

Solar PV Single Phase Inverter

(MACSI1000 | MACSI1500 | MACSI2000 | MACSI2500 | MACSI3000)



General Disclaimer

- The information in this quick installation guide is subject to change due to product updates or other reasons. This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions here are for guidance only.
- Before installations, read through the quick installation guide. For additional information, please see the user manual.
- All operations should be performed by trained and knowledgeable technicians who are familiar with local standards and safety regulations.
- Check the deliverables for correct model, complete contents, and intact appearance. Contact the manufacturer if any damage is found or any component is missing.
- Use insulating tools and wear personal protective equipment when operating the equipment to ensure personal safety. Wear anti-static gloves, clothes, and wrist strip when touching electronic components to protect the inverter from damage. The manufacturer shall not be liable for any damage caused by static electricity.
- Strictly follow the installation, operation, and configuration instructions in this guide and user manual. The manufacturer shall not be liable for equipment damage or personal injury if you do not follow the instructions.

Safety Disclaimer



Warning

DC Side:

1. Ensure the component frames and the bracket system are securely grounded.
2. Connect the DC cables using the delivered PV connectors. The manufacturer shall not be liable for equipment damage if other connectors are used.
3. Ensure the DC cables are connected tightly, securely, and correctly. Inappropriate wiring may cause poor contacts or high impedances, and damage the inverter.
4. Measure the DC cable using the multimeter to avoid reverse polarity connection. Also, the voltage should be under the max DC input voltage. The manufacturer shall not be liable for the damage caused by reverse connection and extremely high voltage.
5. The PV modules used with the inverter must have an IEC61730 class A rating.

AC Side:

1. The voltage and frequency at the connecting point should meet the on-grid requirements.
2. Additional protective devices like circuit breakers or fuses are recommended on the AC side. Specification of the protective device should be at least 1.25 times the rated AC output rated current.
3. PE cable of the inverter must be connected firmly. The resistance between the neutral wire and the earth cable is less than 10Ω .
4. You are recommended to use copper cables as AC output cables. If you prefer aluminum cables, remember to use copper to aluminum adapter terminals.

Product :

1. Do not apply mechanical load to the terminals, otherwise the terminals can be damaged.
2. All labels and warning marks should be visible after the installation. Do not scrawl, damage, or cover any label on the device.
3. Unauthorized dismantling or modification may damage the equipment, the damage is not covered under the warranty.
4. Install the inverter away from high magnetic field to avoid electromagnetic interference. If there is any radio or wireless communication equipment below 30MHz near the inverter, you have to:
 - Install the inverter at least 30m far away from the wireless equipment.
 - Add a low pass EMI filter or a multi winding ferrite core to the DC input cable or AC output cable of the inverter.
5. Warning labels on the inverter are as follows.

	HIGH VOLTAGE HAZARD. Disconnect all incoming power and turn off the product before working on it.		Delayed discharge. Wait 5 minutes after power off until the components are completely discharged.
	Read through the guide before working on this device.		Potential risks exist. Wear proper PPE before any operations.
	High-temperature hazard. Do not touch the product under operation to avoid being burnt.		Grounding point. Indicates the position for connecting the PE cable.
	CE marking		Do not dispose of the inverter as household waste. Discard the product in compliance with local laws and regulations, or send it back to the manufacturer.

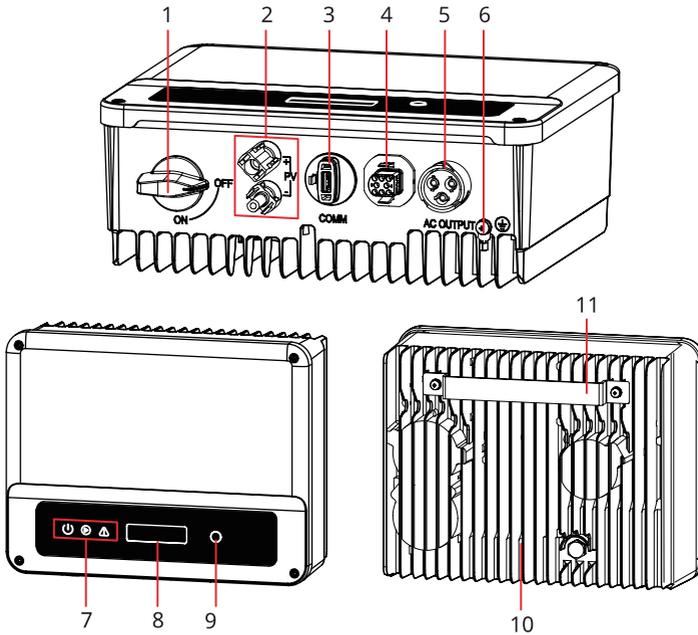
Check before Power-on

No.	Check Item
1	The product is firmly installed at a clean place that is well-ventilated and easy-to-operate.
2	The PE, DC input, AC output, and communication cables are connected correctly and securely.
3	Cable ties are intact, routed properly and evenly.
4	Unused ports and terminals are sealed.
5	The voltage and frequency at the connection point meet the inverter grid connection requirements.

LED Indicators

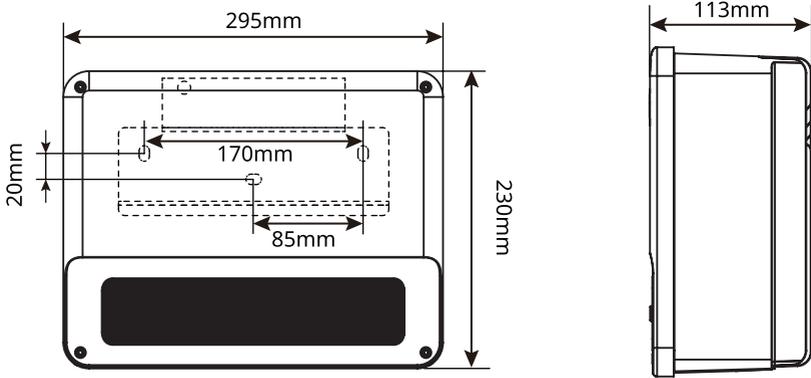
Indicator	Status	Description
 Power		ON = WiFi is connected/active.
		BLINK 1 = WiFi system is resetting.
		BLINK 2 = WiFi not connect to the router.
		BLINK 4 = WiFi server problem.
		BLINK = RS485 is connected.
		OFF = WiFi is not active.
 Operating		ON = The inverter is feeding power.
		OFF = The inverter is not feeding power at the moment.
 Faulty		ON = A fault has occurred.
		OFF = No fault.

Parts

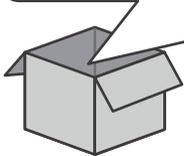
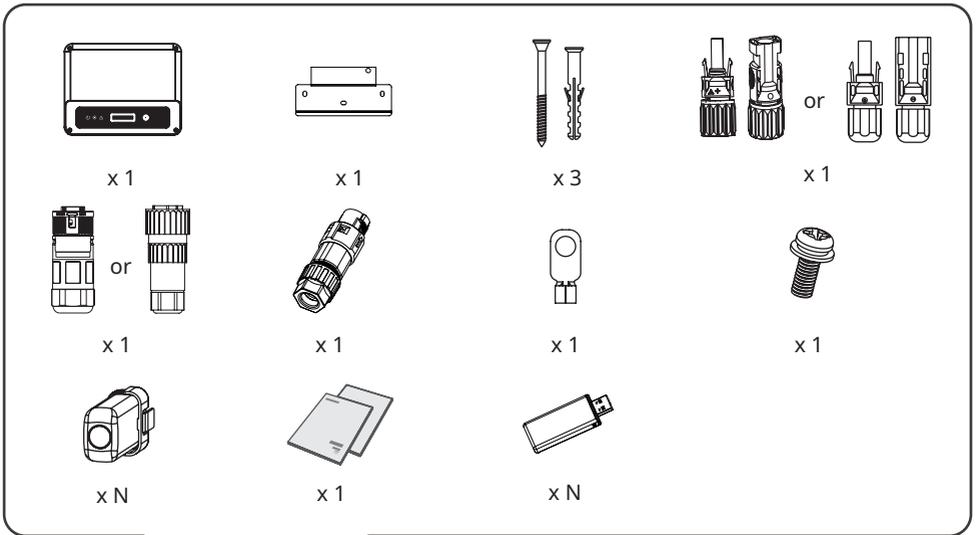


- | | | |
|---|-----------------------|--|
| 1. DC Switch(optional) | 2. PV Input Terminal | 3. WiFi/LAN/4G
Communication Module
Port |
| 4. DRED/CT/
Remote Shutdown
Communication Cable
Port(optional) | 5. AC Output Terminal | 6. PE Terminal |
| 7. Indicator | 8. LCD(optional) | 9. Button(optional) |
| 10. Heat Sink | 11. Mounting Plate | |

Dimensions

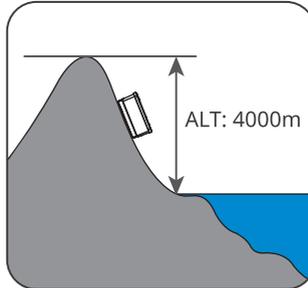
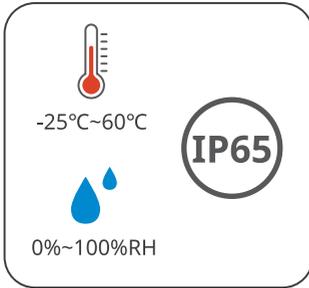
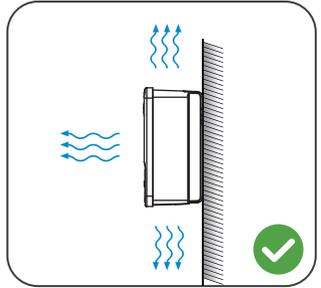
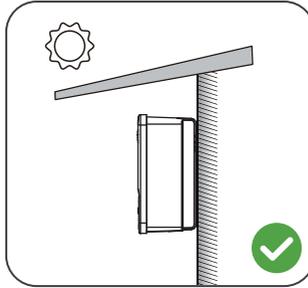
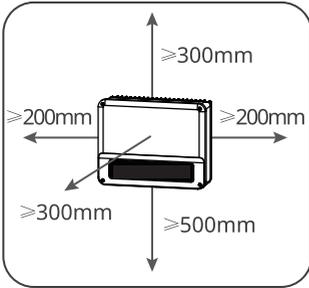
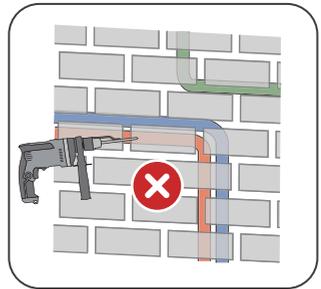


03 Inverter Installation

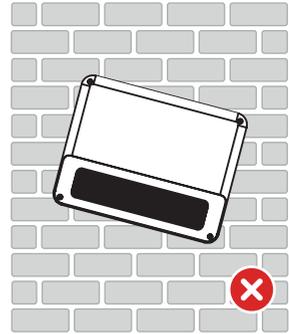
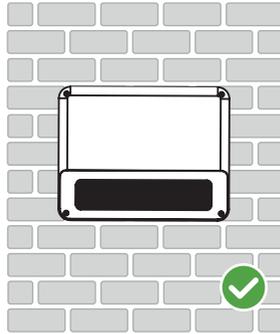
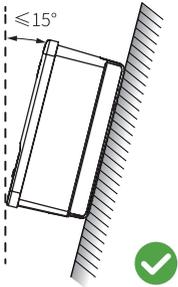


N = Quantity depends on the inverter model.

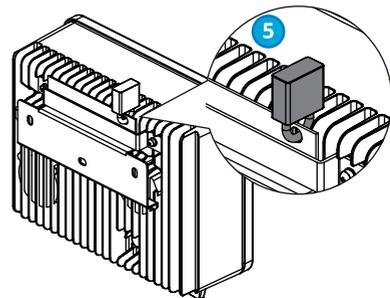
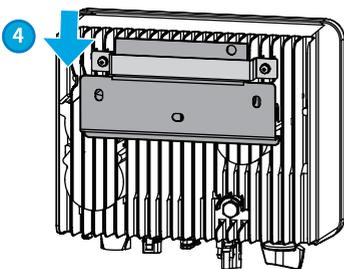
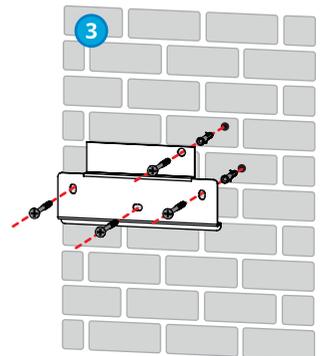
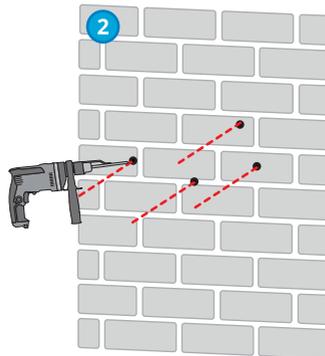
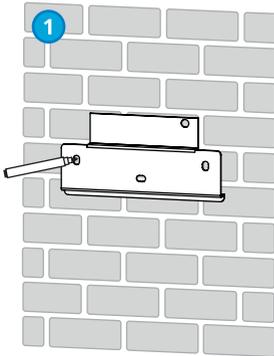
Space Requirements



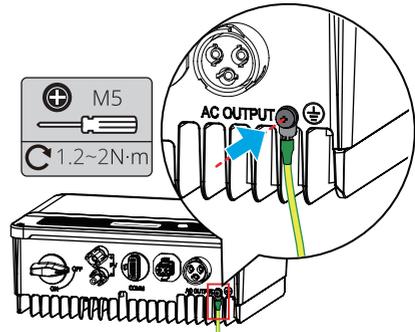
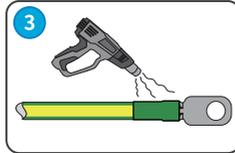
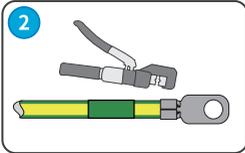
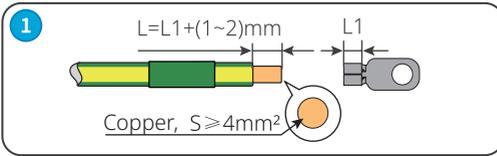
Angle Requirements



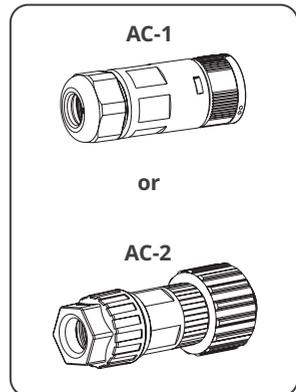
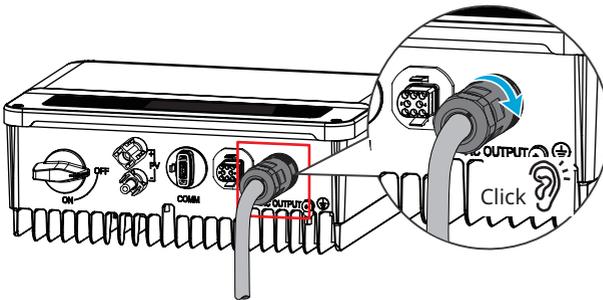
Installing the Inverter



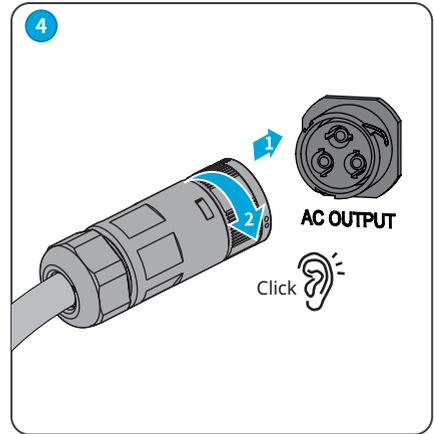
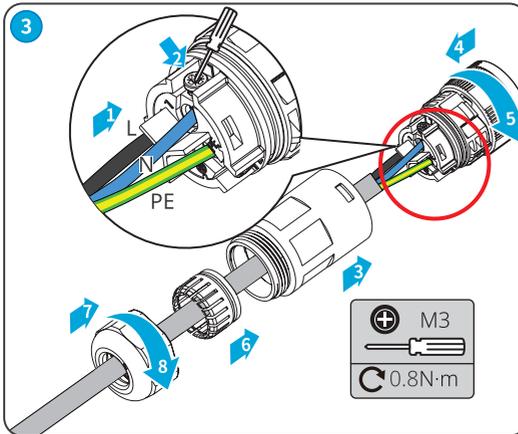
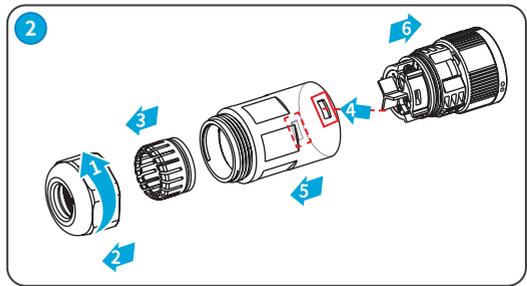
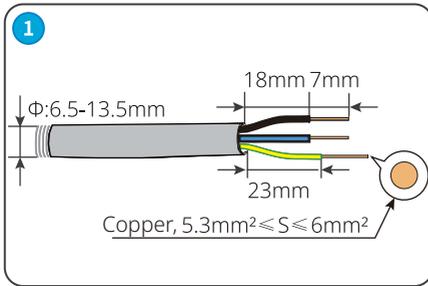
PE Cable



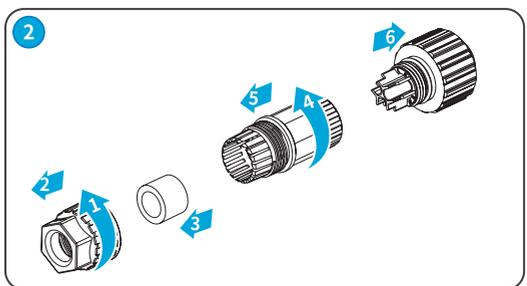
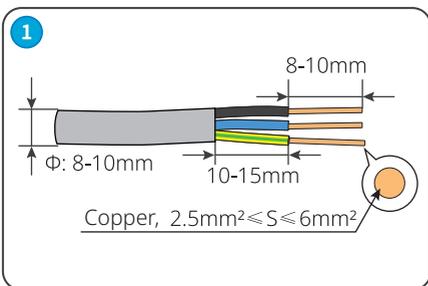
AC Cable

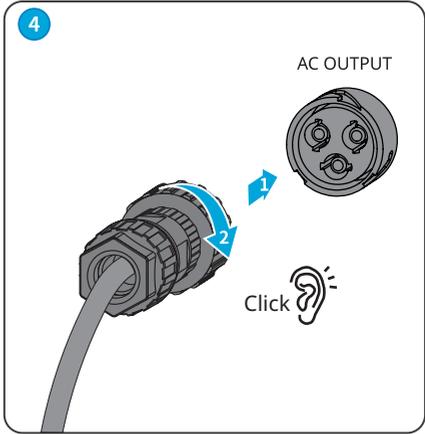
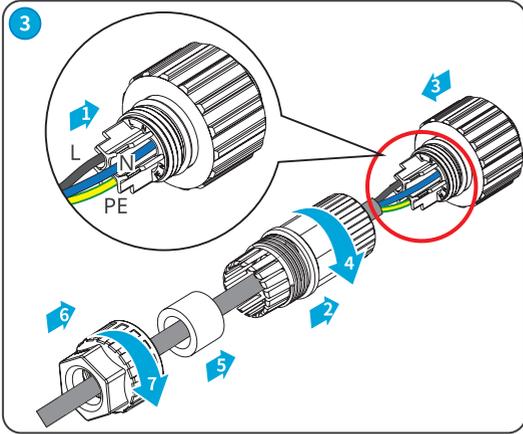


AC-1 Connector

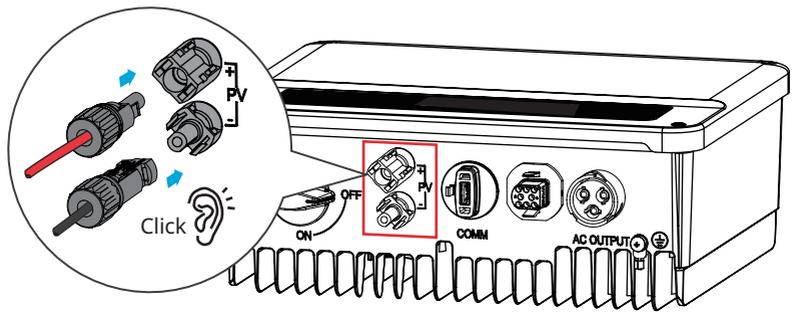


AC-2 Connector

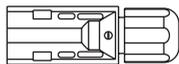
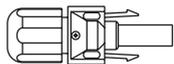




DC Cable

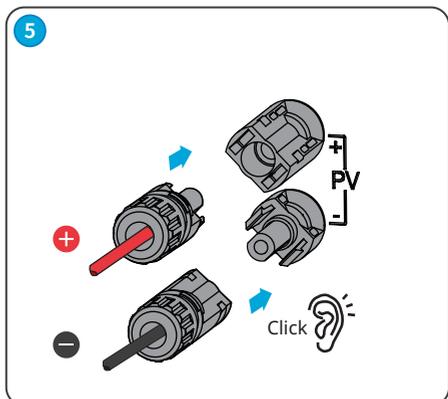
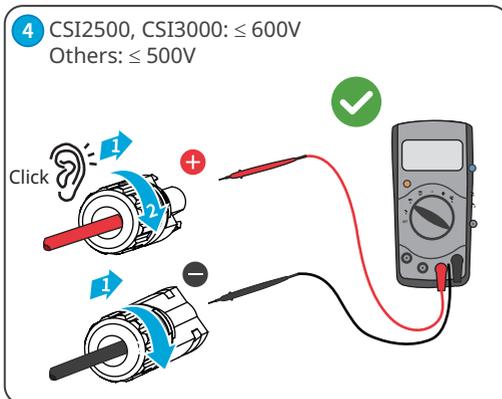
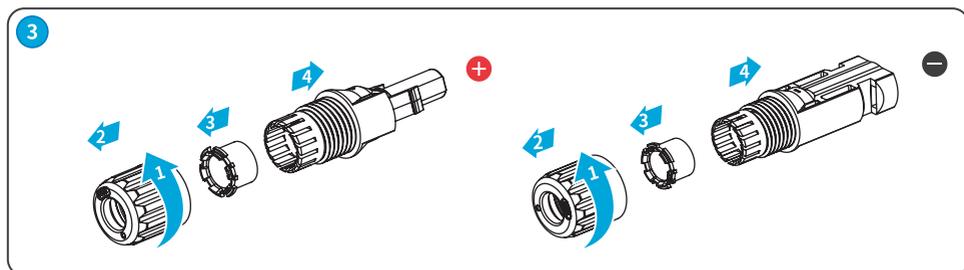
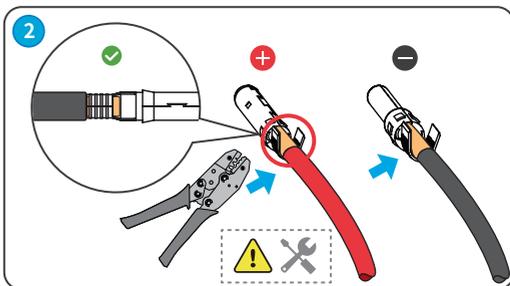
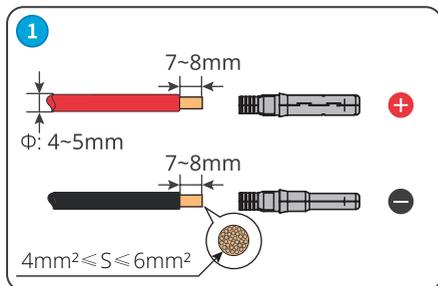


DEVALAN Series

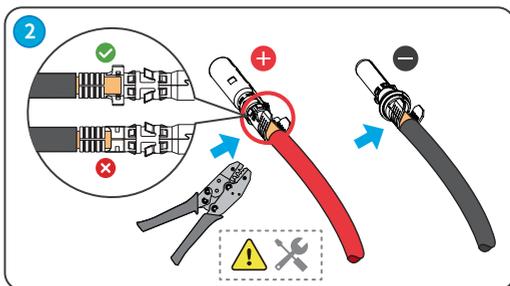
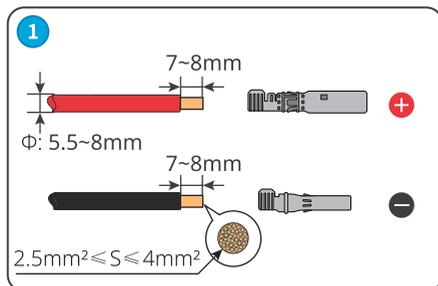


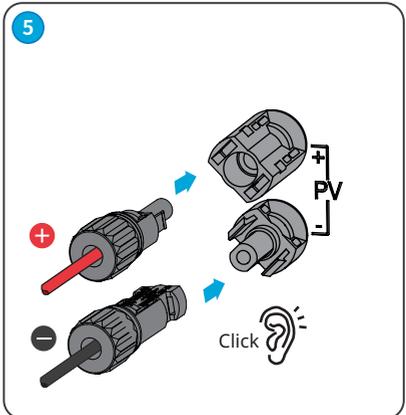
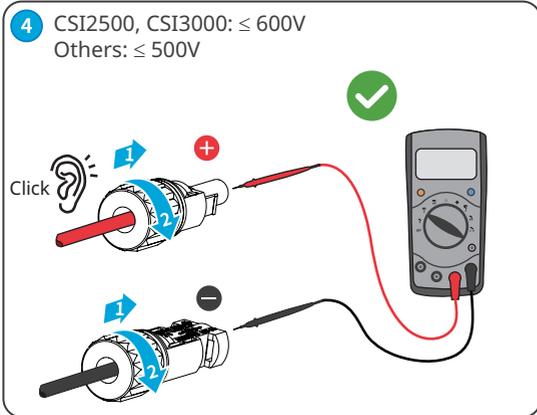
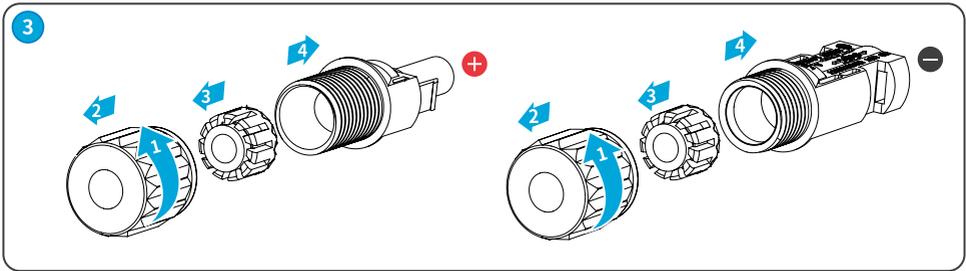
MC4 Series

MC4

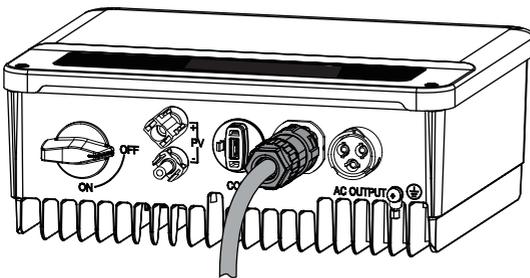


DEVALAN

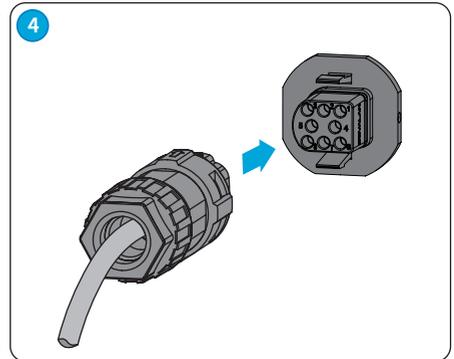
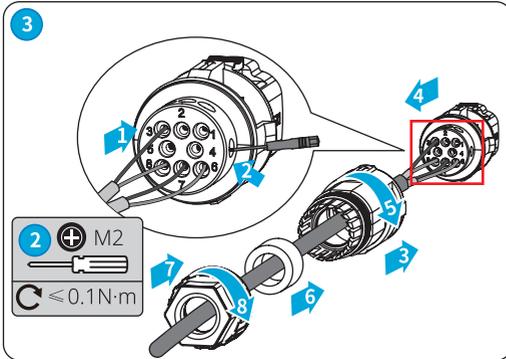
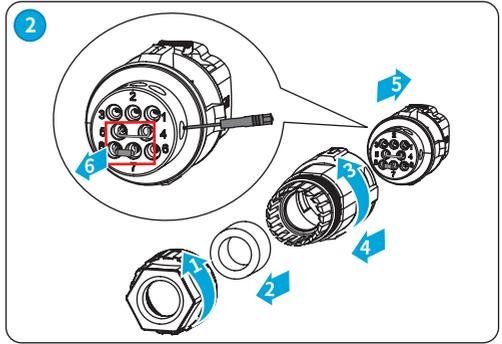
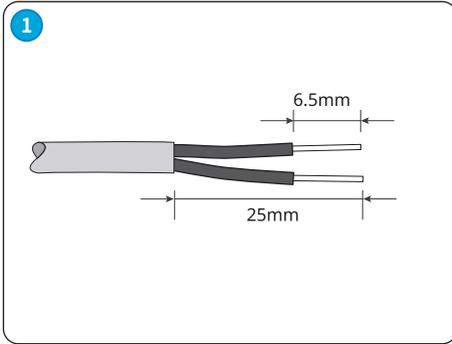




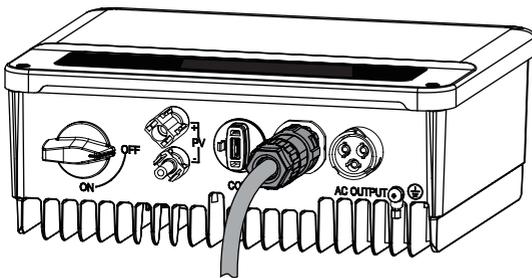
RS485 Communication Cable



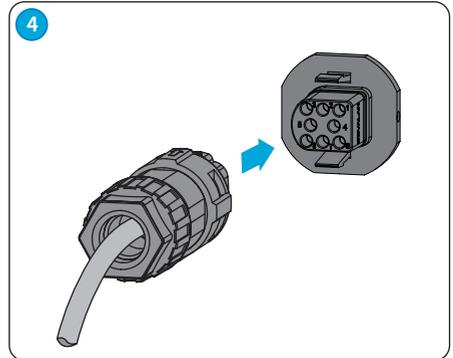
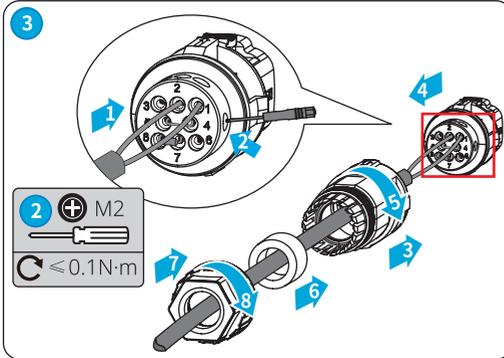
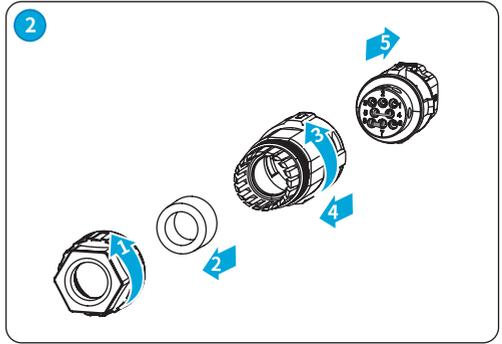
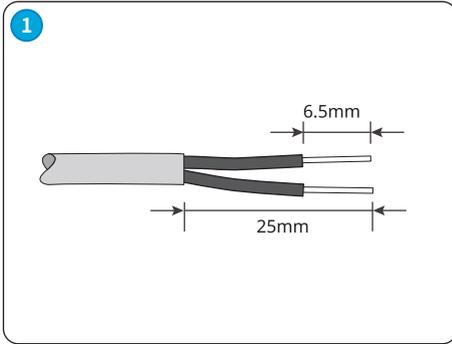
No.	Function
1	N/A
2	N/A
3	RS485-
4	N/A
5	N/A
6	RS485+
7	RS485-
8	RS485+



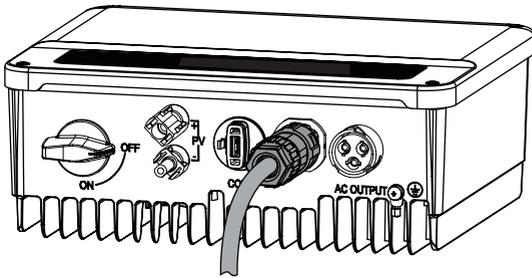
CT Communication Cable



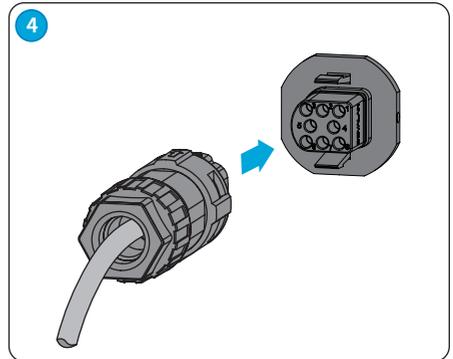
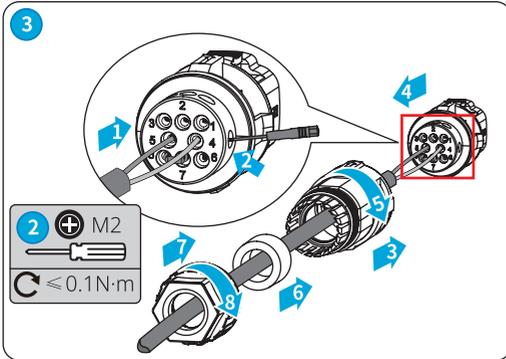
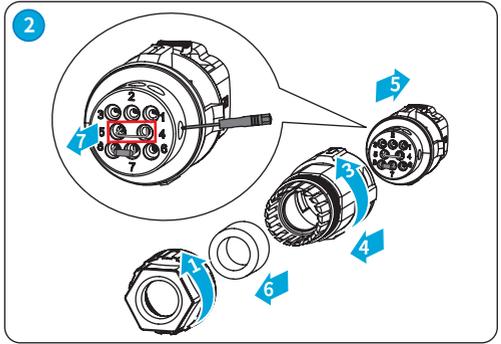
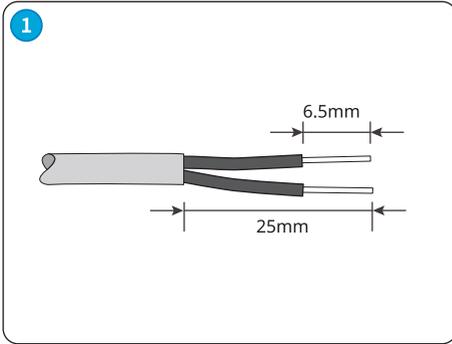
No.	Function
1	CT-
2	CT+



For Europe only: Remote Shutdown Communication Cable

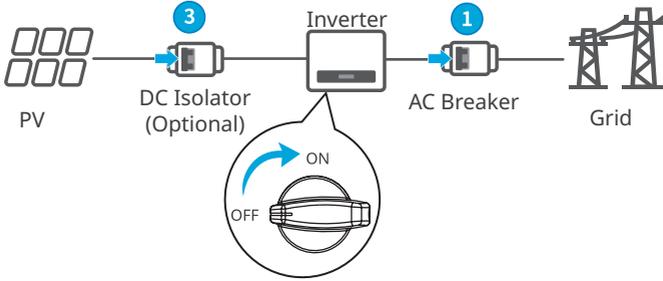
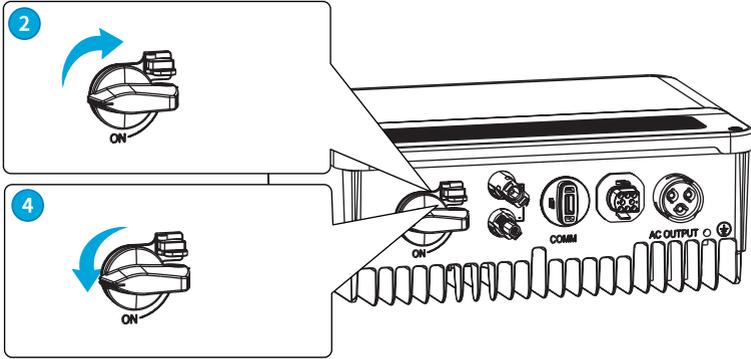


No.	Function
4	Content +
5	Content -



⚠ WARNING

Keep the Remote Shutdown Terminal installed anyway.



Power ON

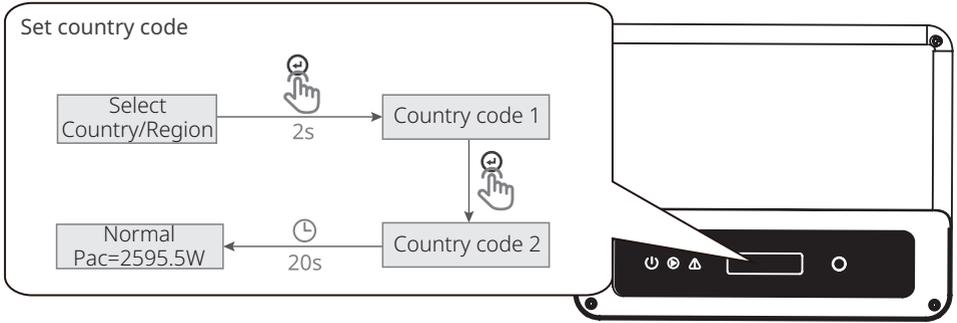
Turn on 1 → 3 → 2

Power OFF

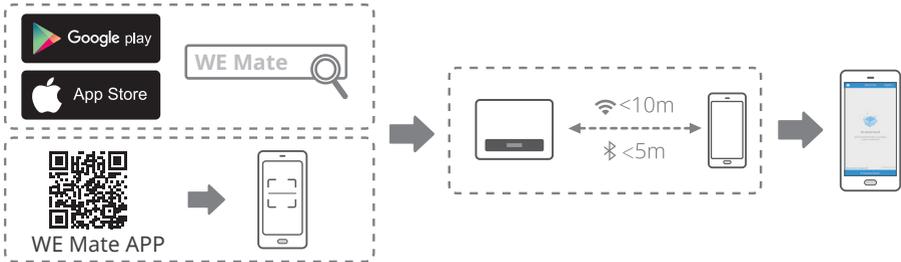
Turn off 1 → 4 → 3

06 Commissioning

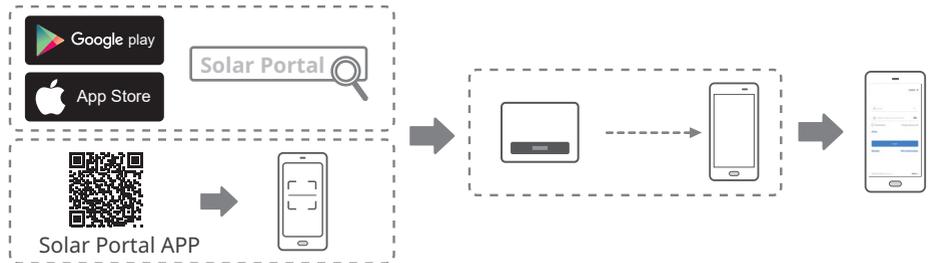
Commissioning via LCD



Commissioning via WE Mate APP



Monitoring via Solar Portal App





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