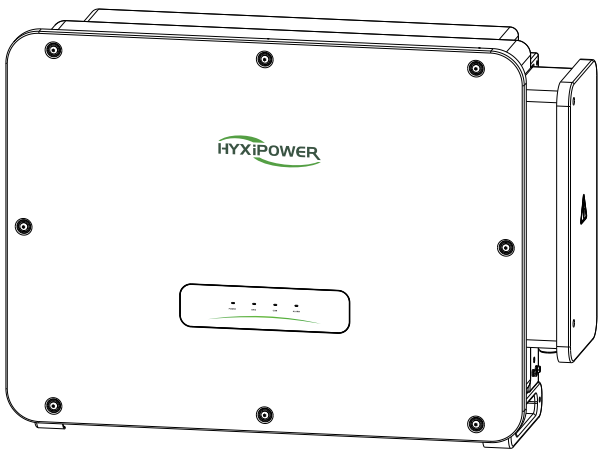


STRING INVERTER

HYX-S36K-LT / HYX-S50K-LT /
HYX-S60K-LT / HYX-S75K-LT



1 Safety Instructions

⚠ DANGER

- Exposure of the PV module to sunlight will generate dangerous voltages.
- Make sure the inverter doesn't have any electrical connections before installation.
- Make sure that all cables are not energized before making electrical connections.
- Do not open the enclosure at any time. Unauthorized opening will void guarantee and warranty claims, and HYXiPOWER shall not be held liable for any damage caused.

⚠ WARNING

- Only qualified personnel can perform the wiring of the PV system.
- Any improper operation during wiring may result in equipment damage or personal injury or death.
- All the warning labels and nameplate on the inverter body must be clearly visible and not be removed, covered or pasted.

⚠ CAUTION

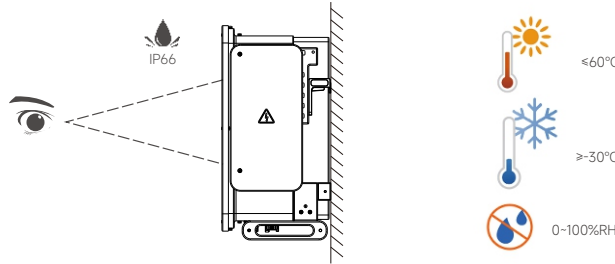
- Before installing the equipment, please check whether the goods are complete and whether there is any damage according to the packing list.
- Improper handling of the equipment may result in minor, serious or contusive injuries.
- The wiring process must follow the relevant rules of the local power grid and the relevant safety instructions for PV modules.
- After the inverter has been shut down, there is still a risk of burns. After the inverter has cooled down, it is necessary to wear protective gloves before operating the inverter.

Symbol Description

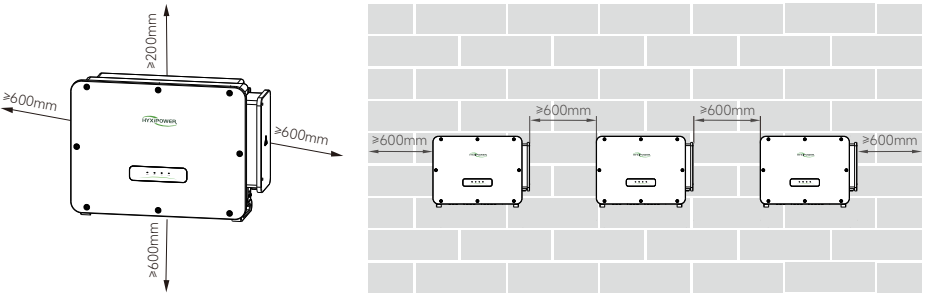
Symbol	Description
⚠ ⏏	Disconnect power for at least 5 minutes before servicing the inverter
⚠	Do not touch the inverter housing while it is in operation
⚠	Only install and operate the inverter with professional personnel
⚠	Do not remove the DC input connector or the AC output connector when the inverter is running
📖	Read the manual
CE	CE mark of conformity
♻	Do not dispose of the inverter as household waste
⚠ ⚡	High touch current, earth connection essential before connecting supply

2 Installation Preparation

2.1 Installation Environment Requirements

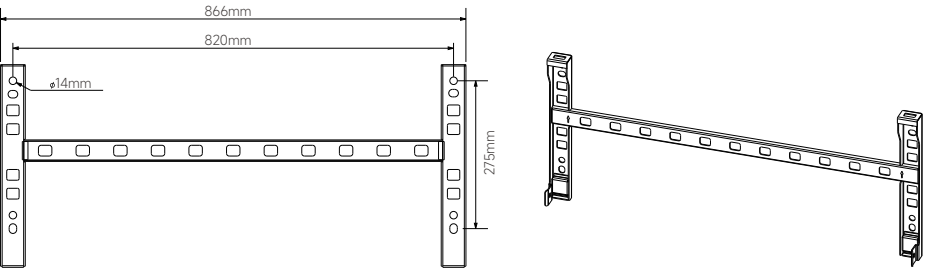


2.2 Installation space requirements



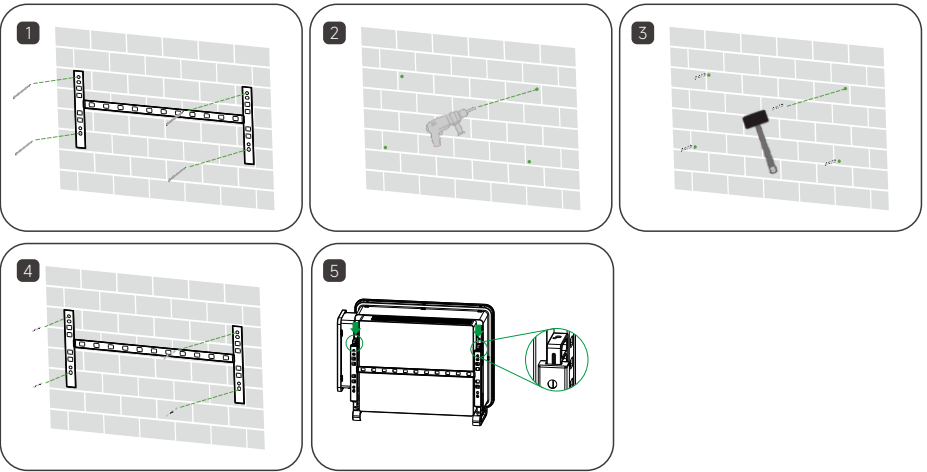
3 Installing the Inverter

3.1 Wall panel size



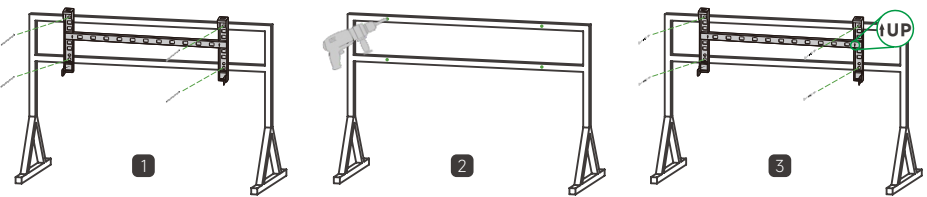
3.1.1 Wall-mounted installation

- Step 1: Place the mounting wall plate horizontally on the wall. It is recommended to select the hole position shown in the figure and mark the cobalt hole position.
- Step 2: Drill a hole at the position shown, the depth of the hole is about 70mm.
- Step 3: Place the expansion tube and use the expansion bolt assembly to install the wall plate.
- Step 4: Fix the mounting wall plate with M12 expansion screws.
- Step 5: Install the inverter on the hanging plate so that the inverter is flush with the hanging plate.



3.1.2 Bracket Installation

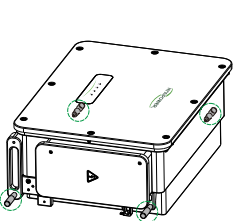
- Step 1: Use the hanging plate to determine the drilling position, level the hole position with a level ruler, and mark it with a marker.
- Step 2: Use an impact drill to drill holes (it is recommended to perform rust-proof treatment on the drilling area).
- Step 3: Fix the hanging plate, and finally install the inverter on the hanging plate so that the inverter is flush with the hanging plate.



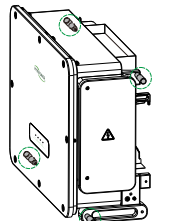
3.2 Install the inverter

When moving the inverter, follow the following instructions:

- When moving the inverter, please keep balance to prevent the machine from falling and injuring the operator.
- Move the inverter with multiple installers or use appropriate tools to move it.
- If the inverter is placed directly on a hard ground, it will cause damage to the metal shell. Foam or cardboard should be placed under it to avoid damage to the shell.
- When moving the inverter, please use the handle on the product. Do not use the product terminals as grippers.



Inverter moving scenarios

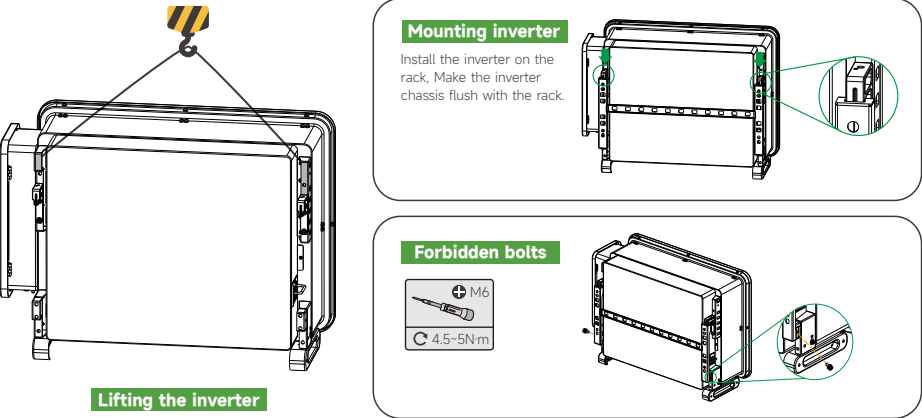


Inverter installation scenario

3.2.1 Lifting the inverter

If the installation location is high and the inverter cannot be directly installed on the bracket, pass the hoisting rope (which must meet the load-bearing requirements of this product) through the two hoisting holes and then lift it.

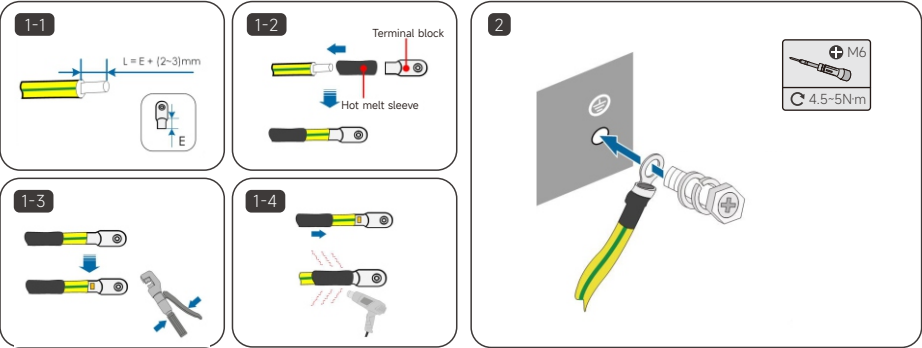
When hoisting the inverter, please pay attention to keep the balance to prevent the inverter from colliding with the wall or obstacles and damaging the casing.



4 Electrical Connections

4.1 Grounding cable

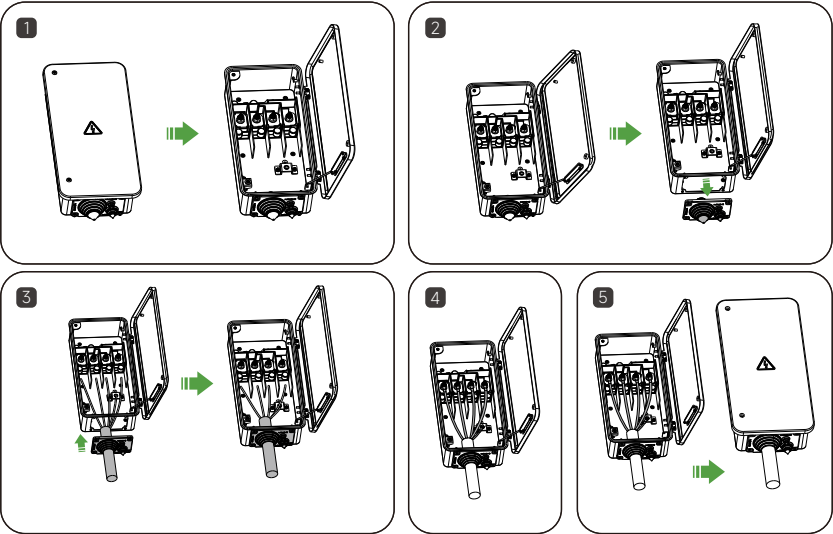
- Step 1: Make the cable and crimp the terminal.
- Step 2: Remove the screw from the ground terminal and use a screwdriver to secure the cable.
- Step 3: Apply silicone or paint on the ground terminal to improve its corrosion resistance.



4.2 AC side wiring

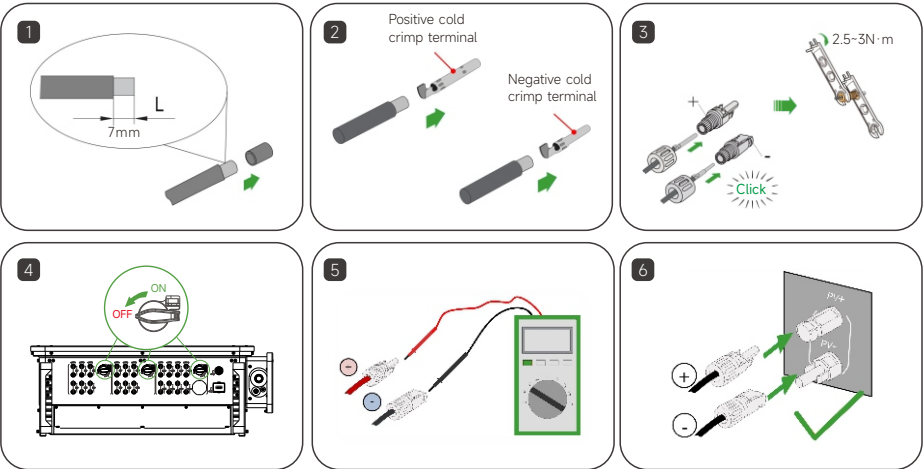
- Step 1: Disconnect the AC side circuit breaker and loosen the screws on the front cover of the junction box. During the wiring process, use the limit rod to keep the junction box in the open state.
- Step 2: Remove the sealing sleeve and cut off the appropriate sealing ring according to the outer diameter of the cable.
- Step 3: Pass the cable with the protective layer removed through the sealing ring and fix the screws of the bottom cover.

- Step 4: Fix the crimped OT/DT terminal cable to the corresponding terminal. (For the terminal installation torque value, please refer to the torque label in the AC box)
- Step 5: Remove the connecting rod, put it in place, close the junction box, and tighten the screws on its front cover.



4.3 DC side wiring

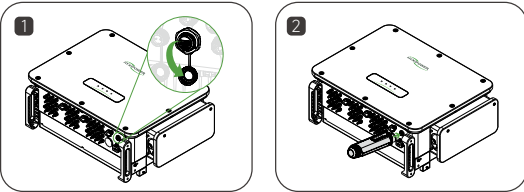
- Step 1: Strip off about 7mm of insulation layer of all DC cables.
- Step 2: Use crimping pliers to bundle the cable ends at the terminals.
- Step 3: Insert the cable into the sealing sleeve, and then insert the insulating sleeve and tighten it with a force of 2.5-3N·m.
- Step 4: Manually turn the DC switch to "OFF".
- Step 5: Use a multimeter to check whether the polarity of the PV string connection cables is correct.
- Step 6: Connect the PV connector to the corresponding terminal until you hear a click. Seal the vacant DC terminal with the MC4 waterproof plug.



5 Communication Connection

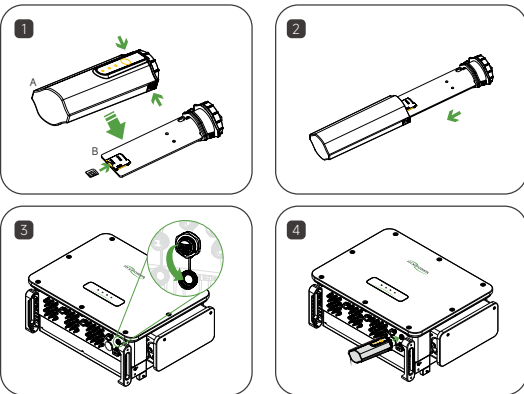
5.1 DCS Installation(WIFI module)

- Step 1: Remove the waterproof cover at the inverter communication interface.
- Step 2: Insert the DCS into the corresponding communication terminal at the bottom of the inverter and tighten it to ensure it is secure.



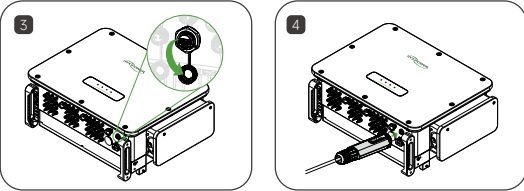
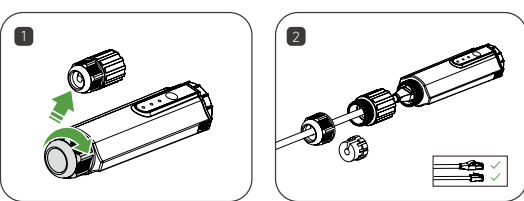
5.2 DCS Installation(4G module)

- Step 1: Remove the DCS protective cover and insert the SIM card.
- Step 2: Install the DCS waterproof cover.
- Step 3: Remove the waterproof cover at the inverter communication interface.
- Step 4: Insert the DCS into the corresponding communication terminal at the bottom of the inverter and tighten it to ensure it is firm.



5.3 DCS Installation(WLAN module)

- Step 1: Replace the bottom plug of the DCS with an Ethernet plug;
- Step 2: Insert the network cable connector into the network connector;
- Step 3: Remove the waterproof cover at the inverter communication interface;
- Step 4: Insert the DCS into the corresponding communication terminal at the bottom of the inverter and tighten it to ensure it is firm.

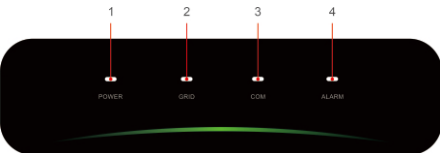


6 Power On the System

6.1 Pre-Run Checks

- Step 1: Turn the DC switch to "ON".
- Step 2: Close the AC circuit breaker.
- Step 3: If there is a DC switch between the inverter and the PV string or the grid, close it.
- Step 4: Turn on the inverter and observe the LED indicator status.

6.2 LED Indicator Description



Indicator	Status	Description	Indicator	Status	Description
POWER	ON	Inverter Powered ON	COM.	ON	COM. Normal
	OFF	Inverter Powered OFF		OFF	Meter COM. Fault
GRID	ON	Grid Normal	ALARM	ON	Normal
	Blink 1	Grid Abnormal		Blink 1	Inverter Internal Alarm
	Blink 2	Grid Disconnected		Blink 2	Other Alarm

* 1 time flashing, interval 1.5 seconds; 2 times flashing, interval 0.2 seconds.

7 System Commissioning

7.1 Installing the App

Method 1
Download the "HYXiPOWER APP" from the app store:

- App Store (iOS)
- Google Play

Method 2
Scan the QR code and download the APP :



App Download

7.2 App Quick Guide

For more information on using the HYXiPOWER APP, please scan the QR code.



App Quick Guide

support@hyxipower.com

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