, please call customer service.
	Overcurrent discharge	
	Cell overvoltage	Wait for automatic recovery. If this protection state persists for a long time, please call customer service.
	Cell under voltage	Stop discharging and call customer service immediately.
	Low temperature charge	Stop charging until this protection state disappears. Wait for the temperature to rise.

NOTE

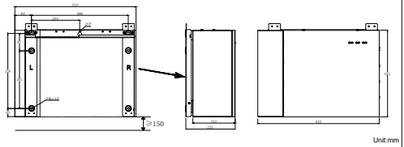
During work mode, if the protection status "Cell under voltage" appears, please take the following actions:
First, switch off the circuit breaker which is located at the lower left of the battery, switch on the circuit breaker and wait for 3~5s, switch off the circuit breaker, then switch on the circuit breaker and wait for 3~5s, switch off the circuit breaker, at last switch on the circuit breaker of the battery; the BMS will be forced to turn on the MOSFET of discharge so that the energy storage inverter can detect the battery's open voltage and charge the battery.

Error State

The three LED lights on the front cover indicate the error state of the battery with different lighting patterns.
Yellow LEDs are flashing (0.5s on and 0.5s off) Yellow LEDs are glowing Yellow LEDs off

LED Pattern	Description	Troubleshooting
	Hardware error	Wait for automatic recovery. If this error persists, please call customer service.
	Hardware error	
	Circuit breaker open	Switch on circuit breaker after power off the battery.
	LMU disconnected (Follower)	Reconnect the BMS communication cable.
	SN missing	Please call customer service.
	LMU disconnected (Host)	Reconnect the BMS communication cable.
	Software version inconsistent	Please call customer service.
	Multi-Host	Restart all batteries.
	MOS over-temperature	Power offthe battery and power on the battery after 30 minutes.
	Insulation fault	Restart battery. In case this error persists, please call customer service.
	Total voltage fault	Restart battery. In case this error persists, please call customer service.
	Precharge failure	Restart battery. In case this error persists, please call customer service.

2.2 Dimensions

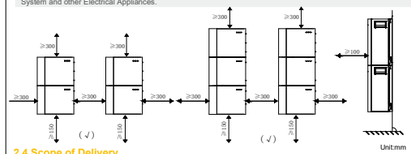


Unit:mm

2.3 Installation Space Requirements

NOTE

•Reserve sufficient space around the energy storage system to ensure sufficient space 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.



Unit:mm

2.4 Scope of Delivery

SMILE-G3-BAT-3.8S

Battery(×1)	Battery Cable Cover(×1)	Top Beam of Wall Bracket(×1)	Right Beam of Wall Bracket(×1)	Left Beam of Wall Bracket(×1)	Flange Nut M5 (×7)
Hexagon Head Screw M5*12 (×6)	Grounding Bar (×1)	Wall Anchor ST6*55 (×6)	Quick Installation Guide (×1)	Holder for Wall Bracket (×2)	

Accessories for the Base Unit (Optional)

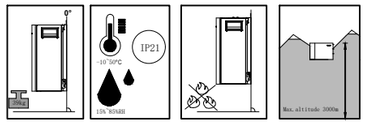
Base Unit (×1)	Top Wall Bracket (×1)	Position Plate (×1)	Right Connection Plate (×6)	Right Connection Plate of Base Unit (×1)	Limit Block (×12)	Screw M5*10 (×15)	Screw M5*12 (×20)	Limit Screw M5*10 (×10)
			★		★	★		

★ Only for SMILE-G3-BAT-3.6S/4.0S

Accessories Cables for Distanced Horizontal Battery Expansion (Optional)

Series Battery Main Negative Power Cable (×1)	Communication Cable Between Two Column Series Batteries (×1)	Power Cable Between Two Column Series Batteries (×1)

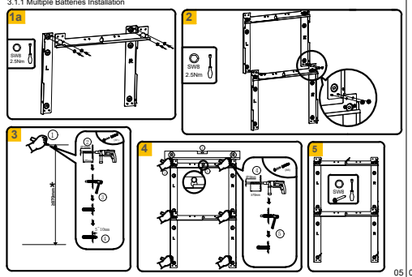
2.5 Mounting Location Requirements

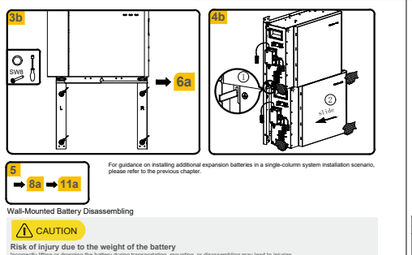


3.0 Installation

3.1 Wall Bracket Installation

3.1.1 Multiple Batteries Installation





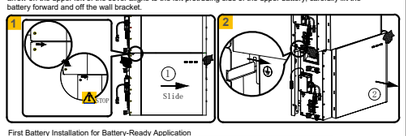
For guidance on installing additional expansion batteries in a single-column system installation scenario, please refer to the previous chapter.

Wall-Mounted Battery Disassembling

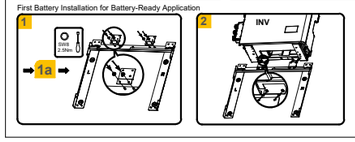
CAUTION

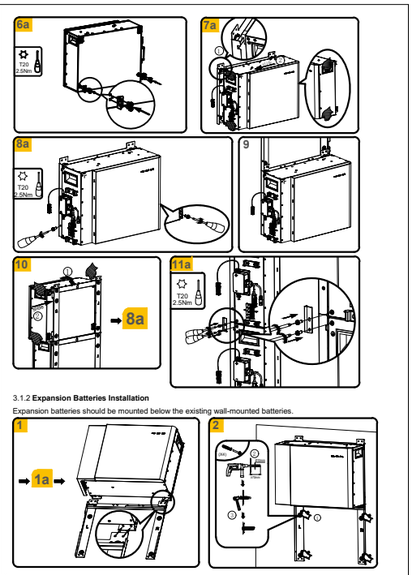
Risk of injury due to the weight of the battery
Incorrectly lifting or dropping the battery during transportation, mounting, or disassembling may lead to injuries.
• Transport and lift the battery carefully. Take the weight of the product into account.
• Always have two or more people to mount and disassemble the product.
• Wear suitable personal protective equipment for all work on the product.

When disassembling the battery that has been mounted with a wall bracket and has not directly connected to the inverter, always hold the handles on both sides of the battery firmly and slide it to the right. Once the arrow on the upper left of the cover aligns to the left protruding side of the upper battery, carefully lift the battery forward and off the wall bracket.



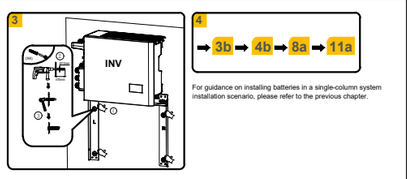
First Battery Installation for Battery-Ready Application





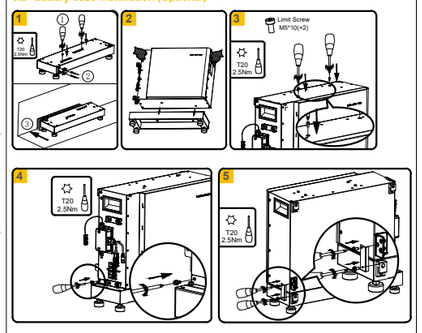
3.1.2 **Expansion Batteries Installation**

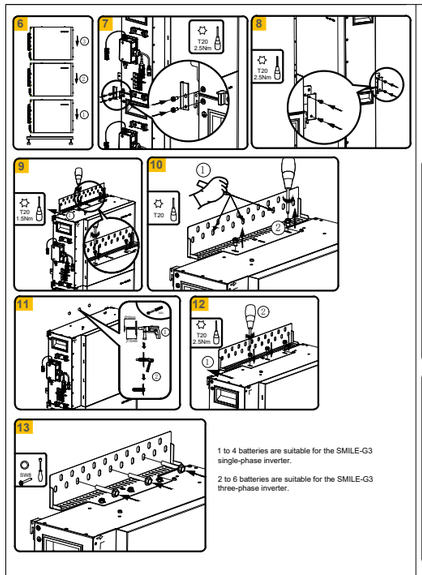
Expansion batteries should be mounted below the existing wall-mounted batteries.



For guidance on installing batteries in a single-column system installation scenario, please refer to the previous chapter.

3.2 Battery base Installation (Optional)





1 to 4 batteries are suitable for the SMILE-G3 single-phase inverter.

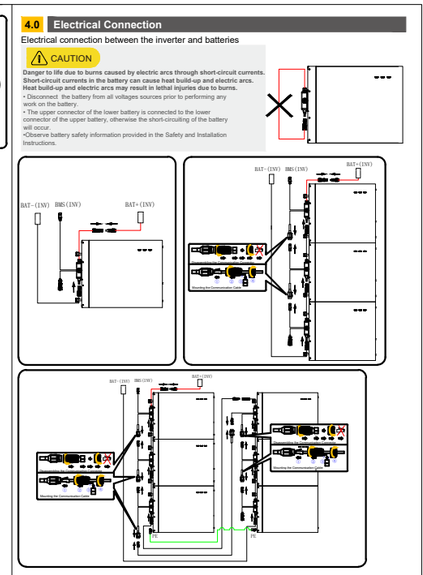
2 to 6 batteries are suitable for the SMILE-G3 three-phase inverter.

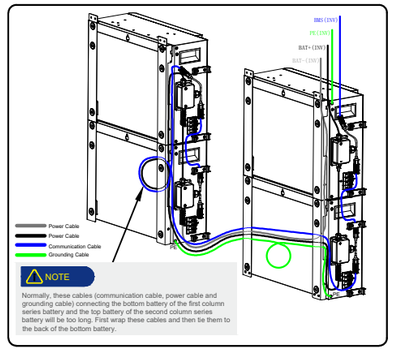
4.0 Electrical Connection

Electrical connection between the inverter and batteries

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 is connected 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.

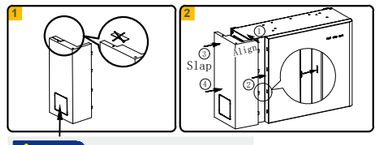




NOTE

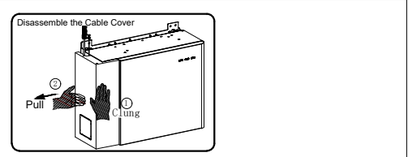
Normally, these cables (communication cable, power cable and grounding cable) connecting the bottom battery of the first column series battery and the top battery of the second column series battery will be too long. First wrap these cables and then tie them to the back of the bottom battery.

5.0 Install and Disassemble Cable Cover



NOTE

For easier breaker operation, please remove the knockout hole if necessary.



6.0 Datasheet

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