

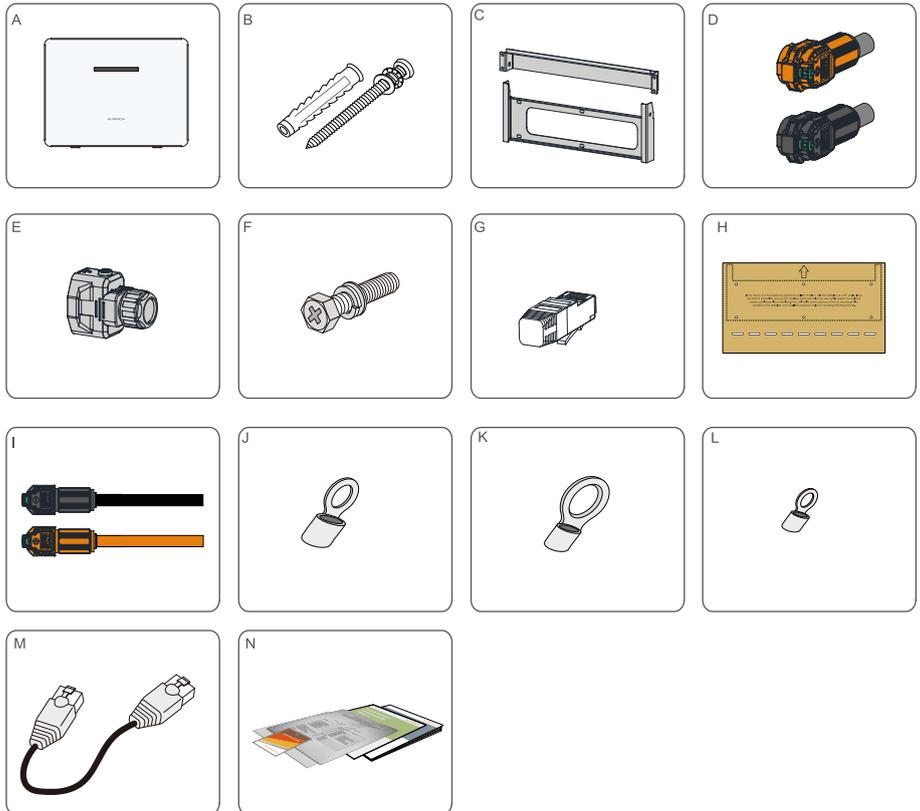
Quick Installation Guide

Low Voltage LFP Battery

MGL060



Scope of Delivery



No.	Name	Quantity
A	Battery	1
B	Expansion bolt set	7
C	Mounting bracket set	1
D	DC connector set (battery side)	1
E	Communication connector (with RJ45 plug)	1
F	M6×14 screw	7
G	Termination resistor	1
H	Mounting template	1
I	Battery cable set	1
J	OT terminal (35-6)	2
K	OT terminal (35-8)	2
L	OT terminal for PE connection	1
M	Network cable	1
N	Document	1

Mounting Location

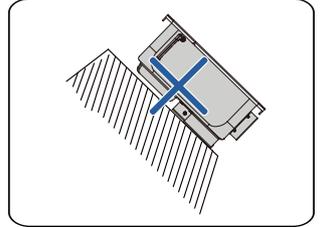
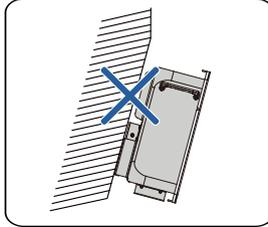
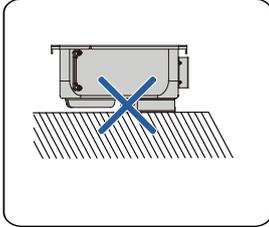
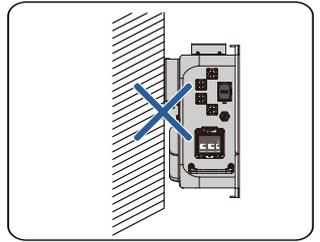
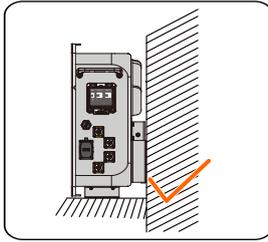
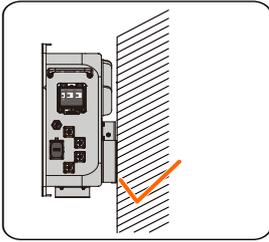
	<p>55°C (131°F)</p>	<p>0°C (32°F)</p>	<p>5% - 95 %</p>
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<p>(Prohibited)</p>	<p>(Prohibited)</p>		
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<p>(Recommended)</p>	<p>(Recommended)</p>	<p>(Recommended)</p>
<p>(Prohibited)</p>	<p>(Prohibited)</p>	<p>(Prohibited)</p>

Installation Angle



Installation Tools

Goggles



Dust mask



Safety gloves



Safety shoes



Electric screwdriver
ST6.3, M6



Utility knife



Marker



Rubber mallet



Heat gun



Torque wrench:
27mm



Level



Hammer drill:
φ10



Phillips screwdriver:
ST6.3, M6, M4



Measuring tape



Wire stripper



Hydraulic plier



Li-ion hydraulic plier
35mm²



Socket wrench: M6



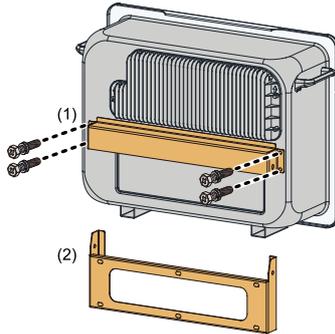
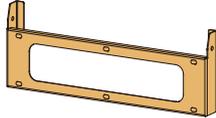
Mounted on the Wall

1

(1)

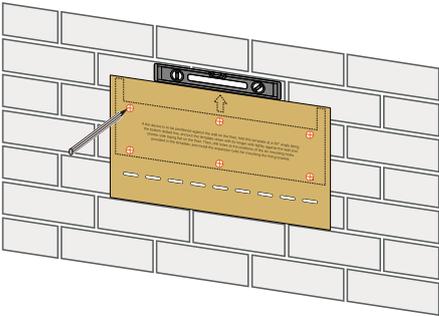


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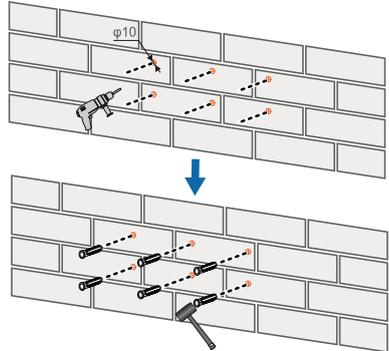


⊕ M6
⊖ C 4.2 N·m

2



3



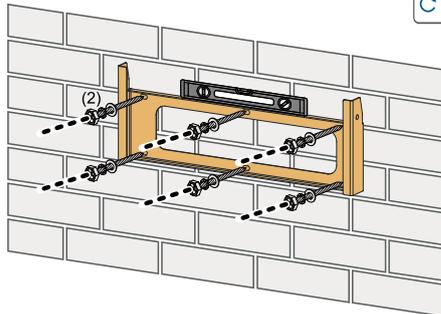
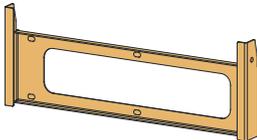
*The depth of the holes should be about 70 mm.

4

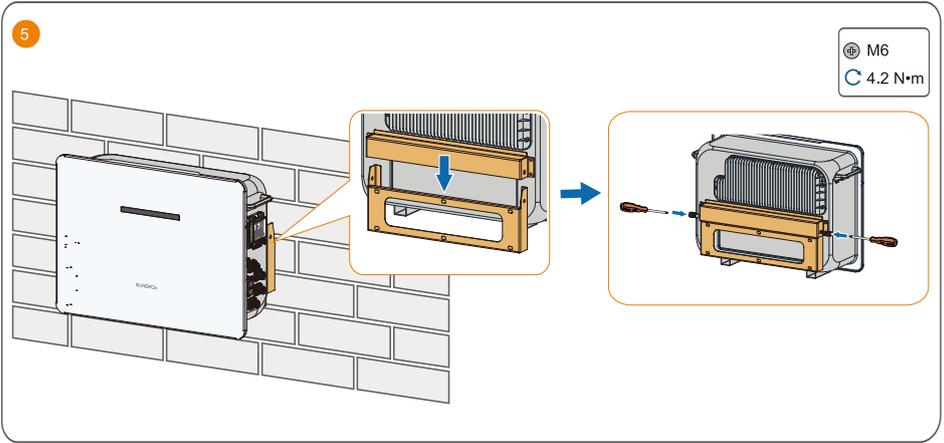
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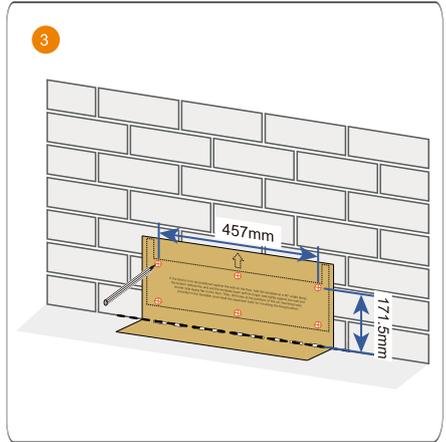
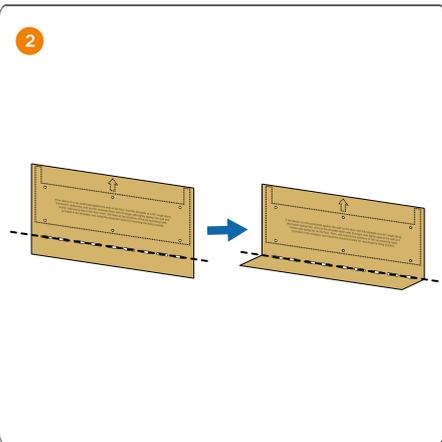
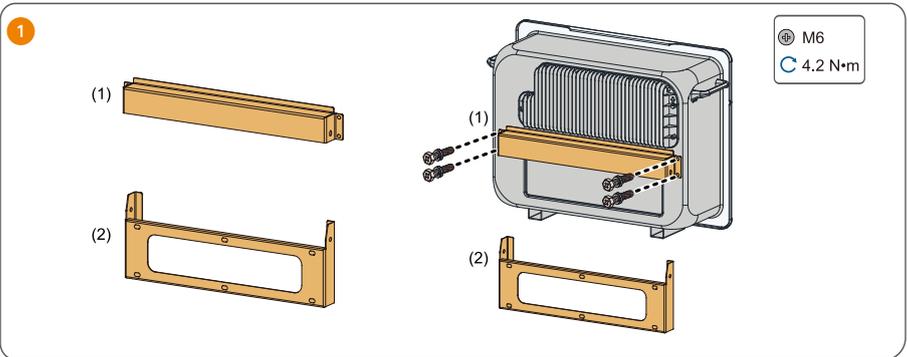
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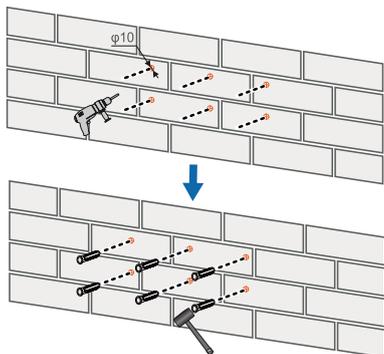
⊕ ST6.3
⊖ C 7.5 N·m



Floor-mounted Against the Wall

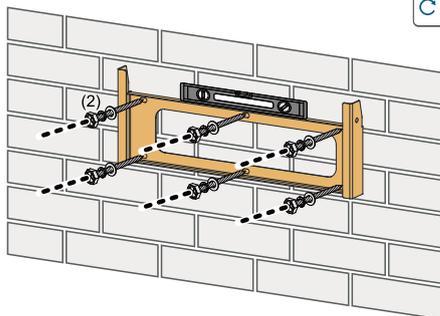
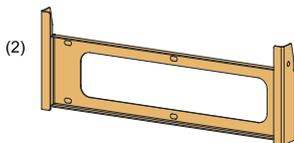
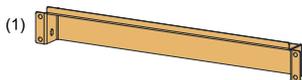


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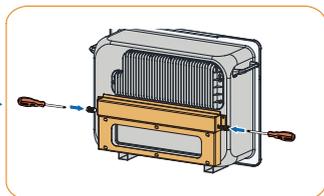
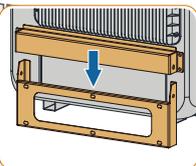
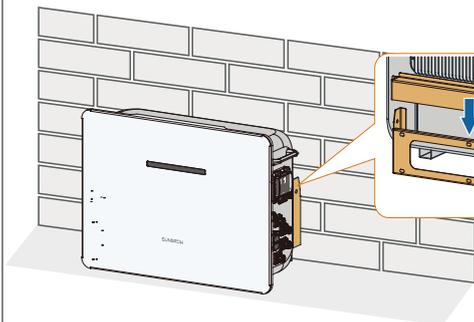
*The depth of the holes should be about 70 mm.

5



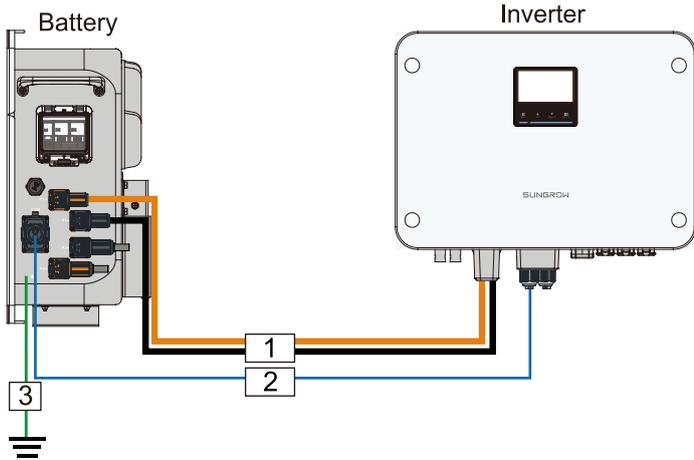
⊕ ST6.3
C 7.5 N•m

6



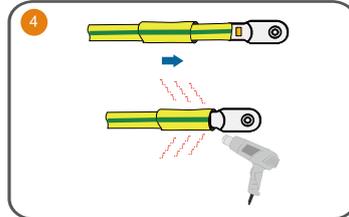
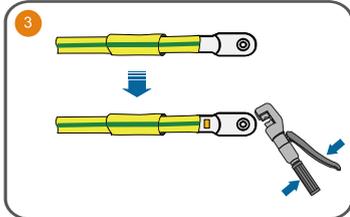
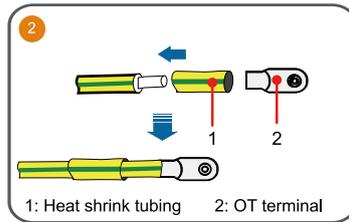
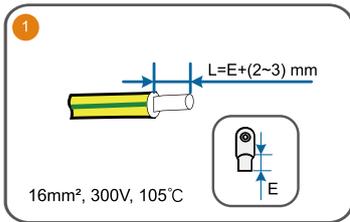
⊕ M6
C 4.2 N•m

Electrical Connection Overview

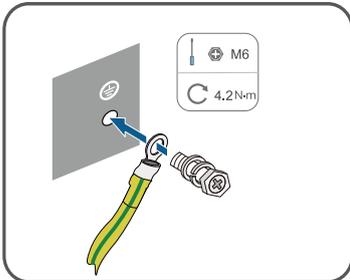


No.	Cable	Type	Specification	
			Outer diameter	Cross-sectional area of conductor
1	DC cable	Multi-core cable, able to withstand voltages of $\geq 300\text{V}$	11mm - 12,5mm	2AWG/35mm ²
2	Communication cable (included in the scope of delivery)	/	/	/
3	PE (protective grounding) cable	Outdoor multi-core copper-conductor cable, able to withstand a voltage of 300V and work at the temperature of 105°C.	8.1mm - 9.1mm	6AWG/16mm ²

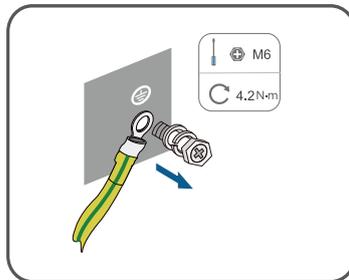
Preparing the PE Cable



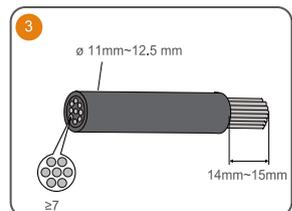
Connecting the PE Cable

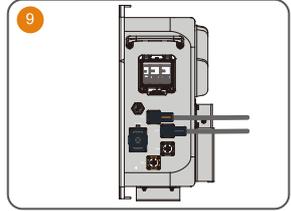
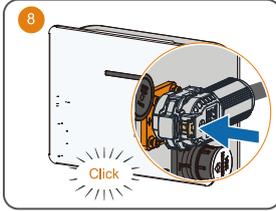
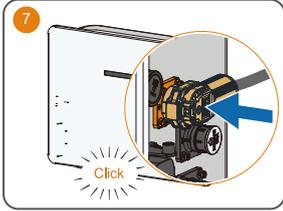
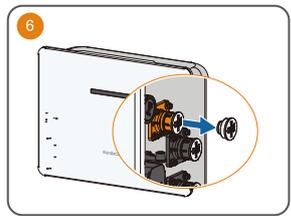
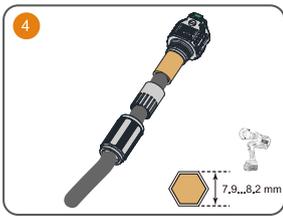


Disconnecting the PE Cable

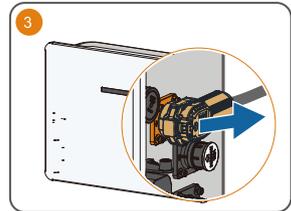
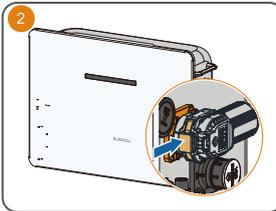
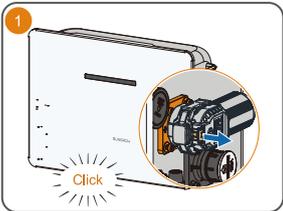


Preparing and Connecting the DC Cables

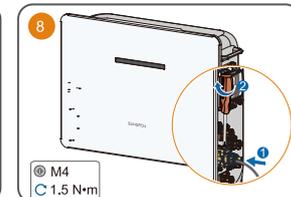
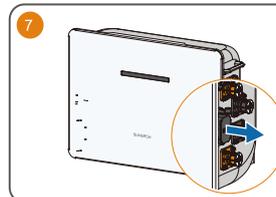
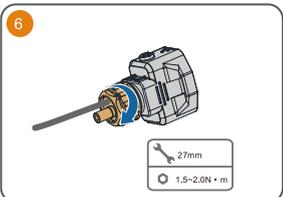
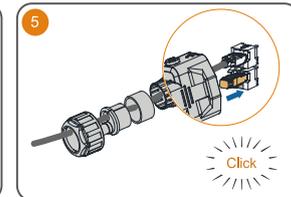
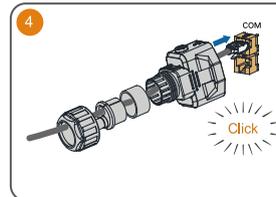
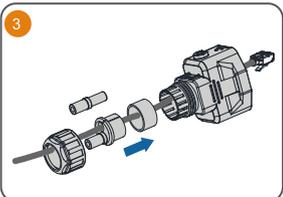
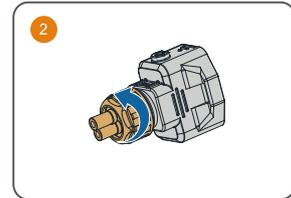
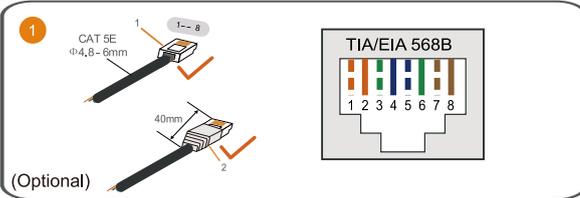




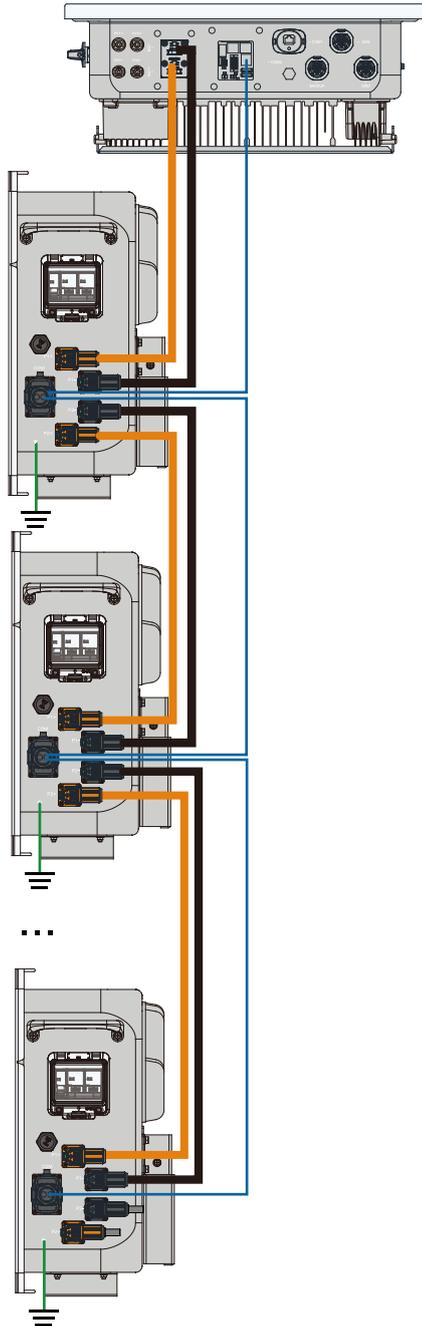
Disconnecting the DC Connectors



Assembling the Communication Connectors



*Seal the termination resistor to the unused COM port, otherwise the battery will not work properly.

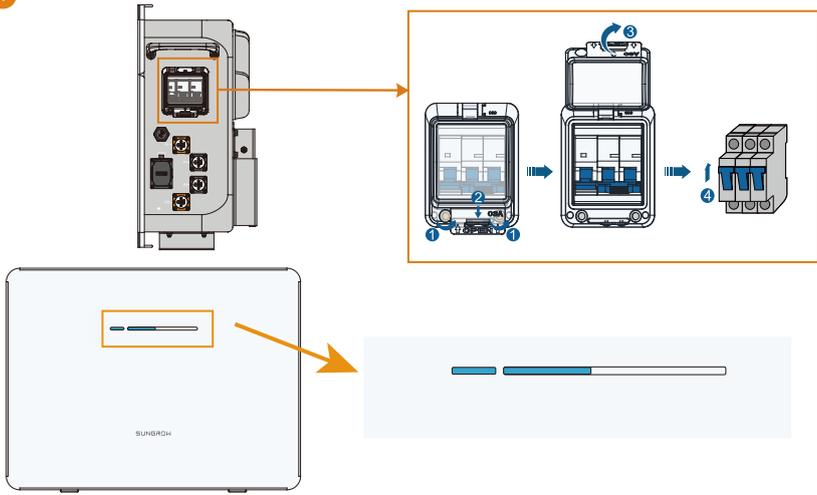


*Seal the unused DC port on the battery with waterproof plugs.

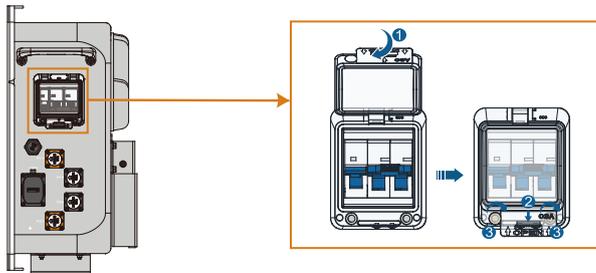
**Seal the termination resistor to the unused COM port.

Commissioning Procedure

1

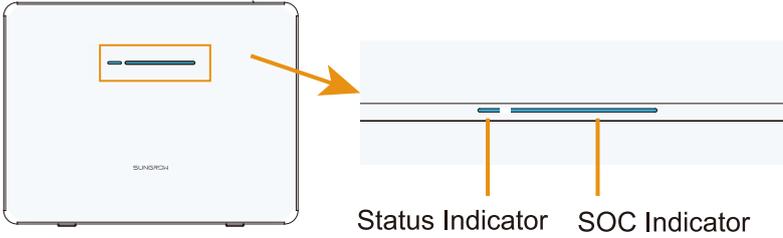


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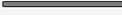


*Failing to do so may expose the inverter to damage from adverse weather conditions, such as rain.

LED Indicator



Status indicator:

Status indicator	Color	Status	Description
	Blue	Steady on	The battery operates properly.
		Blink slow (at an interval of 1s)	The battery is starting up or in standby mode.
		Blink fast (at an interval of 0.5s)	The battery is being updated, tested, or calibrated.
	Red	Steady on	There is a fault in the battery.
		Blink slow (at an interval of 1s)	There is an alarm in the battery.
	Grey	Off	The battery is turned off.

SOC Indicator:

SOC Indicator	SOC
	$0 < \text{SOC} \leq 20\%$
	$20\% < \text{SOC} \leq 40\%$
	$40\% < \text{SOC} \leq 60\%$
	$60\% < \text{SOC} \leq 80\%$
	$\text{SOC} > 80\%$

1. Contents may be periodically updated or revised due to product development. The information in this guide is subject to change without notice. In no case shall this guide substitute for the user manual or related notes on the device.
2. Make sure to read over, fully understand and strictly follow the detailed instructions of the user manual and other related regulations before installing the equipment. The user manual can be downloaded by visiting the website at <http://support.sungrowpower.com/>; or it can be obtained by scanning the QR code on the side of the equipment or the back cover of this guide.
3. All operations can be performed only by qualified personnel, that must be trained for installation and commissioning of electrical system, as well as dealing with hazards, have knowledge of the manual and of the local regulations and directives.
4. Before installation, check that the package contents are intact and complete compared to the packing list. Contact SUNGROW or the distributor in case of any damaged or missing components.
5. The cable used must be intact and well insulated. Operation personnel must wear proper personal protective equipment (PPE) all the time.
6. Any violation could result in personal death or injury or device damage, and will void the warranty.

Safety

The battery has been designed and tested strictly according to international safety regulations. Read all safety instructions carefully prior to any work and observe them at all times when working on or with the battery. Incorrect operation or work may cause:

- injury or death to the operator or a third party;
- damage to the battery or other properties.

The warning label on the battery body are as follows.



Danger! Do not work on the product when it carries voltage.



Read through the manual before any operation of this product.



Read through the manual before any operation of this product.



Do not dispose in trash.
Compacting a lithium ion battery is dangerous as it can explode.



No open flames!
Avoid exposure to flames, incineration, punctures, or impacts.



Electric shock hazard
Service must be performed only by qualified personnel. Keep it out of reach of children.



Please recycle battery. Do not discard.



CE mark of conformity.
EU/EEA importer.



This is a protective grounding terminal, which should be grounded securely to protect the safety of operators.

EU Declaration of Conformity

within the scope of the EU directives



Low Voltage Directive 2014/35/EU (LVD)

Electromagnetic compatibility 2014/30/EU (EMC)

Restriction of the use of certain hazardous substances 2011/65/EU and 2015/863/EU (RoHS)

The manufacturer Sungrow Power Supply Co., Ltd, China hereby confirms that the product MGL060 complies with the essential requirements and other relevant provisions of Directives 2014/35/EU, 2014/30/EU, 2011/65/EU, 2015/863/EU.

Manufacturer:

Sungrow Power Supply Co., Ltd.

No.1699, Xiyou Road, Hefei, 230088.P.R.China

For EU only:

EU/EEA Importer: Sungrow Deutschland GmbH

Balanstraße 59, 81541 München, Germany

DANGER

Risk of explosion

- Do not subject the battery to any strong force.
- Do not mechanically damage the battery (pierce, deform, strip down, etc.)
- Do not heat the battery or dispose of the battery in a fire.
- Do not install the battery in potentially explosive environments.
- Do not soak the battery in water or expose it to moisture or liquids.

DANGER

Risk of fire

- Do not expose the battery to temperatures in excess of 60°C.
- Do not place the battery near a heat source, such as direct sunlight, a fireplace, a thermally uninsulated wall exposed to sunlight, hot water, or a heater.
- Keep sources of ignition such as sparks, flames, and smoking materials away from the battery.

DANGER

Risk of electric shock

- Do not disassemble the battery.
- Do not handle a wet battery or use wet tools.
- Do not soak the battery in water or expose it to moisture or liquids.
- Keep the battery away from children and animals.
- Wear suitable clothing, guards and gloves to prevent you from direct contact with the DC voltage.
- Use insulated tools during working with battery.
- Set aside metal jewelry before working on the DC circuit.

NOTICE

Comply with local standards for use with the battery.



More information in the QR code or
at <http://support.sungrowpower.com/>

SUNGROW

Sungrow Power Supply Co., Ltd.
www.sungrowpower.com



QIMUL-MCH01377