

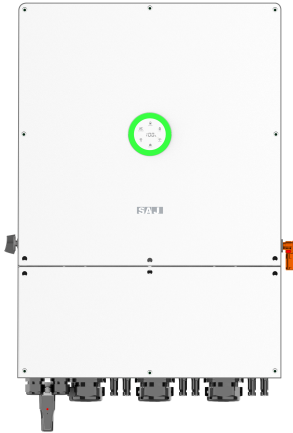
CH2 Series

Hybrid Solar Inverter

CH2-(29.9K-50K)-(T4-T6)

CH2-30K-T6-LV

Quick Installation Guide



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1. About this document

This quick installation guide provides the installation and electrical connection instructions of the SAJ product.

Scan the following QR code to obtain the latest eManuals:

Scan for eManuals



Note:

Illustrations in this document show only essential details and may differ from the actual product.



NOTICE

- This document may be updated without notice and is for guidance only. No warranties are implied.
- Read the product *User Manual* before installation for product details and safety instructions.
- Only qualified electrical professionals familiar with grid-connected PV systems and local standards may perform installation or servicing.
- Check the *Packing List* before installation; report any missing or damaged items to your dealer.
- Damage from improper installation or operation not following this document or the *User Manual* is not covered by warranty.



WARNING

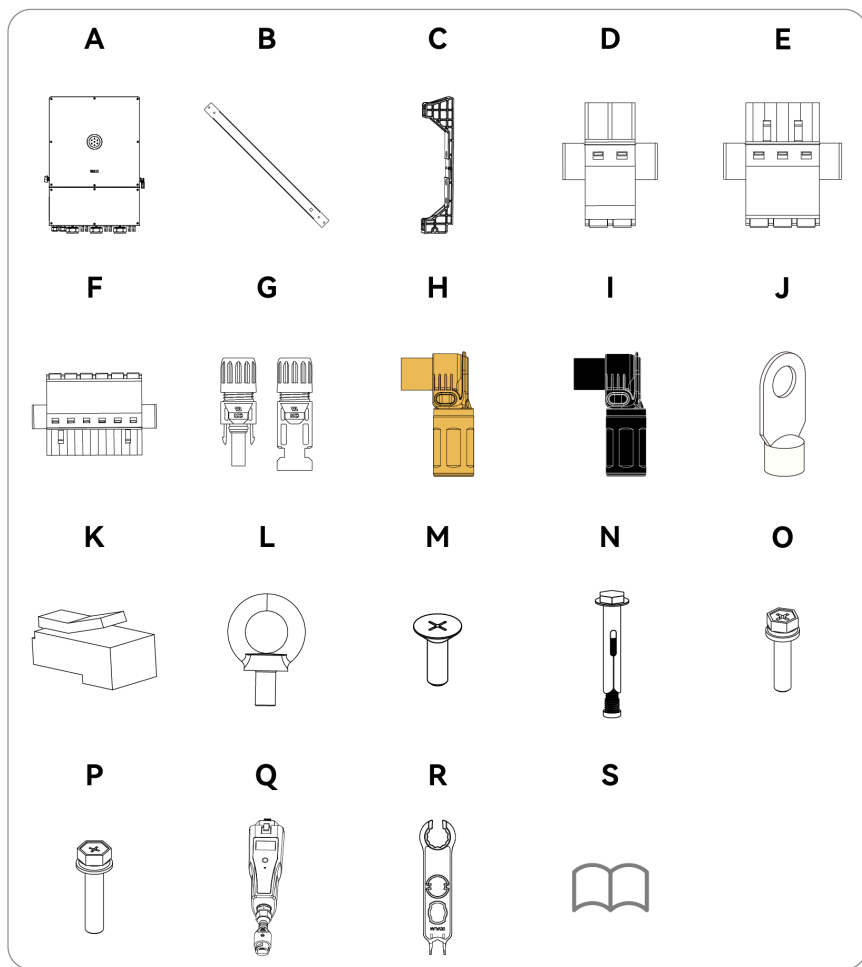
Risk of High Voltage and Electric Shock

- This device is directly connected to public grid.
- Before operation, ensure the inverter is completely disconnected from all the power sources.
- During operation, wear appropriate personal protective equipment and use insulated tools.
- Failure to follow these instructions will result in serious injury or death.

Safety symbols

Symbol	Description	Symbol	Description
	Danger: Electrical shock hazard		Caution: No disposal in residential waste
	Danger: Hot surface Do not touch metal plate housing during operating.		CE Mark
	Danger: Do not open the cabinet door until 5 minutes after disconnecting all power sources.		RoHS compliant mark
	Warning: No open flames		Caution: Check the user manual before service

2. Packing list



Number	Quantity	Designation
A	1	CH2 inverter
B	1	Back panel
C	2	Side bracket
D	2	2-pin communication connector
E	4	3-pin communication connector
F	4	6-pin communication connector

Number	Quantity	Designation
G	T4 models: 8 pairs T6 models: 12 pairs	PV positive and negative connectors
H	1	Positive battery connector (Orange)
I	1	Negative battery connector (Black)
J	• RNBS 38-8: 5 • RNB70-10: 12 • SC50-10: 12	OT/DT terminals
K	10	RJ45 plug
L	2	M12x20 eye bolts
M	4	M4x10 flat-head screw
N	4	M10x100 expansion bolt
O	2	M6x30 screw
P	4	M10x45 screw
Q	1	Communication module
R	1	PV connector removal tool
S	1	Document

3. Installation instructions

3.1. Precautions

For safety, be sure to read all the safety instructions carefully prior to any work and observe the appropriate rules and regulations of the country or region where you install the product.



DANGER

Danger to life due to potential fire or electric shock.

Do not install the product near any inflammable or explosive items.



NOTICE

This equipment meets the pollution degree.

- Inappropriate or unharmonised installation environment may jeopardize the life span of the product.
- The installation site must be well ventilated.

3.2. Installation preparation

Read the following sections to determine the installation site.

The safety regulations vary in different countries and regions. Follow local safety regulations.

3.2.1. Installation environment requirement

It is strongly suggested to install the product in an outdoor location, that is more than 2000 meters from the coast. When selecting the installation location, follow the guidelines below:

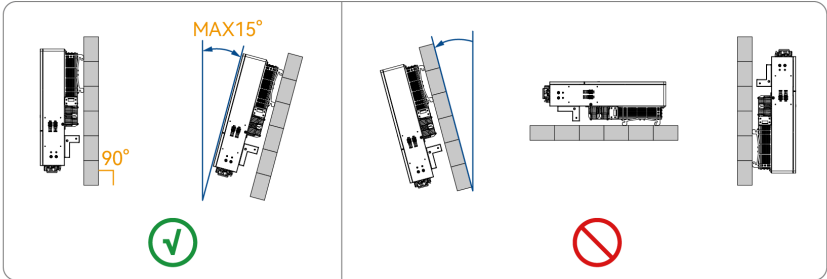
- Consult the dealer or SAJ technical support when the distance from the installation location to the coast is between 500 and 2000 meters. Do not install the product within 500 meters from the coast.
- Do not install the product in areas affected by salt damage or pollution which can lead to corrosion of the equipment.
- Do not install the product in areas with moderate or heavy dust pollution, metallic dust pollution, saline-alkali land, corrosive gas pollution, or corrosive rainwater pollution.
- Keep the air inlet and outlet at the installation site clear. If natural airflow is insufficient, add extra ventilation and consult SAJ for assistance.
- The installation environment must be free of inflammable or explosive materials.
- The product must be installed in a place away from any heat source.

- Do not install the product at a place where the temperature changes extremely.
- The height of the product from the ground should be considered to prevent the equipment from soaking in water. The specific height is determined by the site environment.

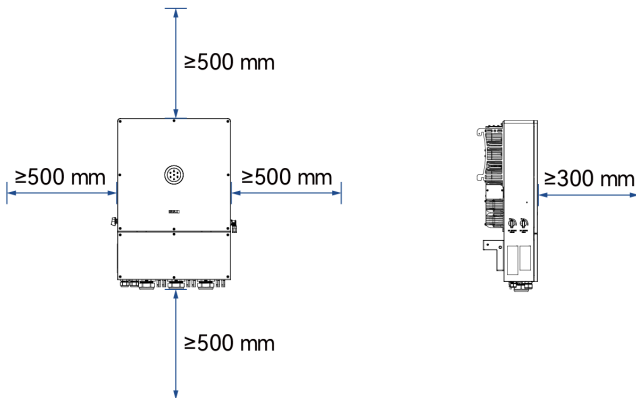
3.2.2. Plan the installation site

This device is equipped with an air conditioner for cooling and provides the ingress protection of IP 55 (Battery) and IP66 (Inverter). The device can be installed either indoors or outdoors. For outdoor installation, the equipment shall be installed in an environment of Pollution Degree 3.

1. Install the inverter vertically. Do not install it backward-tilted, forward-tilted, or horizontally.



2. Poor air ventilation will affect the working performance of internal electronic components and shorten the service life of the system. Reserve enough clearance around the product to ensure a good air circulation at the installation area.



3.2.3. Installation tools

Installation tools include but are not limited to the following recommended ones. Use other auxiliary tools on site if necessary.

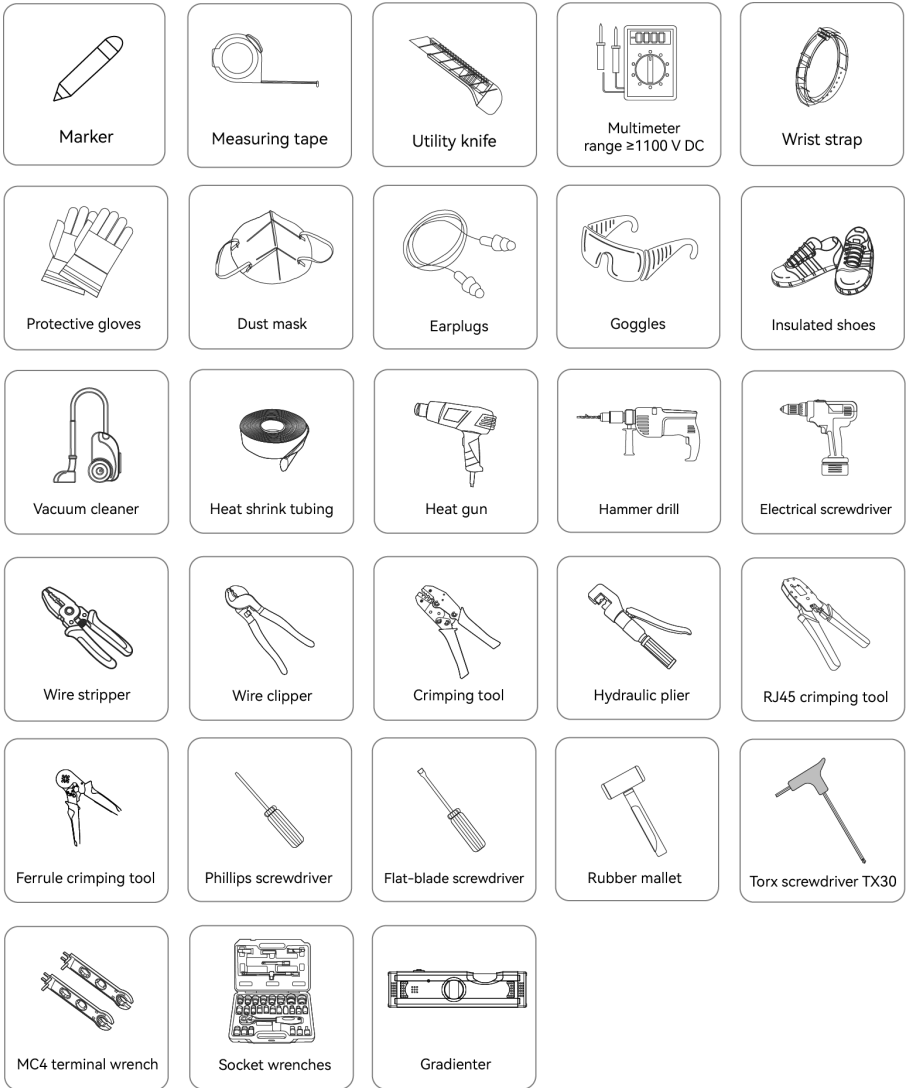


Figure 3.1. Suggested installation tools

3.3. Mount the inverter

Select one of the following options to mount the inverter:

- Mount the inverter on the wall.
- Mount the inverter on a frame. With this option, the installer needs to prepare the frame that can bear the weight of the inverter. Four M10x45 screws are provided in the delivery for securing the mounting bracket to the frame.

3.3.1. Mount the inverter on wall

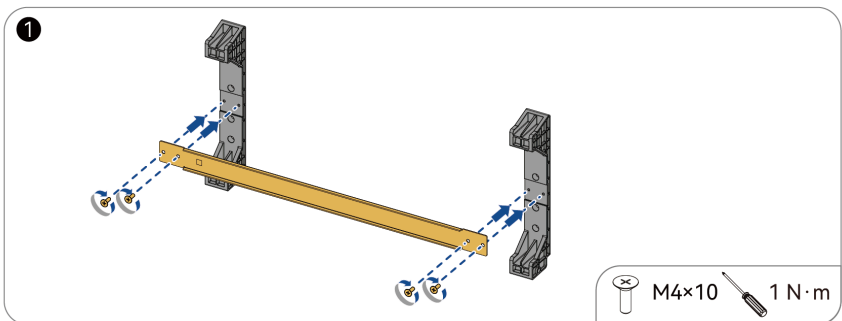


CAUTION

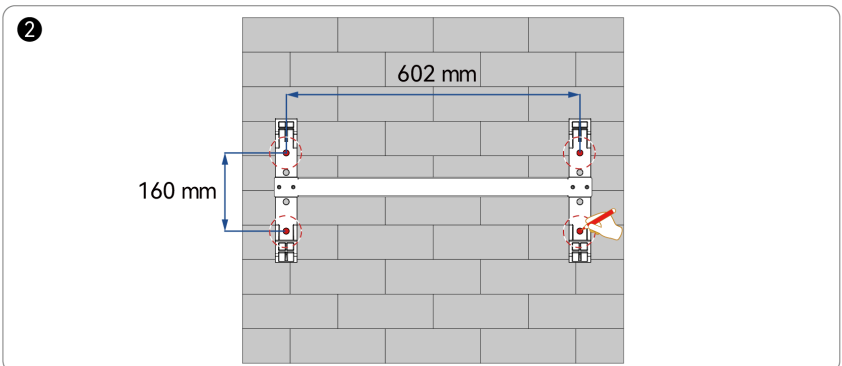
Make sure that the wall can bear the weight of the inverter and the accessories.

Procedure

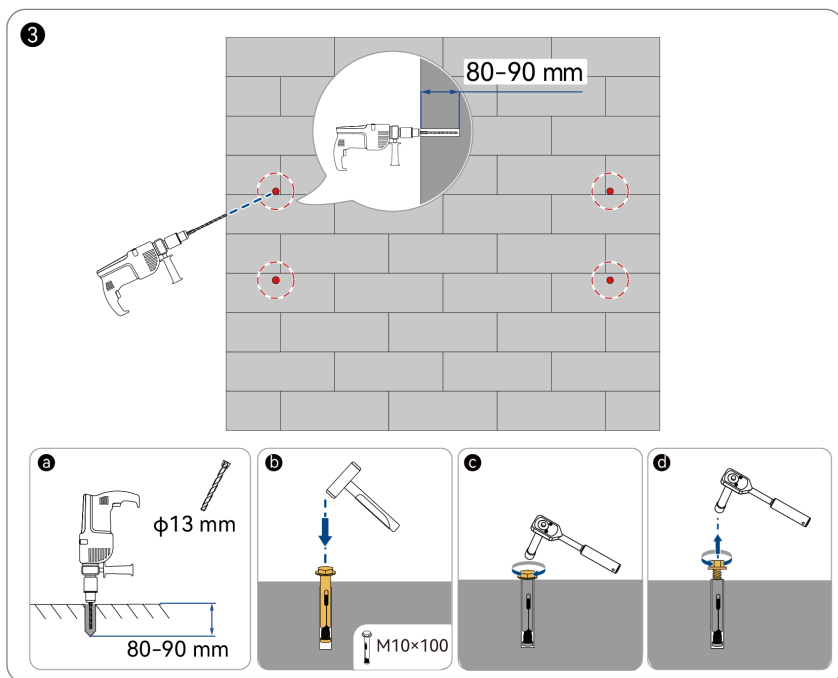
1. Secure the back panel with the two side brackets to assemble the mounting bracket.



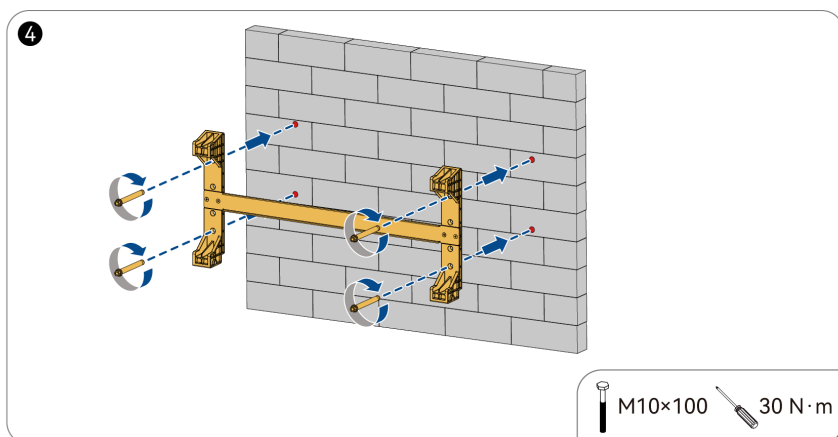
2. Mark the drilling positions on the wall with the mounting bracket.



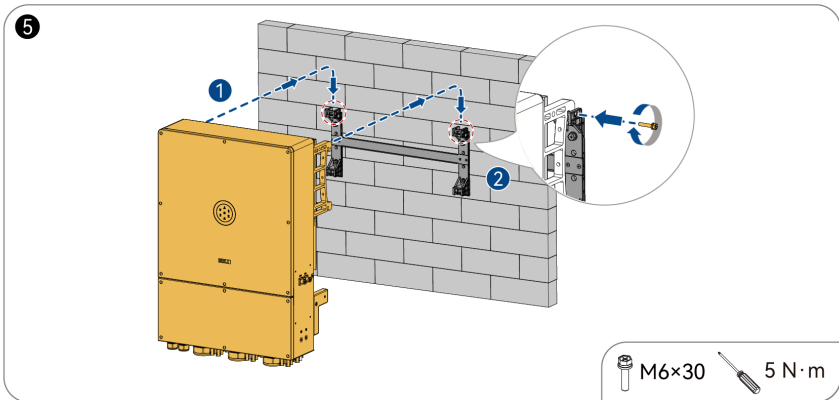
- Drill four holes at the depth of 80-90 mm in the wall and place the expansion tubes in the holes using a rubber mallet.



- Secure the mounting bracket to the wall with screws.



5. Carefully mount the inverter onto the mounting bracket. Make sure that the rear part of the inverter is closely mounted into the bracket. Secure the inverter to the mounting bracket with one screw on each side.



3.3.2. Mount the inverter on external frame

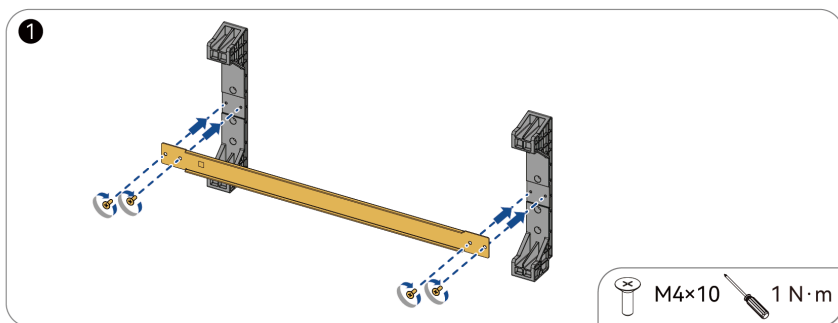


CAUTION

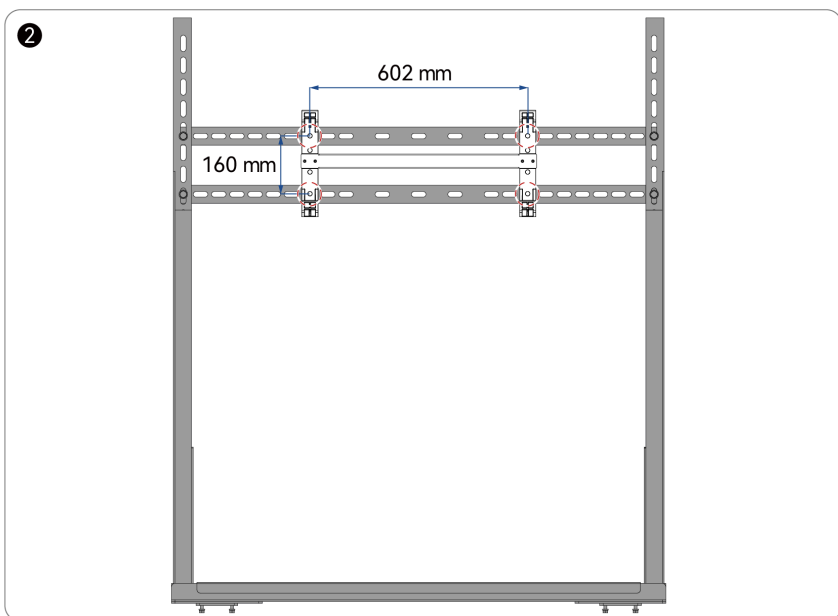
Make sure that the frame can bear the weight of the inverter and the accessories.

Procedure

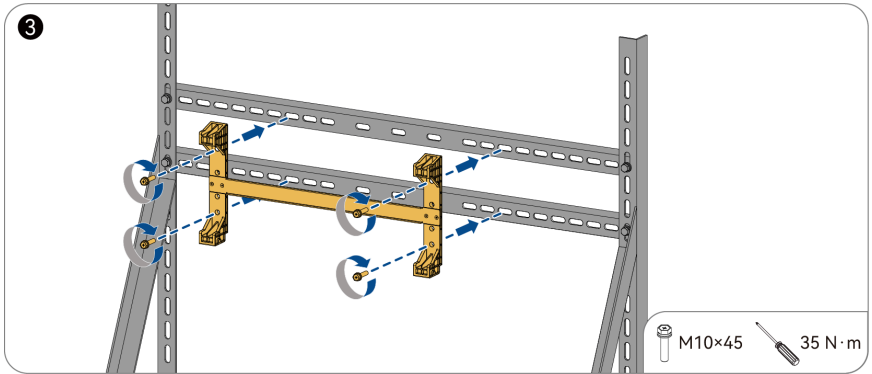
1. Secure the back panel with the two side brackets to assemble the mounting bracket.



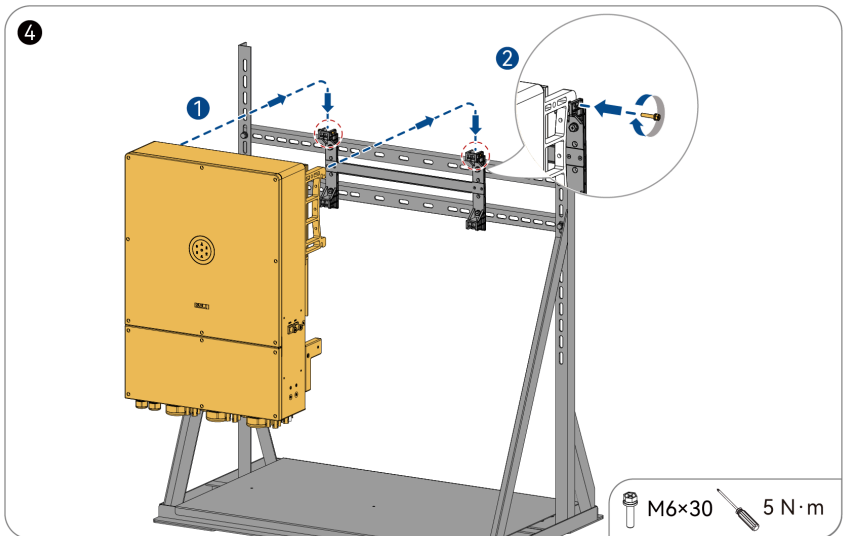
2. Drill four holes on the frame or adjust the existing positions of the frame according to the size of the mounting bracket.



3. Secure the mounting bracket to the frame with screws.



4. Carefully mount the inverter onto the mounting bracket. Make sure that the rear part of the inverter is closely mounted into the bracket. Secure the inverter to the mounting bracket with one screw on each side.



4. Electrical connection

4.1. Electrical connection safety

Electrical connection must only be operated by professional technicians. Before the operation, the technicians must wear necessary personal protective equipment (PPE) including insulating gloves, insulating shoes, and a safety helmet.



DANGER

Danger to life due to potential fire or electricity shock.

- Do not install the cabinet near any inflammable or explosive items.
- When it is powered on, the equipment should comply with national rules and regulations.



WARNING

Any improper operation during cable connection can cause device damage or personal injury.

4.1.1. Wiring guidelines

- The selection, installation, and routing of cables must comply with local laws, regulations, and standards.
- During the placement of power cables, avoid coiling or twisting. If a power cable is found to be too short, replace it entirely; do not create splices or weld joints within the cable.
- Ensure that all cables are firmly connected, have good insulation, and are appropriately sized for their application.
- Cable trays and pass-through holes should not have sharp edges. Use protective measures at conduit entrances or pass-through holes to prevent damage to cables from sharp edges or burrs.
- Group similar types of cables together and secure them neatly, ensuring they lie flat and straight without damage to the outer jacket. Different types of cables should be laid separately to avoid entanglement or crossing.
- For buried cables, use cable supports and clamps to securely fix them in place. Ensure that backfilled soil around underground cables is compacted to prevent deformation or damage during the backfilling process.

- When external conditions like installation methods or ambient temperatures change, verify the cable selection according to local regulations to ensure parameters like current-carrying capacity.
- To prevent insulation aging or damage due to high temperatures, maintain a minimum distance of 30 mm between cables and heat-generating components or heat source peripheries.

4.1.2. Ground protection

- Follow the grounding guidelines below for the equipment which is critical to ensure electrical safety and compliance with local standards:
- The impedance of the equipment's grounding system must meet the requirements specified by local electrical standards.
- The equipment must be permanently connected to a protective ground. Before operating the equipment, always check the electrical connections to ensure that the equipment is reliably grounded.
- It is strictly prohibited to operate the equipment if the grounding conductor has not been installed.
- Do not damage or tamper with the grounding conductor in any way.

4.1.3. AC- and DC-side handling

- Before installing or removing power cables, turn off all switches on both the AC and DC sides to ensure that no electrical flows through the system during the operation.
- Prior to connecting the AC side cables, verify that the phase sequence of the three-phase cables matches the silk-screen markings on the cable connectors.
- If the equipment has multiple input and output paths, disconnect all inputs and outputs before proceeding. After ensuring all power sources are disconnected, wait for at least 5 minutes to allow any residual charge in capacitors or other components to dissipate. Only then should you perform any operations on the equipment.

4.1.4. Electrostatic Discharge (ESD) Protection



CAUTION

Contact with or improper handling of printed circuit boards or other electrostatic discharge sensitive components can lead to device damage.

- Avoid unnecessary contact with circuit boards.
- Adhere to ESD protection standards, such as wearing an anti-static wrist strap.

4.1.5. Earth fault alarm monitoring

This inverter is of transformer-less design and therefore does not provide galvanic isolation between the DC and AC sides. To comply with safety requirements, it incorporates earth fault alarm monitoring function in accordance with *IEC 62109-2, clause 13.9*. This function continuously checks the insulation resistance of the PV array to earth.

If an earth fault is detected due to damaged cables, moisture ingress or similar reasons, the inverter responds as follows:

- The LED light illuminates **red**.
- An error code **<31>** is displayed in the elekeeper App.



NOTICE

This inverter **must not be connected to functionally earthed PV arrays**, where either the positive or negative pole is permanently connected to earth. Such installations would be interpreted as a permanent earth fault, causing continuous false alarms and potentially damaging the inverter's internal circuitry.

4.2. Plan the cable connections

4.2.1. Single deployment

On-grid and backup

The following diagram shows the system connections of a single machine where both the backup and the on-grid loads are enabled.

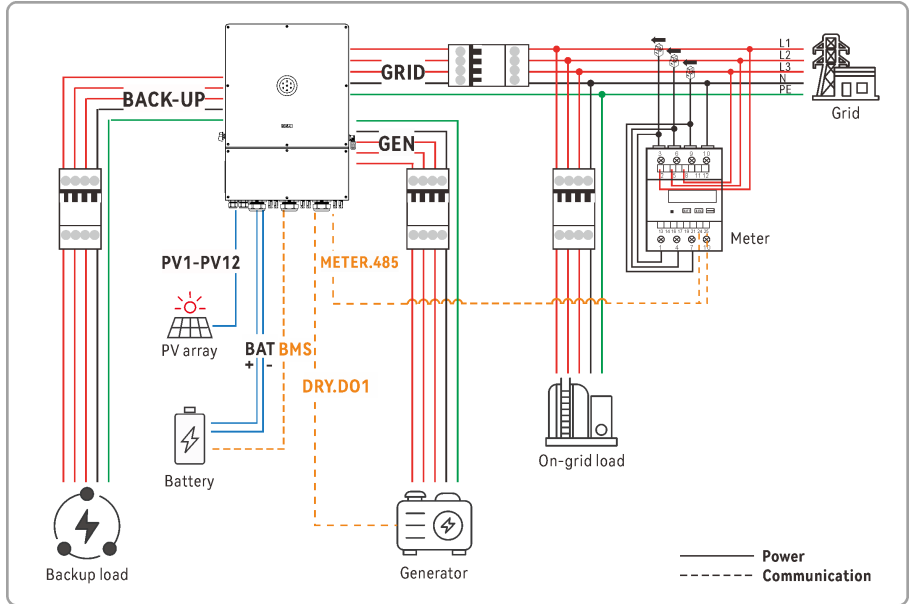


Figure 4.1. Single deployment with on-grid and backup connections

On-grid only

The following diagram shows the system connections of a single machine where only the on-grid loads are enabled.

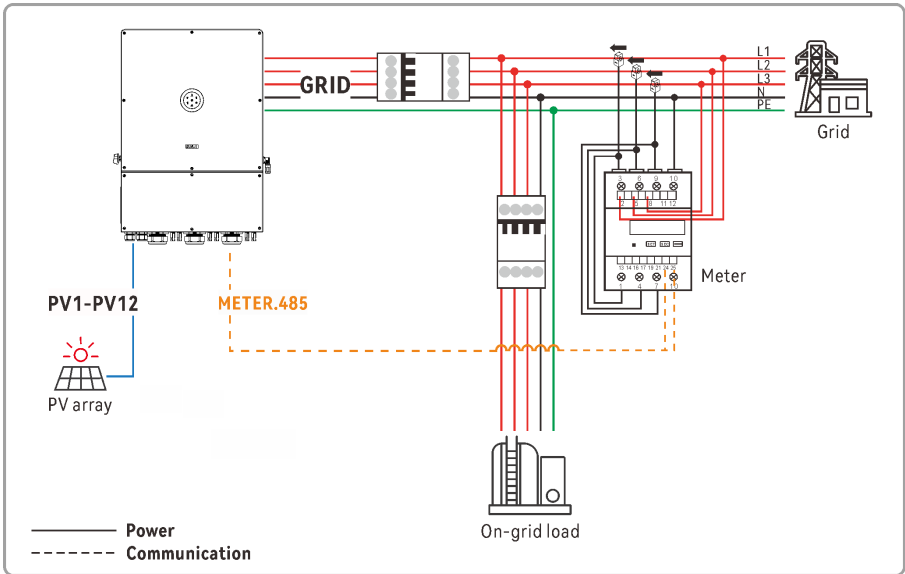


Figure 4.2. Single deployment with on-grid connection

4.2.2. Parallel deployment

The CH2 inverters support parallel deployment of 10 inverters at maximum for different application scenarios.

On-grid and backup

The following diagram shows the system connections of parallel deployment where both the backup and the on-grid loads are enabled.

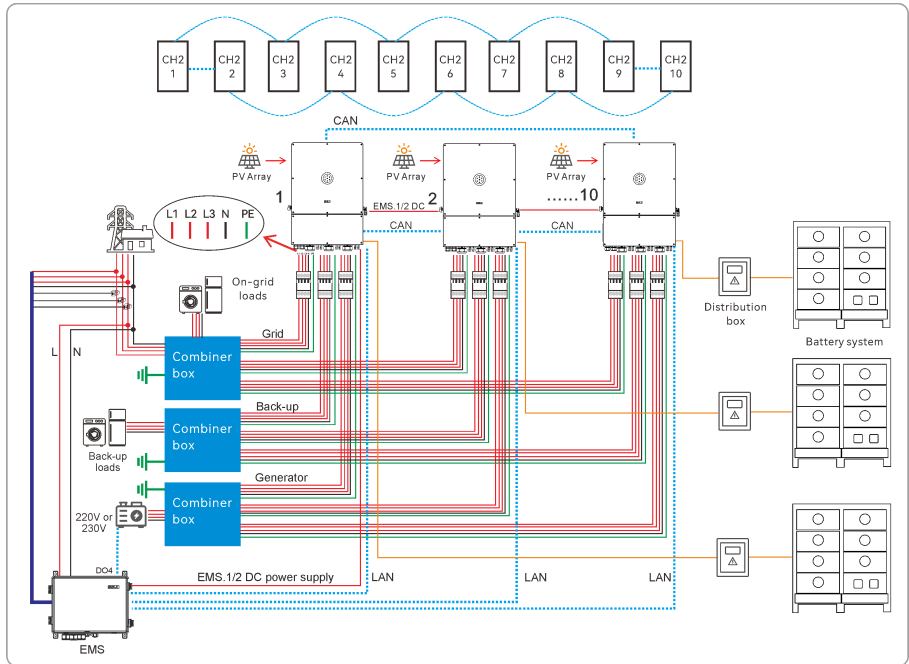


Figure 4.3. Parallel deployment with on-grid connection

The following figure shows the detailed cable connections of EMS:

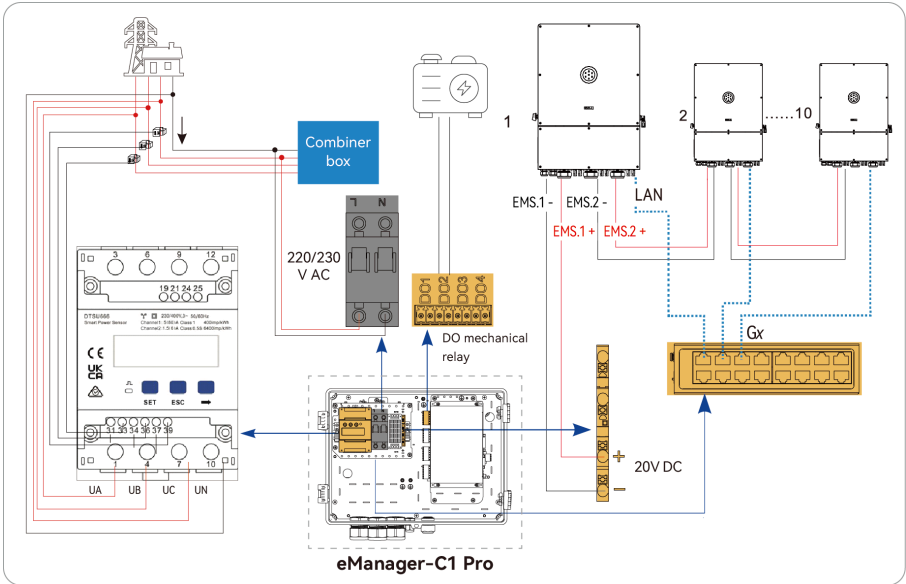


Figure 4.4. EMS cable connections in parallel deployment

On-grid only

The following diagram shows the system connections of parallel deployment where only the on-grid loads are enabled.

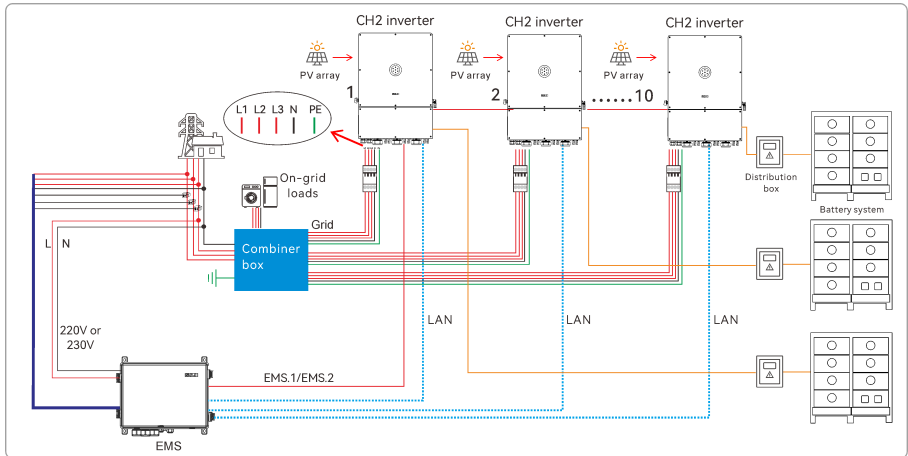


Figure 4.5. Parallel deployment with on-grid connection

Note:

In this case, prepare a circuit breaker between the inverter and the battery system according to the rated energy of the battery system.

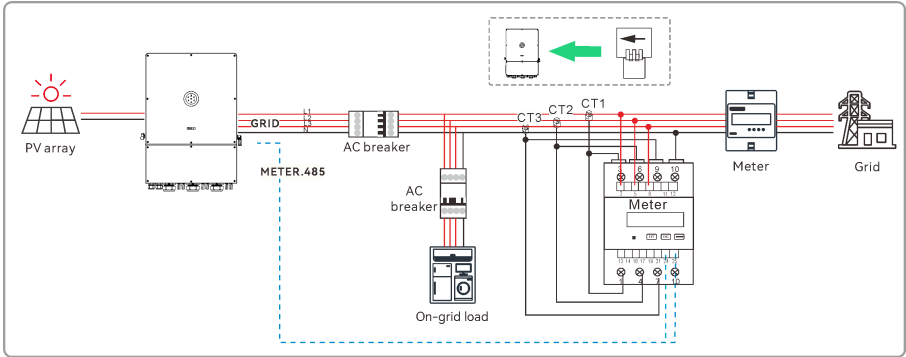
4.2.3. Meter connection solutions

CH2 series inverters support the following meter connection solutions. Plan the meter connection according to actual customer requirements.

For customized requirements and solutions, contact SAJ product support.

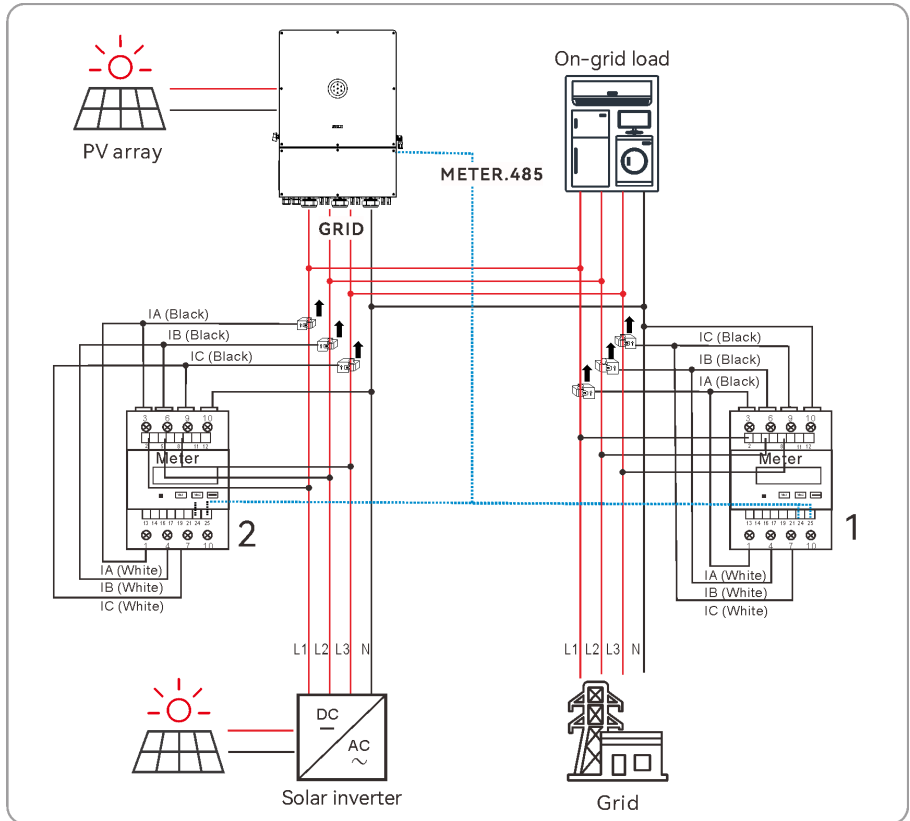
One meter for single deployment

The directional arrow on the CT must point towards the inverter.



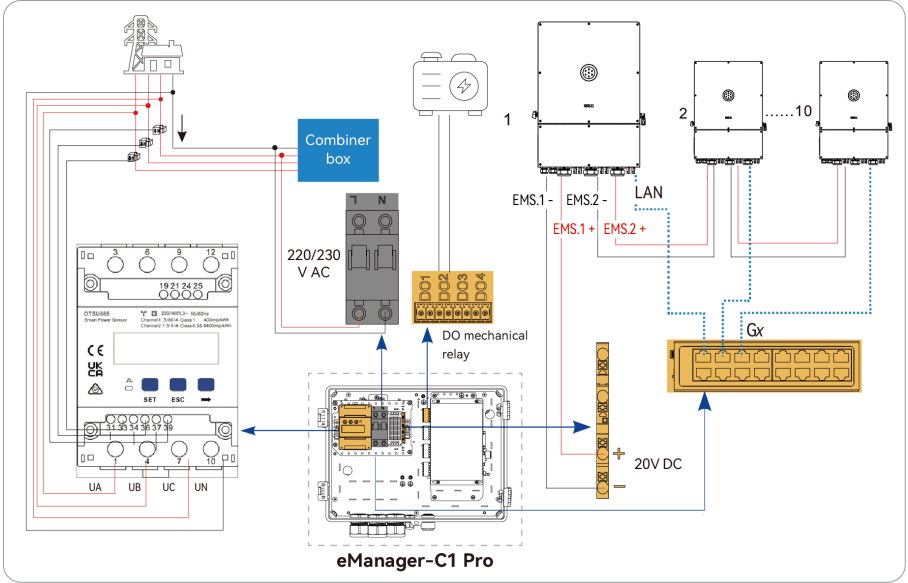
Two meters for single deployment with a solar inverter

The second PV meter can be installed for the solar inverter and reports data to CH2 through RS485 connection.



Parallel deployment

In parallel deployment, follow the diagram below to connect to the meter integrated in the EMS communication box. During commissioning, configure the export limit control function on the elekeeper App according to local grid requirements and regulations.



4.3. Prepare electrical cables

Prepare the items listed in this section before installation.

Grounding cable

Cable type	Conductor cross-sectional area (mm ²)	Connecting terminal
Outdoor multi-core copper wire cable	35	RNB38-8 OT terminal in the package

Table 4.1. Grounding cable

PV power cables

Cable type	Conductor cross-sectional area (mm ²)	Maximum current (A)
Outdoor single-conductor PV cable (≥1000V DC)	4.0-6.0	30-35

Table 4.2. PV power cable

Communication cables

Port	Cable type / Connecting terminal	Maximum length (m)
- METER.485 - EMS	Standard CAT6 outdoor shielded network cable. Use the RJ45 connectors in the package to assemble the cables.	300
- LAN - Parallel1, Parallel2		100
- BMS.1 - BMS.3		20

Table 4.3. RJ45 communication cables

Cable type	Conductor cross-sectional area (mm ²)	Connecting terminal
Multi-core high-temperature outdoor communication cable	0.20-3.31	2/3/6-pin connectors installed on the communication terminal block of the inverter.

Table 4.4. 2/3/6-pin communication cables

AC power cables - single deployment

Cable type: Outdoor multi-core high-temperature cable ($\geq 400V$)

The following table specifies the required **GRID**, **GEN**, and **BACK-UP** AC cable gauges when the backup output is active in single deployment. Under this configuration, the Grid and the Generator are capable of powering the backup loads and simultaneously charging the battery.

Model	Cable cross-sectional area (mm²)		Conductor material
	Range	Recommended	
CH2-29.9K-T4	16-35	25	Copper
CH2-30K-T4	16-35	25	
CH2-49.9K-T6	25-70	50	
CH2-50K-T6	25-70	50	
CH2-30K-T6-LV			

Table 4.5. Single deployment with on-grid and backup connections

The following table specifies the required **GRID** AC cable gauges when the backup output is disabled in single deployment:

Model	Cable cross-sectional area (mm²)		Conductor material
	Range	Recommended	
CH2-29.9K-T4	16-35	16	Copper
CH2-30K-T4	16-35	16	
CH2-49.9K-T6	25-70	25	
CH2-50K-T6	25-70	25	
CH2-30K-T6-LV			

Table 4.6. Single deployment with on-grid connection

Note:

When the grid-connection distance is large, select AC cables with larger diameter for the actual condition.

AC power cables - parallel deployment

Cable type: Outdoor multi-core high-temperature cable ($\geq 400\text{V}$)

The following table specifies the required **GRID**, **GEN**, and **BACK-UP** AC cable gauges when the backup output is active in parallel deployment.

Model	Cable cross-sectional area (mm ²)		Conductor material
	Range	Recommended	
CH2-49.9K-T6	70-120	70	Copper
CH2-50K-T6	70-120	70	
CH2-30K-T6-LV			

Table 4.7. Parallel deployment with on-grid and backup connections

Note: When the backup output is active, the power cable length must meet the following requirements:

- All the power cables from the **BACK-UP** terminals of the inverters in the combined cabinet to the combiner box shall be of equal length.
- All the power cables from the **GEN** terminals of the inverters in the combined cabinet to the combiner box shall be of equal length.

The following table specifies the required **GRID** AC cable gauges when the backup output is disabled in parallel deployment:

Model	Cable cross-sectional area (mm ²)		Conductor material
	Range	Recommended	
CH2-49.9K-T6	25-70	25	Copper
CH2-50K-T6	25-70	25	
CH2-30K-T6-LV			

Table 4.8. Parallel deployment with on-grid connection

Note:

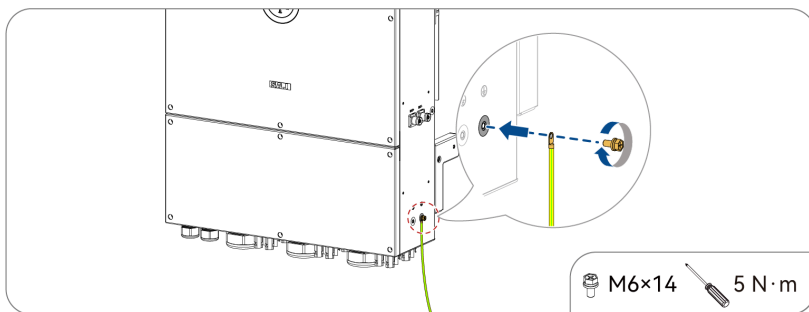
When the grid-connection distance is large, select AC cables with larger diameter for the actual condition.

4.4. Connect the grounding cable



WARNING

Connect the grounding cable before other electrical connections.



Procedure

1. Assemble the cable with the RNBS38-8 OT/DT terminal.
2. Remove the screw from one of the grounding terminal, insert the screw through the OT/DT terminal, and tighten the cable with the screw.

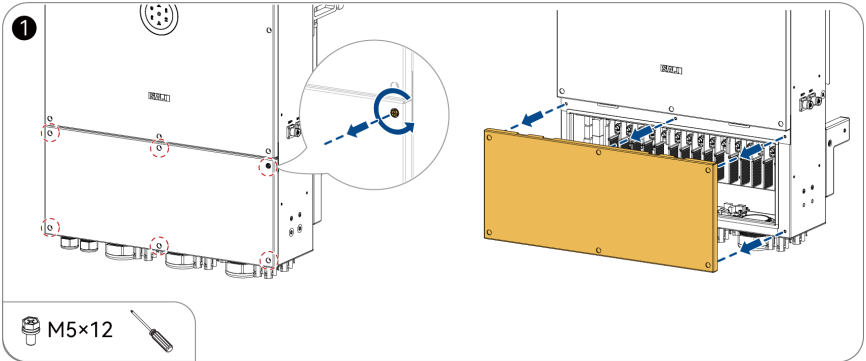
Two grounding connection points are provided for cable connection convenience. Select one of the ports for connection.

3. Connect the other cable end to the external earthing bar.

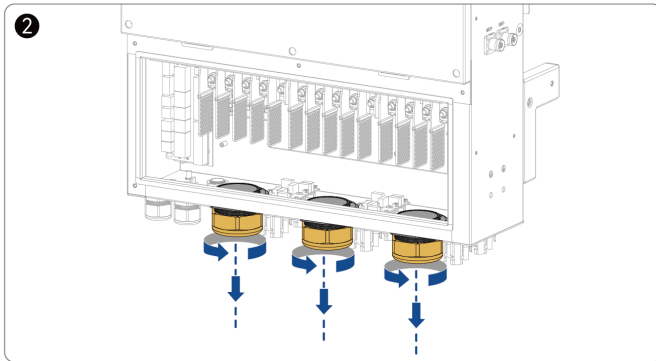
4.5. Connect the AC power cables

Procedure

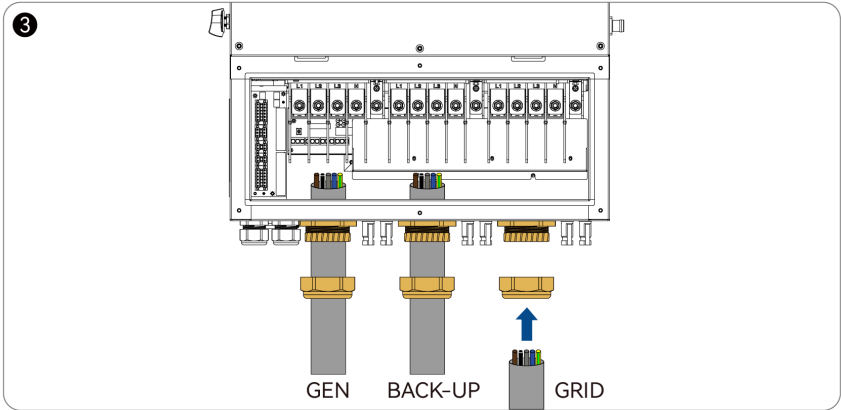
1. Remove the front cable cover of the inverter.



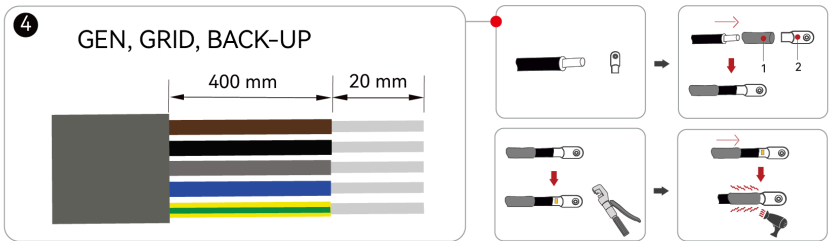
2. Loosen the water-proof nuts of **GEN**, **BACK-UP**, and **GRID** cable glands at the bottom of the inverter.



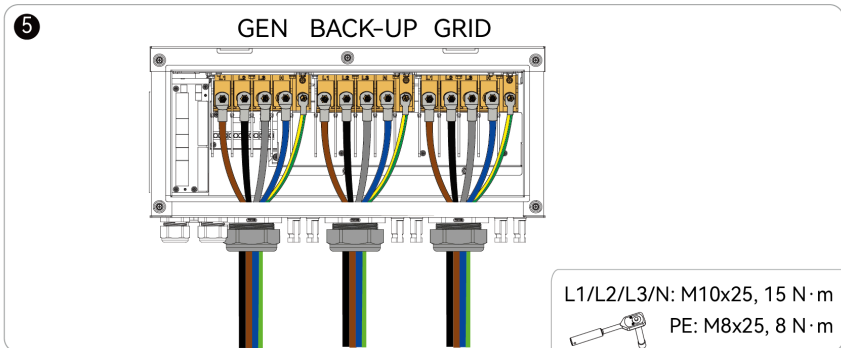
3. Pass the AC cables through the corresponding cable glands at the bottom of the inverter.



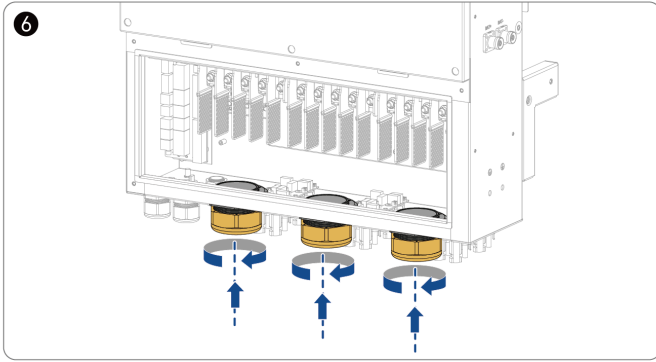
4. Peel off the insulation skin of the AC cables at proper length and crimp the cable ends with the RNB70-10 or SC50-10 OT/DT terminals tightly. Select the corresponding terminals depending on the cable specification.



5. Loosen the screws on the **L1, L2, L3, N** and **PE** ports. Secure the AC cables to the corresponding ports of **L1, L2, L3, N** and **PE** with the screws.



6. Fasten the water-proof nuts of **GEN**, **BACK-UP**, and **GRID** cable glands at the bottom of the inverter.



4.6. Connect to the third-party battery system

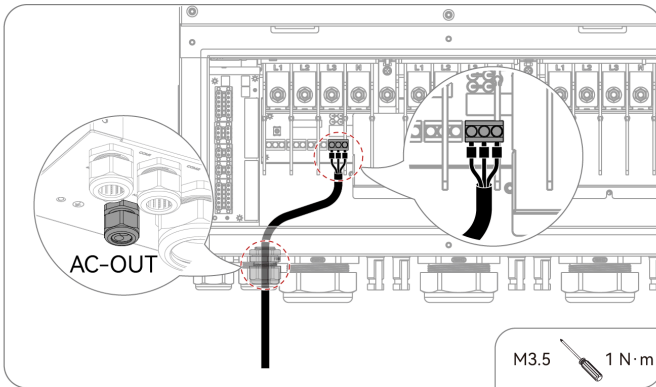
The inverter **AC-OUT** port provides 220V AC power supply that can be connected as needed for third-party battery systems. For example, the air conditioner power supply of the third-party system.

Procedure

1. Prepare the AC power supply cable according to the following specification:

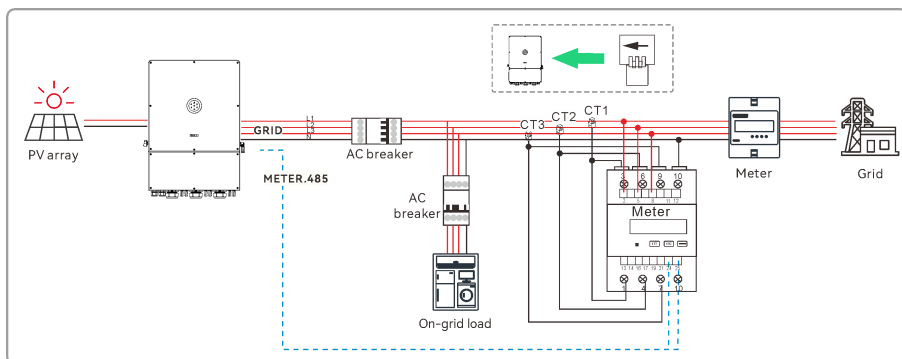
Cable	Conductor cross-sectional area range (mm ²)	Terminal connector
220V AC power supply cable	1-5	Tubular E2508

2. Crimp and connect one cable end to the inverter. Connect the other cable end to the third-party battery system.



4.7. Connect the PV meters

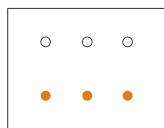
Connect the PV meter cables according to the meter connection solution diagrams.



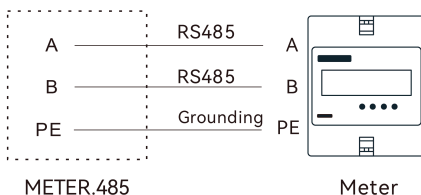
Procedure

1. Connect the meter power cables and CT cables. Point the CTs to the inverter.
2. Connect the RS485 communication cables between the inverter 3-pin **METER.485** port and the meter communication port.

Meter



PE B A
METER.485



METER.485

Meter

4.8. Connect the communication cables

Follow this common procedure to connect the 2-pin, 3-pin, 6-pin, and RJ45 communication cables for the corresponding functions.

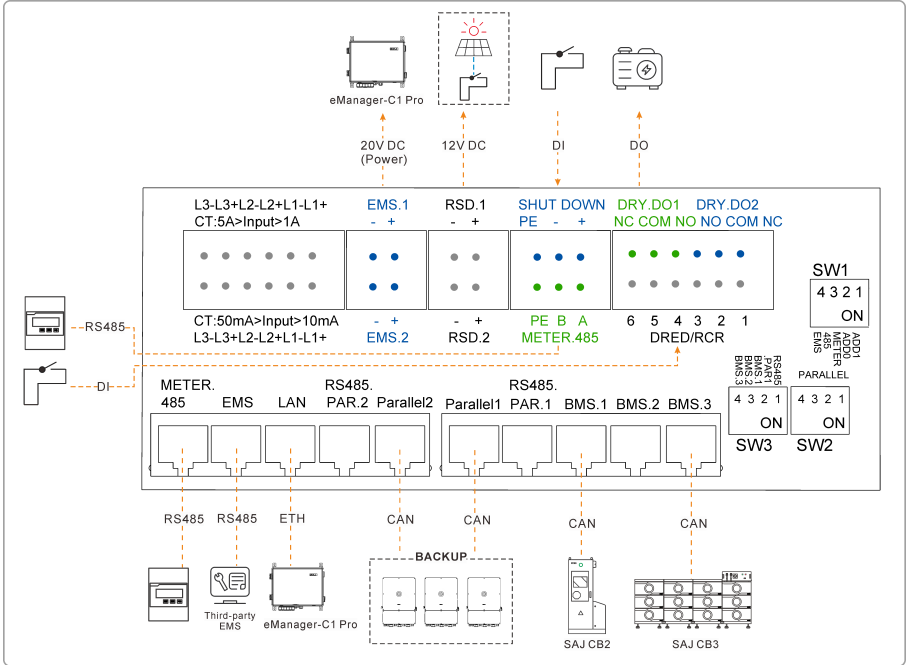
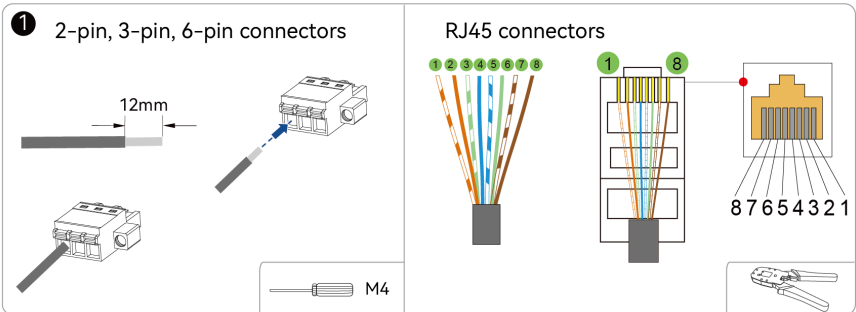


Figure 4.6. Communication connection overview

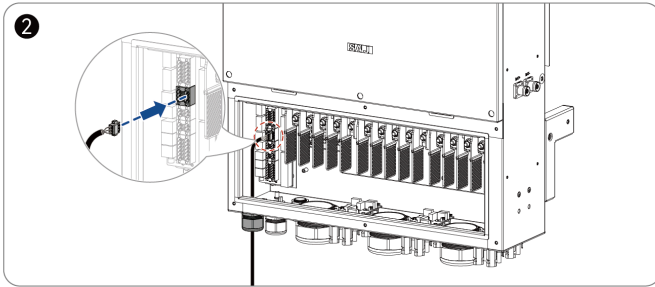
Procedure

1. Assemble the pin connectors and RJ45 connectors according to the actual requirement.



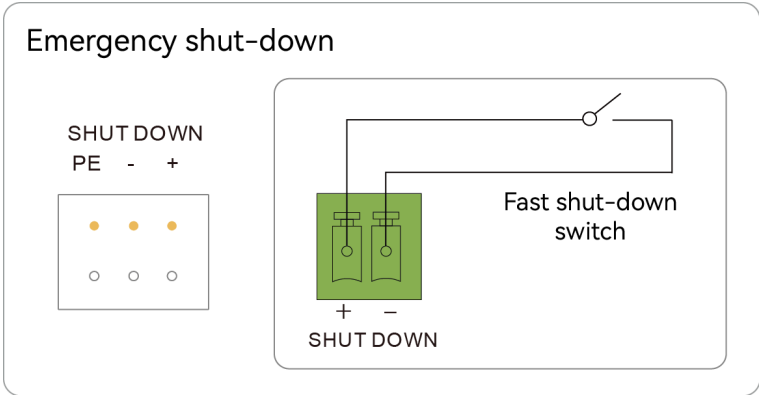
2. Connect the communication cables to the corresponding ports.

Example: Connect the 3-pin cable as follows:



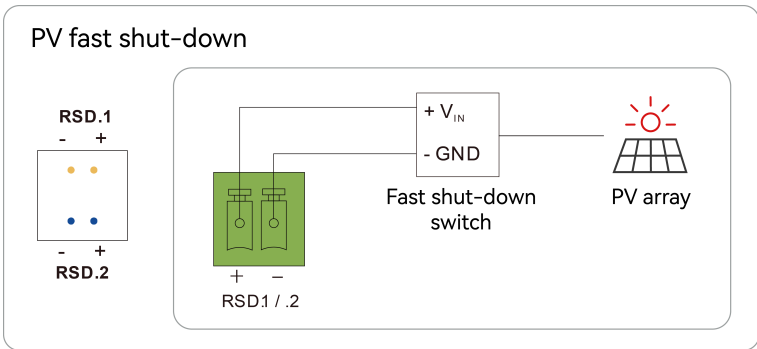
4.8.1. Connect the emergency shutdown device

The 3-pin **SHUT DOWN** port can connect with an external switch to stop the inverter immediately in emergent situations.



4.8.2. Connect the PV fast shutdown device

The **RSD.1** and **RSD.2** ports can supply power to the fast shutdown module of the photovoltaic system at the rated voltage of 12 V. The two ports can control the fast shutdown and startup of the PV system by turning on or off the power supply to the fast shutdown module.



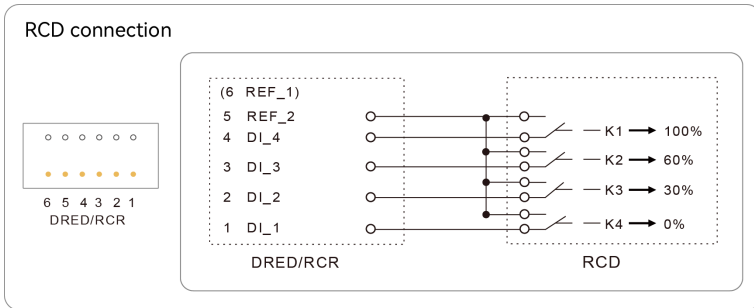
4.8.3. Connect the RCR device

According to the local regulations, a ripple control receiver (RCR) device is required to control the maximum output power that is exported to the grid.

When the RCR device connecting to the DI port is closed, the device signals the inverter to export power to the grid at the corresponding level that is configured for the **RCR Power Settings** on the elekeeper App. Each port corresponds to the following settings on the App:

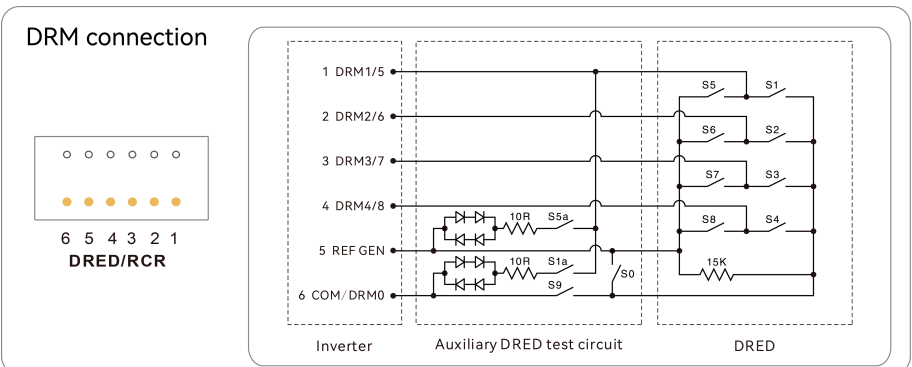
- **DI1:** LEVEL1
- **DI2:** LEVEL2
- **DI3:** LEVEL3
- **DI4:** LEVEL4

The rated power control limit of K1 to K4 devices increases. Connect the devices accordingly to the 6-pin **DRED/RCR** ports **DI1** to **DI4**.



4.8.4. Connect the DRED device (Australia and New Zealand)

According to the local regulations in Australia and New Zealand, a DRED device is required for demand response modes (DRM) control. Connect the DRED device to the following 6-pin **DRED/RCR** port:

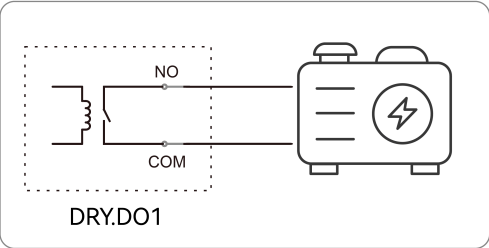
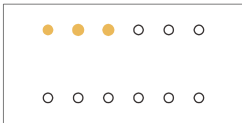


4.8.5. Connect the generator communication

Connect the generator to the 2-pin **GEN** port to control the start and stop of the generator:

Generator start/stop

DRY.DO1 **DRY.DO2**
NC COM NO NO COM NC

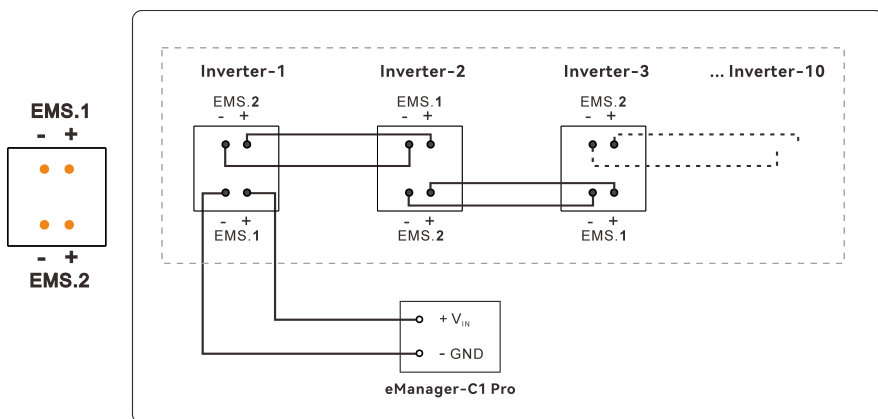


4.8.6. Connect the parallel deployment communication

For CH2 parallel deployment, connect the communication cables as illustrated in section *Parallel deployment*..

- The **EMS.1** and **EMS.2** ports can supply power to the energy management system (EMS) at the rated output voltage of 20 V DC in parallel deployment. In parallel deployment, multiple inverters can supply power to the EMS at the same time, and at least two inverters must provide the power supply to the EMS. The length of the power supply wire to the EMS is limited to 50 meters.

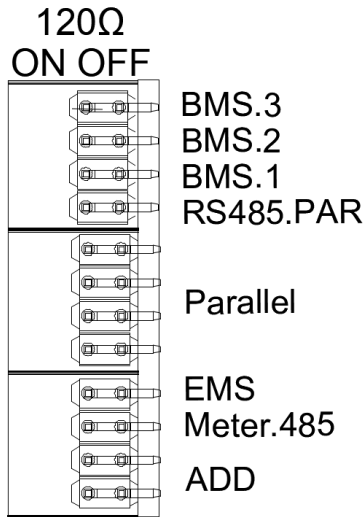
For the 20V DC power input connection, connect the 2-pin communication cables according to the following diagram:



- When the inverters are deployed in parallel, the generator needs connect to the **DO4** interface of eManager-C1 Pro for the start and stop control.

4.8.7. Turn on DIP switches

The dual inline package (DIP) switches are provided to control the activation of 120 Ω terminal resistors to ensure the communication stability of the corresponding communication functions.



After all the communication cables are connected, turn on the corresponding DIP switch according to the following instructions:

Switch	Description
BMS.3, BMS.2, BMS.1	For the CAN communication between battery management systems (BMS). Turn the switch on when the corresponding BMS connection is enabled.
RS485.PAR	For RS485 PAR1 communication. Turn the switch on as needed.
Parallel	For cabinet parallel deployment. Turn the switches to the ON position on the two cabinets that are physically farthest apart.
EMS	For RS485 communication with the EMS. Turn the switch on as needed.
METER.485	For RS485 communication with the external meters. Turn the switch on as needed.
ADD	Reserved for future use.

Table 4.9. DIP switches

4.9. Connect the PV cables

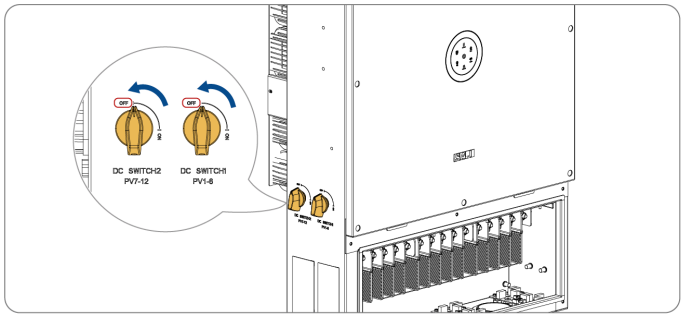
Before you begin



WARNING

Risk of electric shock

Make sure that the two PV switches on the inverter are turned off before the electrical connections.



- Prepare a multimeter with DC voltage range larger than 1000 V. Multimeter of lower measurement range can be damaged.

PV cable connection guidelines:

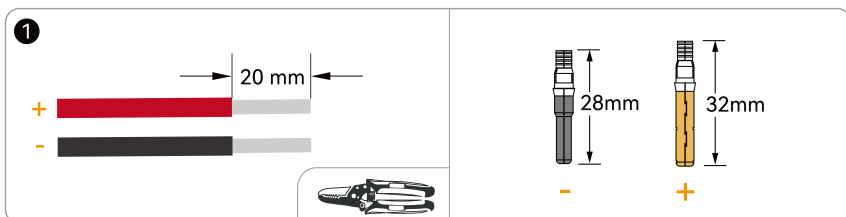
- Evenly distribute the PV input cables across the PV input terminals.
- Maximize the number of MPPT inputs.
- PV strings connected to the same MPPT circuit must use solar panels of the same model and in the same quantity.

Number of PV array	Inverter PV terminal	Number of PV array	Inverter PV terminal
1	PV 1	7	PV 1, 2, 3, 5, 7, 9, 11
2	PV 1, 3	8	PV 1, 2, 3, 4, 5, 7, 9, 11
3	PV 1, 3, 5	9	PV 1, 2, 3, 4, 5, 6, 7, 9, 11
4	PV 1, 3, 5, 7	10	PV 1, 2, 3, 4, 5, 6, 7, 8, 9, 11
5	PV 1, 3, 5, 7, 9	11	PV 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
6	PV 1, 3, 5, 7, 9, 11	12	PV 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

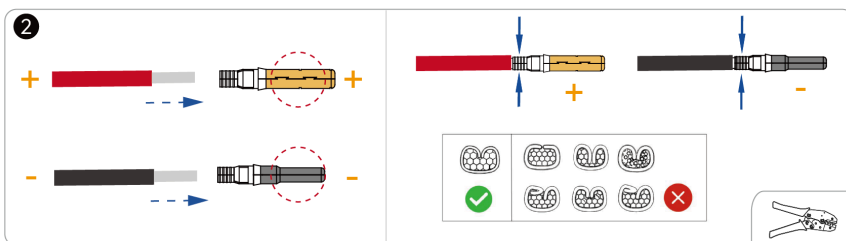
Table 4.10. MPPT terminal connection guideline

Procedure

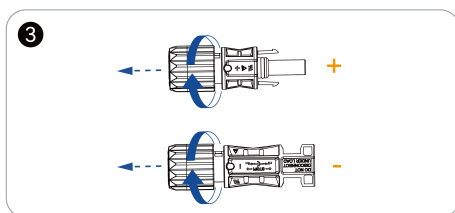
1. Use a wide-bladed screwdriver to strip off the insulation layer by 20 mm from one end of each PV power cable.



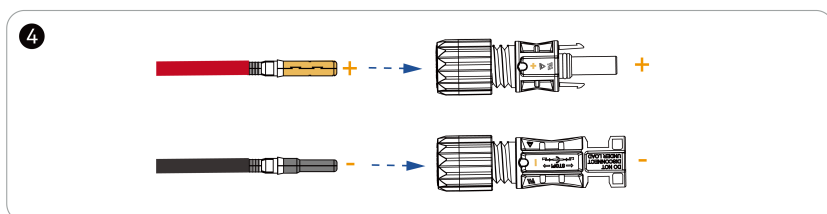
2. Insert the cable ends to the sleeves. Use crimping pliers to assembly the cable ends.



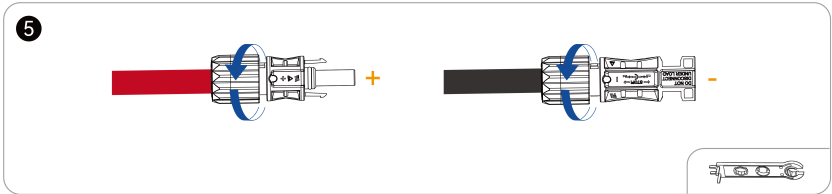
3. Loosen the lock screws on the positive and negative connectors.



4. Insert the positive and negative cables into the positive and negative connectors. Gently pull the cables backward to ensure firm connection.

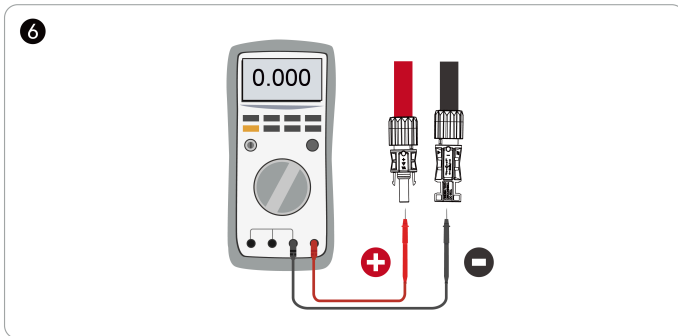


5. Tighten the lock screws on the positive and negative cable connectors with the D4 assembly tool.

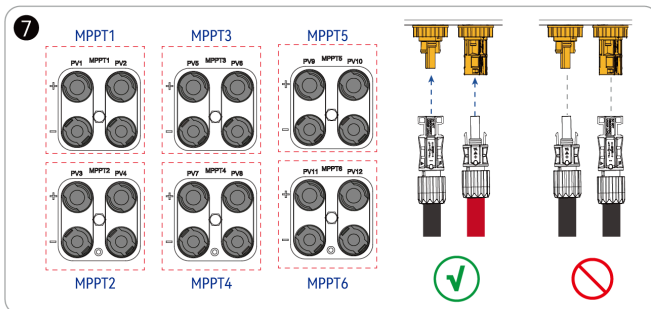


6. Measure the DC voltage of each positive and negative PV input cable with the multimeter.

Make sure that each PV input shows DC voltage around 1000 V with correct polarity.



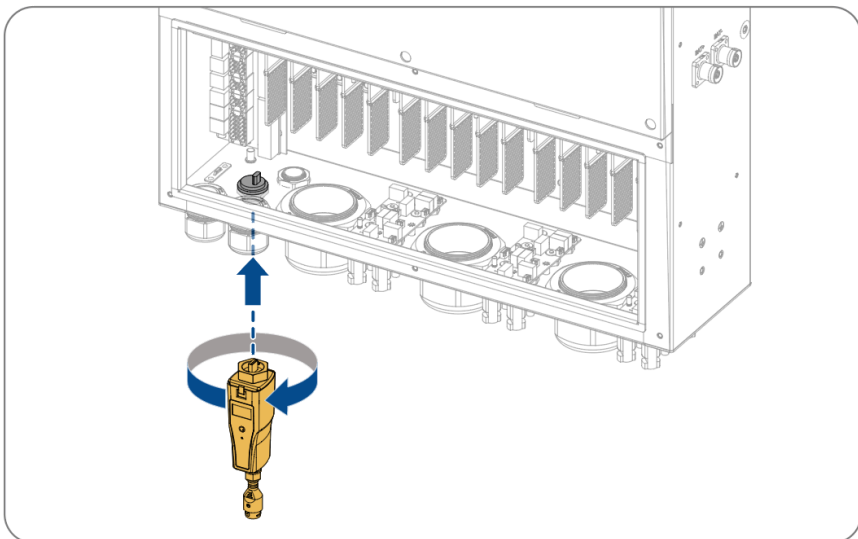
7. Insert the positive and negative cable connectors into the positive and negative PV ports on the inverter until a “click” sound is heard.



4.10. Connect the communication module

Procedure

Remove the dust-proof cover from the **4G/WIFI** port, plug in the communication module, and rotate less than 90 degrees to secure the module.



4.11. Connect battery power cables

Follow this procedure to prepare and connect the battery power cables to the inverter.



WARNING

Risk of electrical shock

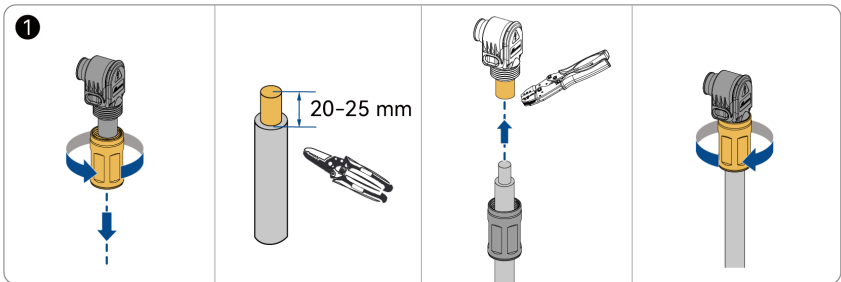
- Power off the battery system before connecting the power cable to avoid high voltage danger.
- The electrical connection of high voltage battery systems must be operated by qualified technicians in accordance with local and national power grid standards and regulations.

Note:

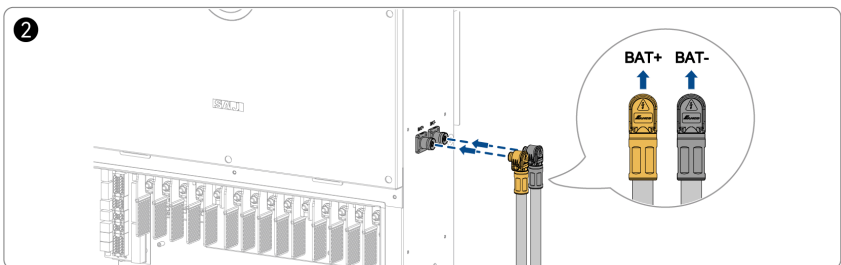
It is optional to install a breaker between the battery system and the inverter.

Procedure

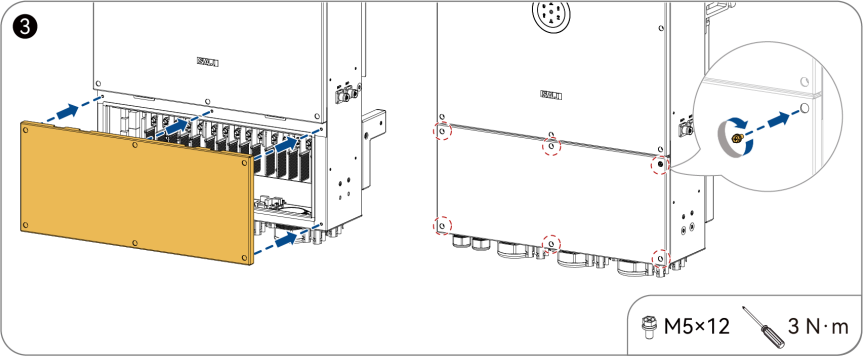
1. Assemble the positive and negative power cable ends to be connected to the inverter.



2. Connect the positive power cable to the **BAT+** port on the inverter; connect the negative power cable to the **BAT-** port on the inverter.



3. Install back the inverter cable cover.



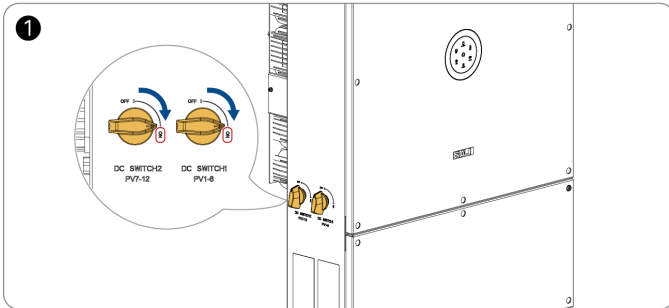
5. Start up the system

Before you begin

Check that all the cable connections are completed as instructed.

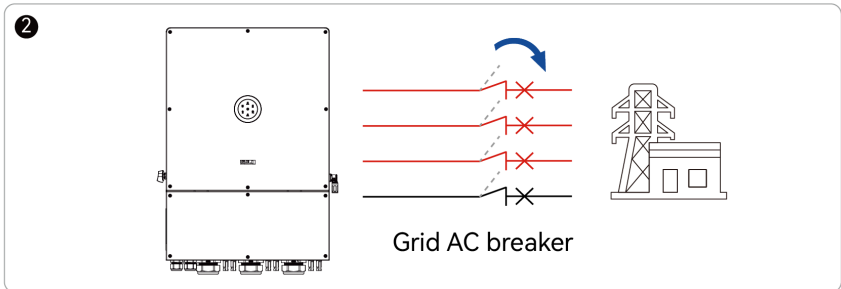
Procedure

1. Turn the two DC switches to the **ON** position on the inverter to enable the PV side connection.



2. Connect the external AC circuit breaker to enable the connection to the grid.

When the LED indicator shows solid green, it indicates that the inverter is up and running.



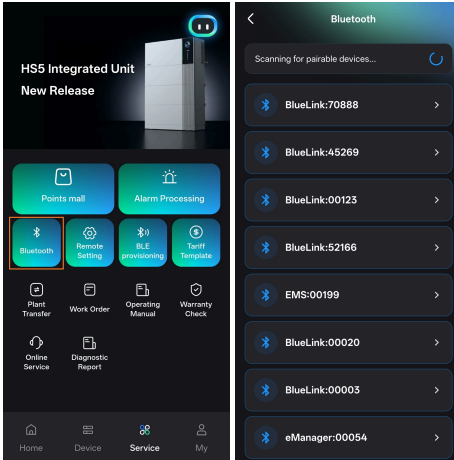
6. Perform one-click initialization

Procedure

- On page **Service**, tap **Bluetooth**. Select the communication module, inverter or EMS according to the last five digits of the serial number (SN).

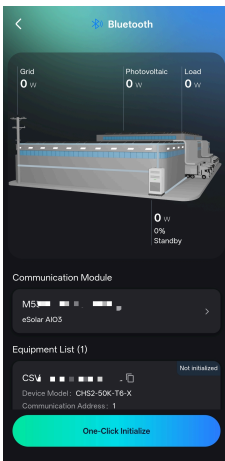
Example:

- BlueLink: 45269** for a communication module or inverter.
- EMS: 00199** for EMS units.



- Tap **One-Click Initialize** to start initialization.

Example:



3. Configure the battery parameters as needed.

The screenshot shows the 'Battery Settings' screen. At the top is a back arrow and the title 'Battery Settings'. Below this are five settings cards: 'Battery Brand' with a dropdown menu showing 'CB2'; 'Battery Capacity' with a text input '0.0' and a unit 'Ah'; 'Equalized Charging Voltage' with a text input '0.0' and a unit 'V'; 'Battery Voltage Alarm Setting' with a text input '0.0' and a unit 'V'; and 'Grid-Connected Discharge Cutoff Voltage' with a text input '0.0' and a unit 'V'. At the bottom are two buttons: 'Previous' and 'Next'.

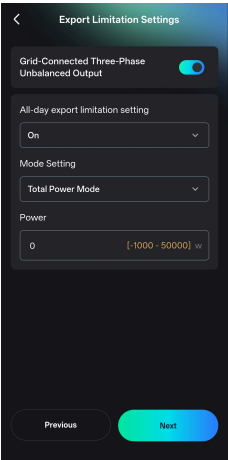
4. Select the connected meter.

The screenshot shows the 'Meter Settings' screen. At the top is a back arrow and the title 'Meter Settings'. Below this is a 'Wiring Method' dropdown menu showing 'One Three-Phase Four-Wire Meter'. Underneath is a 'System Schematic' diagram showing a power distribution system with a transformer, a meter, and various electrical components connected by wires. At the bottom are two buttons: 'Previous' and 'Next'.

5. Configure the export limitation function.

The export limitation function controls the maximum power that the inverter exports to the grid.

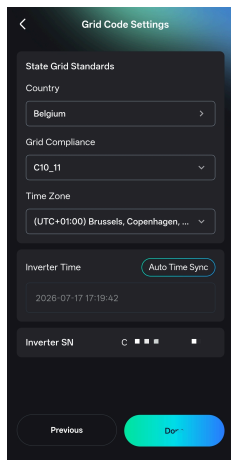
Example:



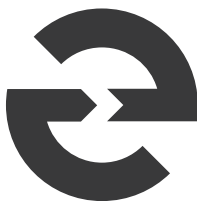
Parameter	Description
All-day export limitation settings	Enable or disable the export power limitation function that runs continuously throughout the entire day.
Total Power Mode Phase Current Mode Each Phase Power Mode	The modes for the export power limitation function.
Power	The power limit setting.

6. Configure the working strategy.

7. Configure the safety parameters.

Example:

Parameter	Description
Country	The equipment installation location.
Grid Compliance	The grid setting. For Australia, select the specific type of compliance according to the owner's grid configuration. • AS4777_AustraliaA: For large interconnected power system. • AS4777_AustraliaB: For small interconnected power systems. For example, Western Power. • AS4777_AustraliaC: For isolated or remote power systems. For example, Horizon Power and TasNetworks.
Time Zone	Tap the time zone of the installation site.
Inverter Time	Tap Auto Time Sync to sync the inverter time to the time of the device running the App.



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