

HYBRID INVERTER

HYX-H15K/20K/25-HT



Carefully read this inverter user instructions before using.
Read and save these instructions.



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About the Manual

Overview

This manual provides the user with product information, detailed installation and use, troubleshooting and daily maintenance of the PV storage inverter.

It does not contain all information about the PV system.

To ensure the proper installation and use of the inverter and its superior performance, before handling, installation, operation and maintenance of the inverter, please read the instruction manual in detail and follow it.

Please read the operating instructions in detail and follow all safety precautions in the instructions.

Scope of Application

This manual is intended for the following devices:

- HYX-H15K-HT
- HYX-H20K-HT
- HYX-H25K-HT

For readers

This manual is intended for professional technicians who need to install, operate and maintain the inverter and for users who need to check the inverter parameters.

All installation operations must be carried out by professional technicians and only by professional technicians.

Use of the manual

Please read the manual carefully before using the product, the content of the manual will be updated and corrected, but it is inevitable that there is a slight discrepancy or error with the actual product. Users should refer to the actual product purchased and obtain the latest version of the manual by downloading from www.hyxipower.com or through sales channels.

The latest version of the manual is available for download at or through sales channels.

Use of Symbols

To ensure user safety and property protection during product use, relevant information is provided and highlighted with the following symbols.

DANGER

- Indicates a high potential hazard that, if not avoided, could result in death or serious injury.

WARNING

- Indicates a moderate potential hazard that could result in death or serious injury if not avoided.

CAUTION

- Indicates a low potential hazard which, if not avoided, could result in moderate or minor injury.

NOTICE

- Indicates a potential risk which, if not avoided, could result in the equipment not functioning properly or in property damage.

1 Safety Precautions

1.1 General Safety

NOTICE

- The "DANGER", "WARNING", "CAUTION", and "NOTICE" items in the manual do not include all safety precautions that should be observed. All work should be carried out in combination with the actual situation on site.
- This equipment should be used in an environment that meets the requirements of design specifications, otherwise it may cause equipment failure, and the resulting equipment functional abnormalities or component damage, personal safety accidents, property losses, etc., are not within the scope of equipment quality assurance.
- The installation, operation and maintenance of the equipment should comply with local laws, regulations and codes. The safety precautions in the manual, The safety precautions in the manual are only supplementary to the local laws and regulations.
- If an external residual current device (RCD) (type A is recommended) is mandatory, the switch must be triggered at a residual current of 300 mA(recommended). RCD of other specifications can also be used according to local standard.

1.2 Public Grid

NOTICE

- All electrical connections must meet local and national electrical standards.
- The inverter may only be connected to the grid with the permission of the local electricity authority.

1.3 Photovoltaic String

DANGER

- When performing electrical connection work, you must wear personal protective equipment.
- Use a multimeter DC block to measure the positive and negative DC cable polarity to ensure that the polarity is correct; and the voltage is within the allowable range.
- After the DC cable is connected, please make sure that the cable is tightly connected and not loose.

1.4 Inverter

DANGER

- Before plugging or unplugging the PV connector or AC connector, please use a multimeter to measure to make sure there is no voltage or current.
- Make sure that the voltage and frequency of the grid connection point are in accordance with the grid connection specification of the inverter.
- Do not open the inverter housing when the inverter is operating or energized to protect personnel and property safety.
- After removing all electrical equipment and disconnecting the inverter, wait at least 5 minutes for the internal capacitors to discharge.
- The protective ground of the inverter must be securely connected and, for multiple inverters, ensure that all inverters are connected to the protective ground.
- When multiple inverters are installed, ensure that all inverter enclosures are connected equipotentially to the protective ground. Install the equipment first.
- The protective ground is installed first; the protective ground is removed last when the equipment is dismantled.

WARNING

- After the inverter is installed, labels and warning signs shall be clearly visible, and obscuring, altering or damaging them is prohibited.
- After the inverter is shut down, there is still a risk of burns, after the inverter has cooled down, wear protective protective gloves before operation.

1.5 Personnel Requirements

NOTICE

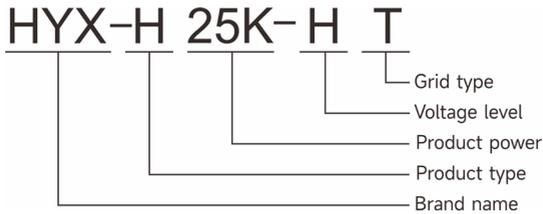
- The personnel responsible for the installation and maintenance of Hyxi equipment must first undergo strict training to understand the various safety precautions and master the correct operation methods.
- Only qualified professionals or trained personnel are allowed to install, operate and maintain the equipment.
- The personnel who operate the equipment, including operators, trained personnel, professionals should have the special operating qualifications required by the local country, such as high voltage operation, special equipment operation qualification, etc.

2 Product Overview

2.1 Product Description

HYX-H(15-25)K-HT is a three-phase hybrid inverter, the main function is to convert the DC power generated by the PV string into AC power for load use, storage to the battery and output to the grid.

- HYX-H15K-HT
- HYX-H20K-HT
- HYX-H25K-HT

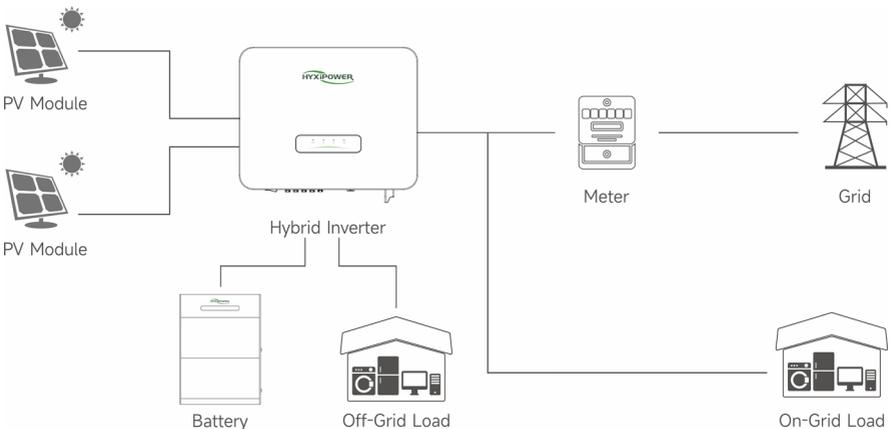


2.2 System Diagram

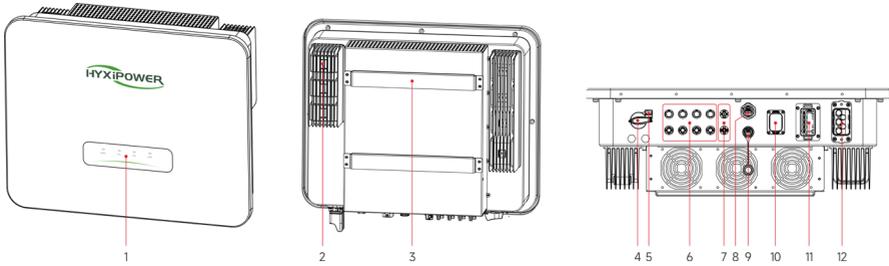
The PV hybrid system is composed of PV modules, inverter, battery, meter, load and grid. The inverter is the core component of the PV hybrid system.

The solar energy is transformed into DC energy by the PV modules, and then transformed into sinusoidal AC energy with the same frequency and phase as the public grid by the hybrid inverter.

The hybrid inverter is used by the crystalline silicon solar cell set without grounded positive and negative poles as the DC input, battery pack as DC input.



2.5 Product Appearance

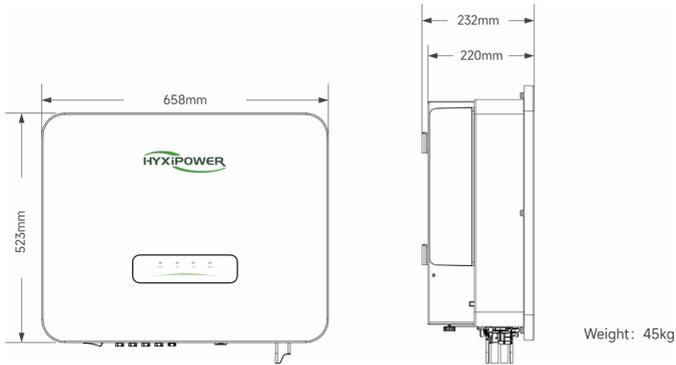


No.	Item	Description
1	LED Indicator Panel	Indicates the current operating status of inverter
2	Fin Heat Sink	Heat dissipation and ventilation
3	Mounting Bracket	Fixing the inverter
4	DC Switch	On/Off DC input
5	DC Switch Lock	DC lock hole Reserved (Australia)
6	DC Input Terminal (PV+/PV-)	Inverter-PV
7	BAT Power Terminal(BAT+/BAT-)	INV-BAT Power
8	USB Communication Terminal	For DCS connection
9	BMS Communication Terminal	BMS Communication
10	METER & Dry Contact Port	4pin 485 connection, for Smart Meter and Dry Contact connection
11	BACKUP Terminal	For BACKUP connection
12	GRID Terminal	For GRID connection

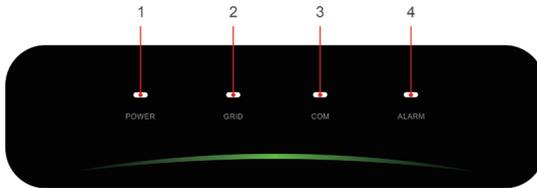
2.6 Symbol Description

Symbol	Description
	There is a fatal danger of high pressure ! Disconnect power for at least 30 minutes before servicing the inverter.
	Do not touch the inverter housing while it is in operation.
	Beware of electric shock! High voltage exists when the equipment is in operation, so when operating the equipment, make sure the equipment is powered off.
	Risk of danger! There are potential hazards when the equipment is in operation, please take precautions when operating the equipment.
	Observe enclosed documentation.
	CE certification mark. The inverter complies with the regulations of CE.
	Do not dispose of the product together with the household waste.

2.7 Dimensions & Weight



2.8 LED Indicator



No.	Indicator	Status	Description
1	POWER	ON	Inverter Powered ON
		OFF	Inverter Powered OFF
2	GRID	ON	Grid Normal
		Blink 1	Grid Abnormal
		Blink 2	Grid Disconnected
3	COM	ON	COM. Normal
		Blink 1	Meter COM. Fault
		Blink 2	COM. Fault With BMS
		OFF	Fault Both Meter & BMS
4	ALARM	OFF	Normal
		Blink 1	Inverter Internal Alarm
		Blink 2	Other Alarm

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

2.9 Function Description

Function of inverter:

The inverter converts DC power into AC power that meets the requirements of the grid and feeds it into the gri

Function of data storage:

The inverter stores operating information, fault records, and other system information.

Parameter configuration:

- The inverter provides a variety of parameter configurations, which can be configured via cell phone APP to meet various requirements or to optimize its operation.
- The user can configure the parameters through the mobile phone APP to meet various needs or adjust its operation to the best performance.

Communication interface:

- The inverter provides communication accessory port for accessing the communication module and uploading the monitoring data to the monitoring background through wireless communication.
- After successful establishment with the communication equipment, users can view inverter-related information or set inverter operating parameters, protection parameters, etc. through the HYXiPOWER Smart Energy Platform.

Protection functions:

The inverter is equipped with protection functions such as islanding protection, DC reverse connection protection, AC short circuit protection, leakage current protection, surge protection, etc.

3 Inspection & Storage

3.1 Unpacking and Inspection

The equipment has been completely tested and strictly inspected before leaving the factory, but it may still be damaged during transportation, please make a detailed inspection before signing the product.

- Check whether there is any damage to the packing box.
- Check if the goods are complete and in accordance with the packing list.
- Unpack and check if the equipment inside is intact.
- If there is any damage or incomplete goods, please contact with the shipping company or directly with Zhejiang Hyxi Technology Co., Ltd.
- Provide photos of the damage to facilitate the provision of services.

3.2 Inverter Storage

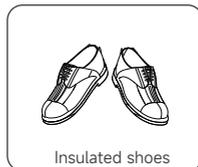
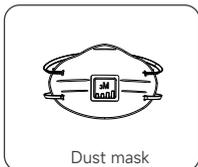
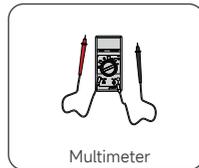
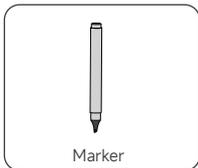
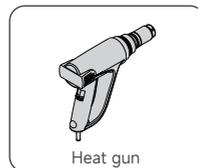
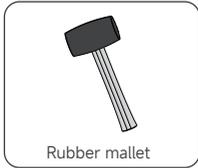
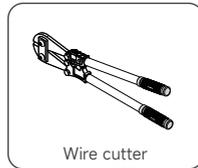
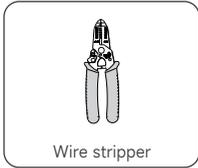
If the inverter is not immediately put into use, it is necessary to meet the following requirements when storing the inverter:

- Do not remove the outer packaging of the inverter.
- The inverter needs to be stored in a clean and dry place and protected from dust and water vapor.
- The storage temperature should be kept at -30°C to $+60^{\circ}\text{C}$ and the relative humidity should be kept at 0% ~ 100%RH.
- When stacking multiple inverters, it is recommended that they be placed in the same number of layers as originally shipped.
- Please place the inverters carefully to avoid personal injury or equipment damage caused by tipping the equipment.
- Avoid chemically corrosive substances, otherwise it may corrode the inverter.
- During the storage period, regular inspection is required. If insects and rodents bite the inverter or damage the packaging, the packaging material should be replaced in time.
- After long-term storage, the inverter needs to be inspected and tested by professionals before it can be put into use.
- Please do not dispose of the original packaging of the equipment. It is better to store the equipment in the original box after it is dismantled.

4 Pre-Installation Preparation

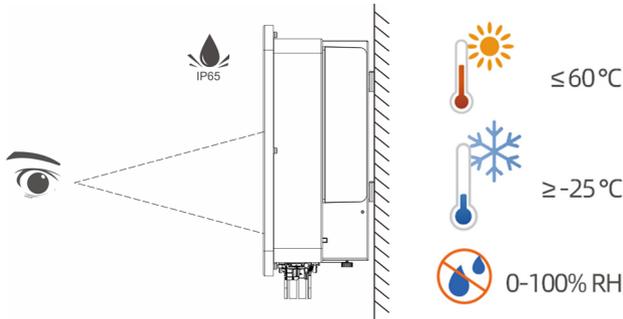
4.1 Installation Tools

Installation tools include, but are not limited to, the following recommended tools. And if necessary, other auxiliary tools can be used on site.



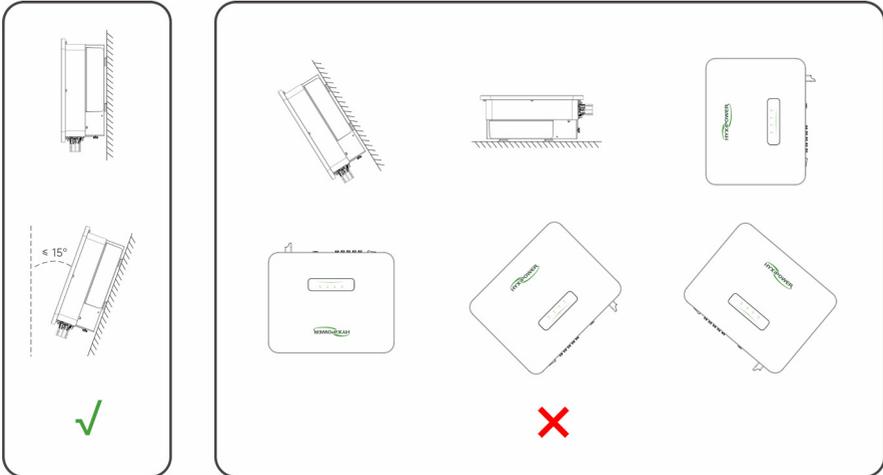
4.2 Installation Environment

- The inverter has IP65 protection level and can be used for indoor or outdoor installation.
- The installation location should be convenient for electrical connection, operation and maintenance.
- No flammable and explosive materials should be present in the installation environment.
- It must not be installed in a location that is accessible to children.
- Temperature should meet: -30 to $+60^{\circ}\text{C}$; Humidity should meet: $0 \sim 100\%$ RH.
- Avoid direct sunlight, rain and snow on the inverter, and choose a sheltered place for the installation to extend the life of the inverter.
- It is very important to make sure the inverter is ventilated and dissipated smoothly, please install the inverter in a ventilated environment.
- The inverter will generate some noise during operation, so it is not recommended to install it in the living area.



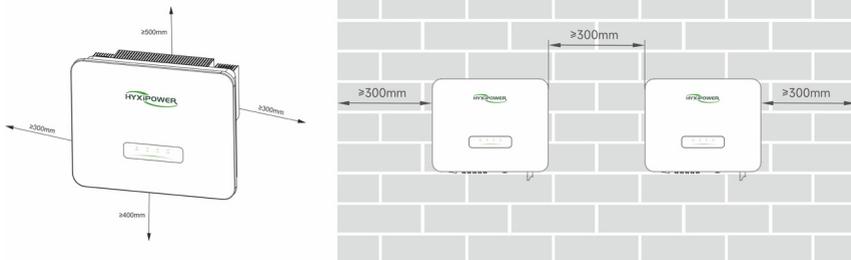
4.3 Installation Angle

- The mounting carrier has a load-bearing capacity of at least 4 times the weight of the inverter, and the carrier has fireproof characteristics.
- It is recommended that the inverter be installed vertically or tilted back $\leq 15^\circ$ to facilitate the heat dissipation of the machine.
- Do not tilt the inverter forward, backward, upside down, horizontally or sideways.



4.4 Installation Space

Make sure there is enough space around the inverter to ensure ventilation. The installation space requirements for a single inverter are shown in the figure below.



5 Mechanical Installation

5.1 Installation Precautions

DANGER

- Before installing the inverter, be sure that the inverter is free of any electrical connections.
- Make sure to avoid the utility alignments in the wall before drilling holes to avoid any danger.

CAUTION

- The instructions in the manual must be followed when handling and placing the equipment.
- Improper handling of the equipment may result in minor, serious or contusive injuries.
- The equipment heat sink must be kept uncovered to ensure adequate cooling inside the equipment.

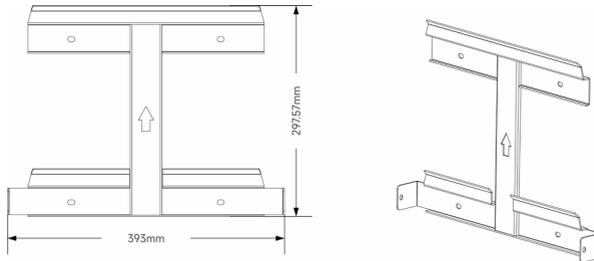
5.2 Handling the Inverter

Before installation, the inverter needs to be removed from the packing box and moved to the selected installation site, when moving the inverter, the following guidance instructions need to be observed:

- Always pay attention to the weight of the inverter.
- Use the handles on both sides of the inverter to lift the inverter.
- One or two installers move the inverter together, or use a suitable moving tool.
- Do not loosen the unit unless it is securely fastened.

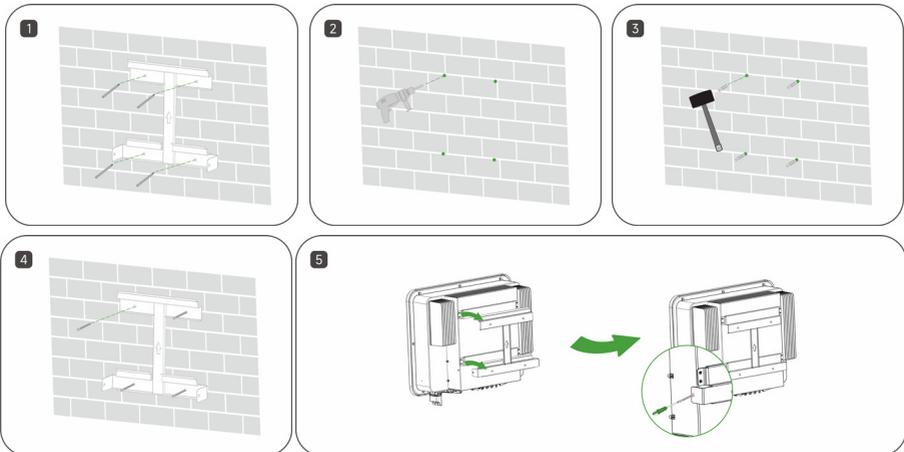
5.3 Installing the Inverter

Bracket Dimension:



Installation procedure:

- Step 1:** Place the bracket horizontally on the wall, recommend to select the hole position shown in the picture and mark the drilling position.
- Step 2:** Drill a hole at the location shown, the depth of the hole is about 70 mm.
- Step 3:** Place the expansion tube and install the wall plate using the expansion bolt assembly.
- Step 4:** Secure the mounting plate with M6 screws.
- Step 5:** Hang the mounting lugs onto the peg plate and tighten them with M6 screws and finally lock them.



6 Electrical Connection

DANGER

- High voltage may be present in the inverter.
- Exposure of the PV module to sunlight will generate dangerous voltages.
- Do not close the AC/DC circuit breaker before completing the electrical connection and prevent misconnection.
- Make sure that all cables are not energized before making electrical connections.

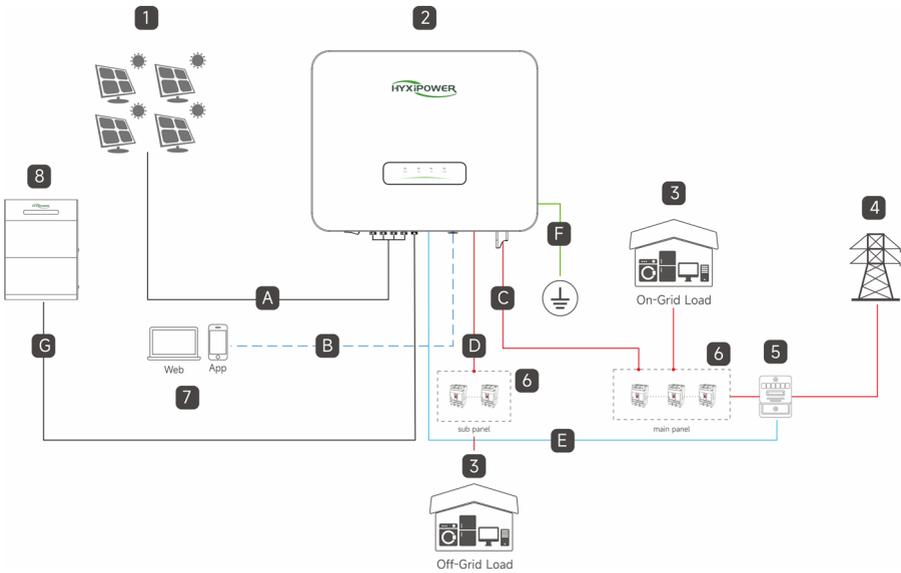
WARNING

- Since the inverter is transformerless, the positive and negative terminals of the PV string must not be grounded, otherwise the inverter will not operate properly.
- Before connecting the AC side, the PV string and the communication connection, please make an external ground connection.
- The ground connection of the external protective earth terminal is not a substitute for the connection of the PE terminal in the AC wiring, but must ensure that both are reliably grounded. Otherwise, HYXiPOWER will not take any responsibility for the possible consequences.

CAUTION

- Damage to the equipment caused by incorrect wiring is not covered by the equipment warranty.
- Operations related to electrical connections must be performed by a professional electrical technician.
- The N and PE wires of the ON-GRID and BACK-UP ports of the inverter are wired differently according to the regulatory requirements in different regions.
- The inverter ON-GRID and BACK-UP AC ports have built-in relays.
- When the inverter is in off-grid mode, the built-in ON-GRID relay is open; when the inverter is in grid-tied mode, the built-in ON-GRID relay is closed.
- When the inverter is powered on, the AC port of BACK-UP is charged, if you need to do maintenance on BACK-UP load, please turn off the inverter.
- If the inverter is powered up, the BACK-UP AC port is powered.

6.1 Electrical Connection Overview



1	PV Module	2	Hybrid Inverter	3	Load (On/Off-Grid)	4	Grid
5	Meter	6	Main&Sub Panel	7	Smart Energy Platform	8	Battery

No.	Cable	Type	Specifications
A	PV cable	Outdoor multi-core copper wire cable complying with 1000V and 20A standard.	4-6 mm ²
B	Wifi wireless	/	/
C	AC cable	Five-core outdoor copper core cable (R,S,T,N,PE).	16-25 mm ²
D	BACK-UP cable	Five-core outdoor copper core cable (R,S,T,N,PE).	6-8 mm ²
E	2pin RS485 cable	2pin RS485 communication cable	/
F	Ground cable	Ensure that all ground wires are grounded.	10 mm ²
G	Battery power cable	Outdoor multi-core copper wire cable complying with 600 V and 60A standard.	10 mm ²

Grid cable and micro-breaker recommended

Model	HYX-H15K-HT	HYX-H20K-HT	HYX-H25K-HT
PV cable (copper)		4-6 mm ²	
AC cable (copper)		16-25 mm ²	
Backup cable (copper)		6-8 mm ²	
BAT cable (copper)		10 mm ²	
Micro-breaker	70 A	90 A	110 A

6.2 Grounding Connection

⚠ WARNING

- In the PV power generation system, all non-current-carrying metal parts and equipment housings should be grounded (e.g. PV mounts, etc.).
- The external grounding terminal of a single inverter should be grounded near the end.
- When there are multiple inverters, the external grounding terminals of all inverters and the grounding points of PV mounts should be connected to the equipotential line (depending on the site conditions) to ensure that the external grounding of all inverters is grounded.
- Please ensure that the grounding procedure has been completed before any other operation.
- The cross-sectional area of the secondary grounding cable must be the same as the cross-sectional area of the PE core in the AC cable.

ℹ NOTICE

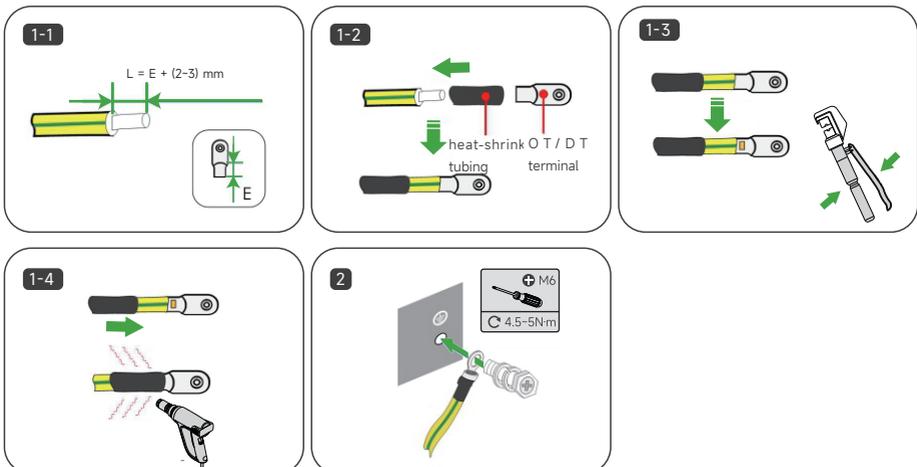
- The secondary grounding cable and terminal block are to be prepared by the customer.

Grounding procedure:

Step 1: Make the cable and crimp the terminal block.

Step 2: Remove the screws from the grounding terminal and use a screwdriver to secure the cable.

Step 3: Apply silicone or paint to the grounding terminal to improve its corrosion resistance.



6.3 AC Side Connection

⚠ DANGER

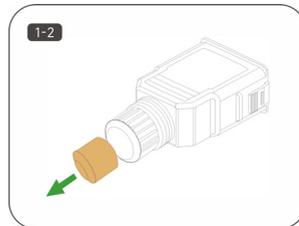
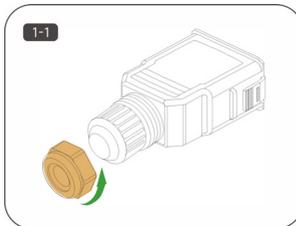
- Before connecting to the grid, make sure that the grid voltage and frequency meet the requirements of the inverter, please refer to the "Technical Data" for detailed parameters. Otherwise, contact the power company to solve the problem.
- Inverters can only be connected to the grid with the local power company's access permit.
- To ensure that the inverter can be safely disconnected under load, each inverter must be equipped with a separate two-pole AC circuit breaker as protection device.
- Multiple inverters must not share a single AC circuit breaker.
- No load may be connected between the inverter and the AC circuit breaker.

⚠ WARNING

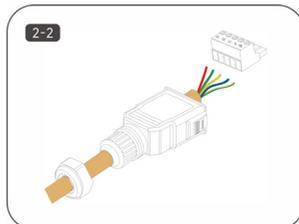
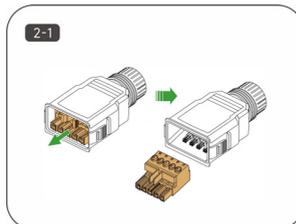
- When the residual current exceeds the allowed value, the inverter will quickly disconnect from the grid.
- The inverter ON-GRID and BACK-UP AC ports have built-in relays. When the inverter is in off-grid mode, the built-in ON-GRID relay is open when the inverter is in off-grid mode; when the inverter is in grid-tied operation, the built-in ON-GRID relay is closed.
- When the inverter is powered on, the AC port of BACK-UP is charged, if you need to do maintenance on BACK-UP load, please turn off the inverter, otherwise, electric shock may result.

On-grid side connection:

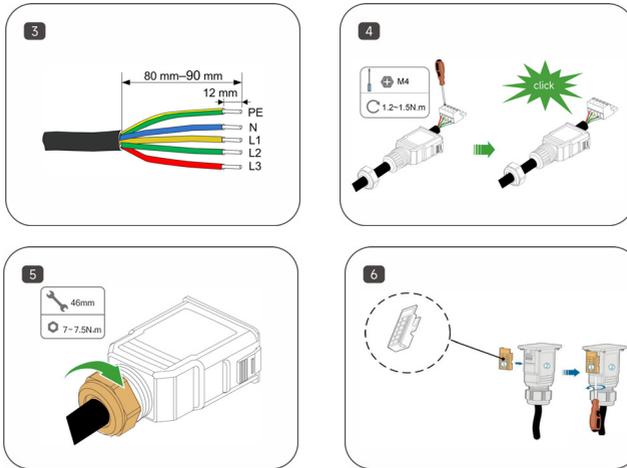
Step 1: Unscrew the swivel nut of the AC connector. (Optional) Remove the inner sealing ring if the cable diameter is between 19 mm ~ 25 mm. Otherwise skip this step.



Step 2: Take out the terminal plug from the housing. Thread the AC cable of appropriate length through the swivel nut and the housing.



- Step 3:** Strip 80 mm ~ 90 mm of the cable jacketed and 12 mm of the wire insulation.
- Step 4:** Fix all the wires to the terminal plug according to the assignment and tighten to a torque of 1.2 N·m-1.5 N·m with a screwdriver. Then push the terminal plug into the housing until there is an audible click.
- Step 5:** Ensure that the wires are securely in place by slightly pulling them. Tighten the swivel nut to the housing.
- Step 6:** Plug the AC terminal into the inverter AC port and hear the “click” sound. Insert the block into AC connector, as shown in the figure below.



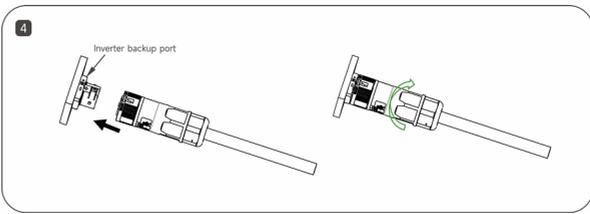
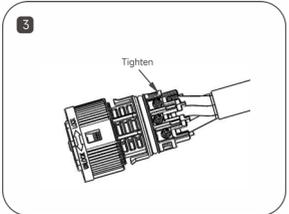
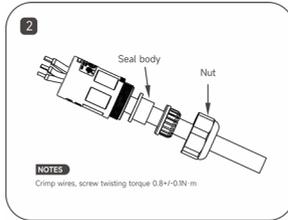
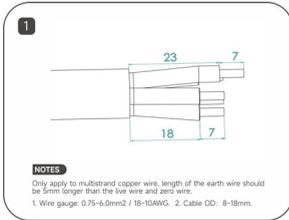
Back-up side connection:

Step 1: Wire Stripping.

Step 2: Set the parts on the cable and crimp wires.

Step 3: Tighten the sealing knob.

Step 4: Mating plug and socket: Push the locker onto the socket housing completely, then rotate the locker according to the direction instructed by the marks on the locker.



6.4 PV Connection

DANGER

- Before connecting the DC input line, make sure that the DC side voltage is within the safe voltage range and that the inverter's "DC SWITCH" of the inverter is set to "OFF". Otherwise, the high voltage generated may cause a risk of electric shock.
- When the inverter is in operation, it is forbidden to perform maintenance operations on the DC input line, such as accessing or disconnecting a string or a component in a string, otherwise it may lead to electric shock hazard.
- If the DC input terminal of the inverter is not connected to the PV string, do not remove the waterproof cover of the DC input terminal, as this will affect the protection level of the equipment will be affected.
- Do not connect the same PV string to more than one inverter, as this may cause damage to the inverter.
- Make sure that the maximum short-circuit current and maximum input voltage of each MPPT are within the allowable range of the inverter.
- Make sure that the positive terminal of the PV string is connected to PV+ of the inverter and the negative terminal of the PV string is connected to PV- of the inverter.

WARNING

Please make sure that the following conditions are met. Failure to do so may result in damage to the inverter or even cause a fire hazard.

- The PV string output does not support grounding.
- Before connecting the PV string to the inverter, make sure that the minimum insulation resistance to ground of the PV string meets the minimum insulation impedance requirement ($R = \text{maximum input voltage} / 30\text{mA}$). If the insulation impedance value is less than this requirement, the inverter will trigger the insulation impedance alarm.

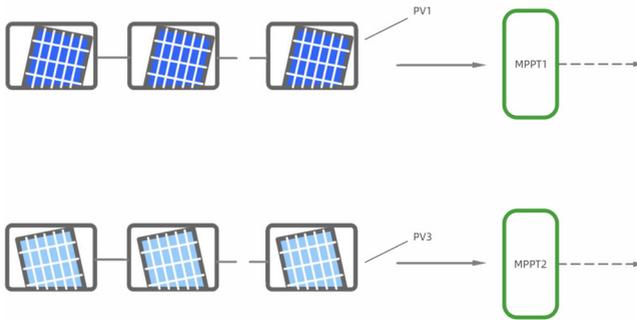
6.4.1 PV Input Configuration

The inverter has two PV input areas, each equipped with an independent MPPT that can operate independently.

In order to make full use of the PV panel input power, the PV strings in the same input area should have the same structure, including: the same type, number of panels, tilt angle and azimuth angle.

The structure of PV strings in different input areas can be different, including: different panel types, different number of cells in the string, different tilt and azimuth angles.

Ensure that all panels connected to the same string of PV inputs have the same tilt and azimuth angles.



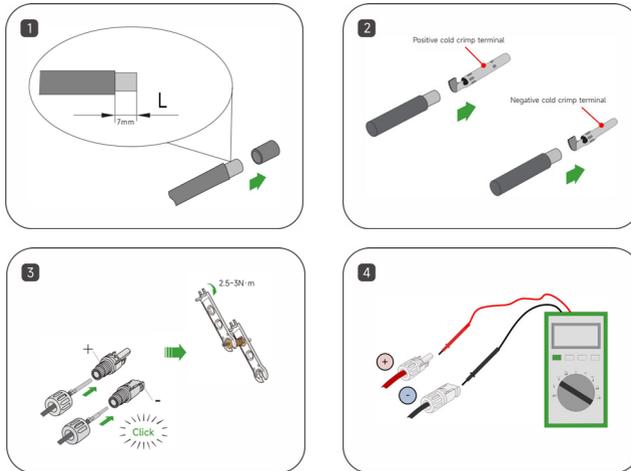
PV connection procedure:**Assembling DC Connector**

Step 1: Strip all DC cable insulation by approximately 7 mm.

Step 2: Use crimping pliers to bundle the cable ends at the terminals.

Step 3: Insert the cable through the cable sealing sleeve, insert it into the insulating sleeve and fasten it, and pull the cable gently to make sure it is tightly connected. Use 2.5~3N·m force to tighten the sealing sleeve and insulation sleeve.

Step 4: Use a multimeter to check the correct polarity of the PV string connection cable.

**⚠ DANGER**

- High voltage may be present in the inverter!
- Make sure that all cables are not energized before performing electrical operations.
- The AC circuit breaker switch must not be closed until the inverter electrical connections are complete.

⚠ CAUTION

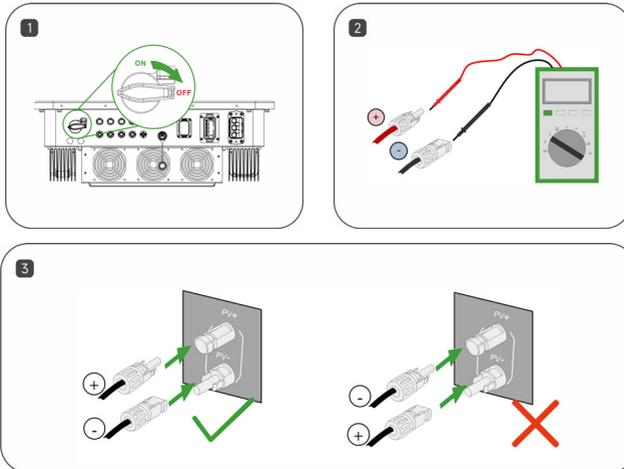
- If the DC input polarity is reversed, the inverter will be in a fault or alarm condition and will not operate properly.

Installing the DC Connector

Step 1: Turn the DC switch to "OFF" manually.

Step 2: Check the PV string cable connections for correct polarity and make sure that the open circuit voltage does not exceed the inverter input limit of 600 V.

Step 3: Connect the PV connectors to the corresponding terminals until a click is heard and seal the vacant DC terminals with MC4 waterproof plugs.



6.5 Battery Cable Connection

DANGER

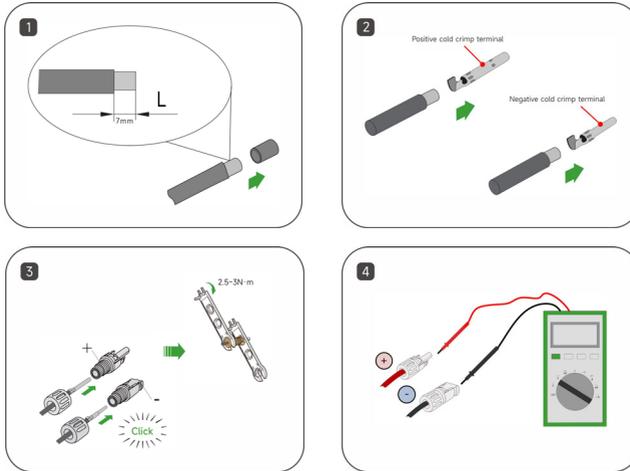
- The batteries used with the inverter are subject to the approval of the inverter manufacturer.
- A shorted battery may cause personal injury and the instantaneous high current caused by a short circuit can release a large amount of energy and may cause fire.
- Ensure that the cable polarity of the battery cable to the inverter-side battery terminal is correct.
- Before connecting the battery cable, make sure that the inverter and battery are disconnected and that both the front and rear switches of the device are disconnected.
- It is forbidden to connect and disconnect the battery cables when the inverter is running; violation may result in electric shock hazard.
- Do not connect the same battery pack to more than one inverter, as this may cause damage to the inverter.
- When connecting battery cables, use insulated tools to prevent accidental electric shock or short-circuiting of the batteries.
- Make sure that the battery open circuit voltage is within the allowable range of the inverter.
- According to local safety regulations, a DC switch is required between the inverter and the battery.

WARNING

- Make sure that the wire cores are fully connected into the terminal wiring holes and not exposed.
- Make sure the cable connection is tight, otherwise the terminals may overheat when the equipment is running and cause damage to the equipment.
- Do not connect a load between the inverter and the energy storage device.

Battery connection procedure:

- Step 1:** Strip off the insulation layer of all DC cables by about 7mm.
- Step 2:** Use crimping pliers to bundle the cable ends at the wiring terminals.
- Step 3:** Pass the cable through the cable gland, insert the insulating sleeve and fasten it. Gently pull the cable to ensure that it is connected and fastened. Use a force of 2.5-3N·m to tighten the gland and insulating sleeve.
- Step 4:** Use a multimeter to check and confirm that the polarity of the photovoltaic string connecting cable is correct.



6.6 Communication Connection

6.6.1 Meter Communication Connection

The inverter is connected to the electricity meter via a two-pin RS485 cable.

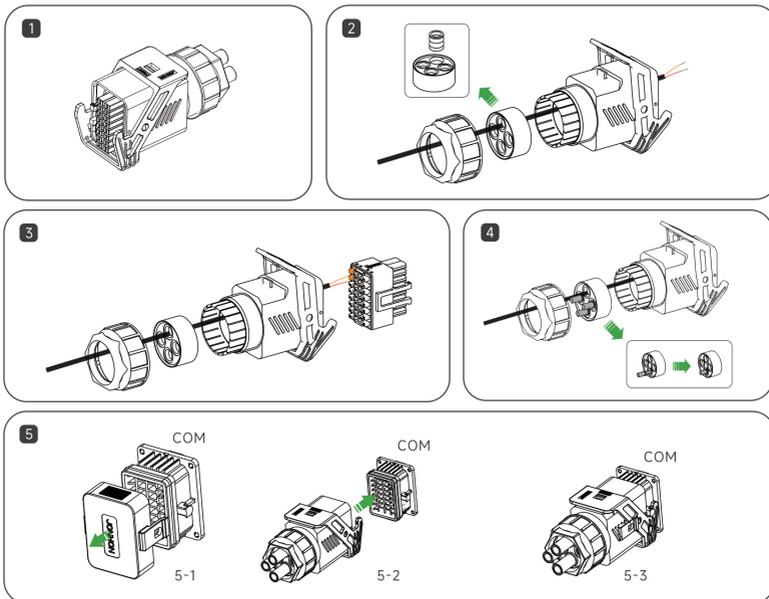
Step 1: Pull crimping components out of communication terminal.

Step 2: Insert meter RS485 2pin cable into communication terminal as follows. Then stripping the wire.

Step 3: Clip the stripped meter RS485 2pin wire to crimping components (press the yellow button).

Step 4: Plug waterproof rubber plugs into unused holes.

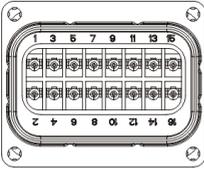
Step 5: Remove the cover of inverter COM port. Insert communication terminal and tighten knob.



⚠ CAUTION

- Please Notice that the meter model required by Hyxi must be used.

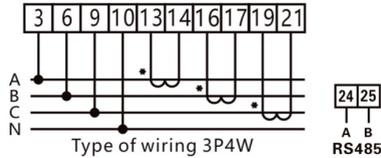
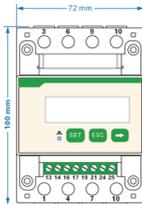
PIN definition



Pin	1	3	5	7	9	11	13	15
Definition	DRM1/5	DRM2/6	DRM3/7	DRM4/8	COM LOAD/0	REF/GE0	GND_COM	NO1
Pin	2	4	6	8	10	12	14	16
Definition	RS485A_METER	RS485B_METER	RS485_Grid_A	RS485_Grid_B	DSP_CAN_H	DSP_CAN_L	+8V_COM	NO2

The inverter is connected to the electricity meter via a two-pin RS485 cable.

Please refer to the instruction manual included in the meter's packaging for more details.



WARNING

- The direction of CT must be point to the GRID.
- Meter 485A/485B must be connected to the correct pin port of inverter side.

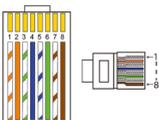
6.6.2 BMS Communication Connection

BMS port definition

The communication interface between the inverter and the battery uses the waterproof connector with RJ45.

One 1m communication cable will be included as standard.

Pin	1	2	3	4	5	6	7	8
Definition	RS485_BAT_A	RS485_BAT_B	RT1	CAN_H	CAN_L	RT2	Reserved	Reserved

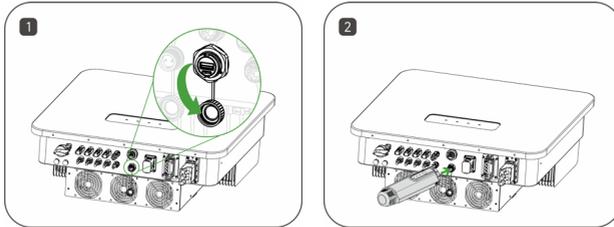


6.7 DCS Connection

6.7.1 DCS Installation (WIFI module)

Step 1: Remove the waterproof cover at the communication interface of the inverter.

Step 2: Insert DCS into the corresponding communication terminal at the bottom of the inverter and tighten it to ensure it is secure.



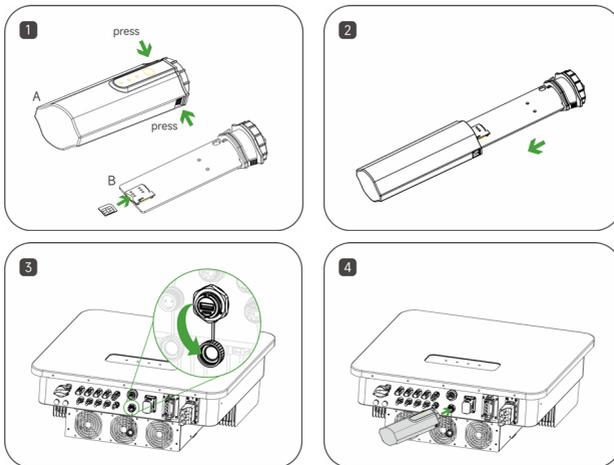
6.7.2 DCS Installation (4G module)

Step 1: Remove the protective cover of DCS and insert the SIM card.

Step 2: Install the waterproof cover of DCS.

Step 3: Remove the waterproof cover at the communication interface of the inverter.

Step 4: Insert DCS into the corresponding communication terminal at the bottom of the inverter and tighten it to ensure it is secure.



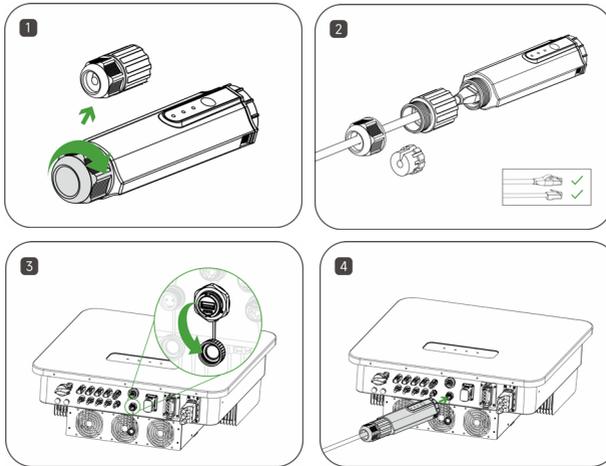
6.7.3 DCS Installation (WLAN module)

Step 1: Replace the bottom plug of DCS with the WLAN plug.

Step 2: Insert the network cable connector into the network junction.

Step 3: Remove the waterproof cover at the communication interface of the inverter.

Step 4: Insert DCS into the corresponding communication terminal at the bottom of the inverter and tighten it to ensure it is secure.



7 Human-Computer Interaction

7.1 Installing the App

Method 1

Download and install the HYXI App through the following application stores:

- App Store (iOS)
- Google Play

Method 2

Scan the following QR code to download and install the HYXI App according to the prompt information:



7.2 APP Configuration

For specification configuration, please scan the following QR code to check HYXI APP_User Manual.



8 System Commissioning

8.1 Checking before Power-On

- Ensure that the inverter's installation location meets the requirements of the installation environment, and ensure easy installation, disassembly, operation and maintenance of the inverter.
- Ensure that the mechanical installation of the inverter meets the requirements of the manual.
- Ensure that the electrical installation of the inverter meets the requirements of the manual.
- Ensure that all switches are in the "off" position.
- Make sure no construction tools, etc. are left on the top of the machine or in the junction box (if the machine has one).
- The selection of AC circuit breakers should comply with this manual and local standards.
- All safety signs and warning labels are securely attached and clearly visible.
- Verify that the PV module open circuit voltage meets the requirements of the DC side parameters of the inverter in the Appendix.

CAUTION

- To ensure the safe, normal and stable operation of PV power generation systems, all newly installed, renovated and repaired grid-connected PV generation system and its grid-connected inverter must be inspected before operation.

8.2 Inverter Power-On

Please strictly follow the following steps to turn on the inverter and complete the grid-connected operation of the inverter:

Step 1: Make sure that all items checked in section 8.1 are satisfied.

Step 2: Close the AC side circuit breaker of the inverter public grid and the DC switch integrated with the inverter.

Step 3: Observe the status of the inverter LEDs (see 2.8 LED Status Description for details).

8.3 Inverter Power-Off

⚠ CAUTION

- 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.
- Before dismantling the inverter, both AC and DC must be powered down.
- If the inverter has more than two DC terminals, the outer DC connector needs to be removed before the inner DC connector can be removed.
- It is not necessary to shut down the inverter under normal circumstances, but it is necessary to shutdown the inverter when maintenance or repair work needs to be performed.

Follow the steps below to disconnect the inverter from the AC and DC power sources, as failure to do so may result in injury or damage to the equipment

Step 1: Disconnect the external AC circuit breaker and prevent reconnection due to misuse.

Step 2: Disconnect the external DC circuit breaker and turn the DC switch of the inverter to "OFF".

Step 3: Wait for at least 5 minutes until the internal capacitor is completely discharged.

Step 4: Use a current clamp to check the DC cable to make sure there is no current.

8.4 Inverter Removal

⚠ CAUTION

- Danger of burns and electric shocks !
- After disconnecting the inverter from the grid and the PV panels, wait at least 5 minutes before touching the internal conductive components.

ℹ NOTICE

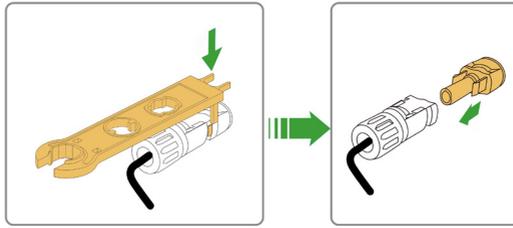
- Before dismantling the inverter, both AC and DC must be powered down.
- If the inverter has more than two DC terminals, the outer DC connector needs to be removed before the inner DC connector can be removed.

Step 1: Refer to "6. Electrical Connections " and follow the steps in reverse order to disconnect all electrical connections from the inverter. To remove the DC connector, use the MC4 wrench to loosen the locking part of the DC connector and install the waterproof plug.

Step 2: Refer to "5. Mechanical Installation" and follow the steps in reverse order to remove the inverter.

Step 3: (Optional) If necessary, remove the bracket.

Step 4: If the inverter is to be put into use at a later date, store the inverter properly as described in "3.2 Inverter Storage ".



8.5 Inverter Disposal

Some parts and equipment of the inverter, such as capacitors, may cause environmental pollution.

NOTICE

- Please do not dispose of this product with household waste, and dispose of it in accordance with the regulations for disposal of electronic waste used at the installation site.

9 Maintenance and Trouble-shooting

9.1 Routine Maintenance

In the solar photovoltaic grid-connected power generation system, the inverter can automatically complete the operation of grid-connected power generation and stop-start without human control.

In order to ensure and extend the service life of the inverter, in addition to using the inverter in strict accordance with the contents of this manual, it is necessary to perform the necessary routine maintenance and repair of the inverter.

DANGER

- Disconnect the grid-side AC circuit breaker, then disconnect the DC switch.
- Wait at least 5 minutes until the internal components are discharged before performing maintenance or service operations.
- Use test equipment to verify that no voltages or currents are present.

CAUTION

- When performing electrical connections and maintenance, post warning signs to prevent non-personnel from entering the electrical connection or maintenance area.
- Restart the inverter only after troubleshooting faults that affect the safety performance of the inverter.
- The inverter does not contain service parts inside, do not replace the internal components of the inverter without permission.
- Please contact Hyxi after-sales service for maintenance, unauthorized disassembly of the machine Hyxi will not assume any warranty and joint and several responsibilities.

Inspection content	Inspection method	Maintenance interval
Save inverter operation data	Use monitoring software to read the inverter data in real time and regularly backup the data recorded by the monitoring software. Save the operation data, parameters, and logs of the inverter recorded in the monitoring software to a file. Check the monitoring software and view various parameter settings of the inverter through the hand-held keyboard.	Once every three months

Inverter operation condition	<ul style="list-style-type: none"> Observe whether the inverter is firmly installed, and whether there is damage or deformation. Listen to the inverter for abnormal sounds. When the system is connected to the grid, check various variables. Check whether the inverter housing is heating normally, and use a thermal imager to monitor the system heating. 	Once a year or once every six months
Inverter cleaning	Check the humidity and dust in the environment around the inverter, and clean the inverter if necessary.	Once a year or once every six months
Electrical connection	<ul style="list-style-type: none"> 检查系统电缆连接是否松动以及逆变器接线端子是否松动。 检查电缆是否有损坏, 特别是与金属表面接触的绝缘层是否有割伤。 	Once a year or once every six months
Safety functions	<ul style="list-style-type: none"> 检查逆变器指示灯和系统关机功能。 模拟关机并检查关机信号通信。 检查警告标签, 必要时更换。 	Once a year or once every six months

9.2 Fault Code

Fault code	Fault description	Solution
7232	Grid overvoltage/high voltage level 1	<p>After the grid returns to normal, inverter will re-connected to it generally.</p> <ul style="list-style-type: none"> Measure the actual grid voltage, if the grid voltage is truly higher than the set value, please contact the utility. Check the protection parameter setting of the upper computer and confirm that it meets the requirements. Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7233	Grid overvoltage/high voltage level 2	Same as high voltage level 1
7234	Grid overvoltage/high voltage level 3	Same as high voltage level 1
7235	Grid transient overvoltage	After the grid returns to on-grid status, inverter will be re-connected to it generally. If the fault occurs repeatedly, please contact Hyxipower customer service.
7236	Grid overvoltage (10 minutes)	<ul style="list-style-type: none"> Wait for the inverter to return to normal. Check the grid voltage. Confirm that it is not the above reasons, and the fault still exists, please contact Hyxipower customer service.

Fault code	Fault description	Solution
7237	Grid undervoltage/low voltage level 1	<p>After the grid returns to normal, inverter will be re-connected to it generally.</p> <ul style="list-style-type: none"> • Measure the actual grid voltage, if the grid voltage is truly lower than the set value, please contact the power company. • Check the protection parameter settings of the inverter. • If the grid voltage is normal, please check whether the AC wiring is tight. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7238	Grid undervoltage/low voltage level 2	Same as low voltage level 1
7239	Grid undervoltage/low voltage level 3	Same as low voltage level 1
7240	Grid overfrequency/high frequency level 1	<p>After the grid returns to normal, inverter will be re-connected to it generally. If the fault occurs repeatedly:</p> <ul style="list-style-type: none"> • Measure the actual grid frequency, if the grid frequency is really higher than the setting range, please contact the local power company to seek a solution. • Check whether the protection parameter settings meet the requirements through APP or LCD screen. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7241	Grid overfrequency/high frequency level 2	Same as high frequency level 1
7242	Grid underfrequency/low frequency level 1	<p>After the grid returns to normal, inverter will be re-connected to it generally. If the fault occurs repeatedly:</p> <ul style="list-style-type: none"> • Measure the actual grid frequency, if the grid frequency is really lower than the setting range, please contact the local power company to seek a solution. • Check whether the protection parameter settings meet the requirements through APP or LCD screen. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.

Fault code	Fault description	Solution
7243	Grid underfrequency/low frequency level 2	Same as low frequency level 1
7247	Inverter A-phase overcurrent fault	Fail-safe threshold is set too low.
7248	Inverter B-phase overcurrent fault	Fail-safe threshold is set too low.
7249	Inverter C-phase overcurrent fault	Fail-safe threshold is set too low.
7250	Inverter A-phase transient overcurrent fault	<ul style="list-style-type: none"> • Fail-safe threshold is set too low. • Hardware damage. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7251	Inverter B-phase transient overcurrent fault	<ul style="list-style-type: none"> • Fail-safe threshold is set too low. • Hardware damage. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7252	Inverter C-phase transient overcurrent fault	<ul style="list-style-type: none"> • Fail-safe threshold is set too low. • Hardware damage. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7259	LN short-circuit	Please contact Hyxipower customer service.
7265	Inverter Hardware Overcurrent Fault	<ul style="list-style-type: none"> • Power off and restart the inverter. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7267	Hardware overcurrent fault on INV load side	<ul style="list-style-type: none"> • Try inverter power down and restart. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7296	Boost1_PV Reverse Fault	<ul style="list-style-type: none"> • Check the polarity of the PV input side, if reversed, reconnect. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.

Fault code	Fault description	Solution
7297	Boost2_PV Reverse Fault	Same as Boost1_PV Reverse Fault
7298	Boost3_PV Reverse Fault	
7299	Boost4_PV Reverse Fault	
7300	Boost5_PV Reverse Fault	
7301	Boost6_PV Reverse Fault	
7302	Boost7_PV Reverse Fault	
7303	Boost8_PV Reverse Fault	
7304	Boost9_PV Reverse Fault	
7305	Boost10_PV Reverse Fault	
7306	Boost11_PV Reverse Fault	
7307	Boost12_PV Reverse Fault	
7327	Boost1_PV overvoltage	
7329	Boost2_PV overvoltage	Same as Boost1_PV overvoltage
7331	Boost3_PV overvoltage	
7333	Boost4_PV overvoltage	
7335	Boost5_PV overvoltage	
7337	Boost6_PV overvoltage	
7339	Boost7_PV overvoltage	
7341	Boost8_PV overvoltage	
7343	Boost9_PV overvoltage	
7345	Boost10_PV overvoltage	
7347	Boost11_PV overvoltage	
7349	Boost12_PV overvoltage	
7626	Boost1_PV Overload Fault	<ul style="list-style-type: none"> Try to confirm that the single PV power is not higher than the maximum access power. Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7627	Boost2_PV Overload Fault	Same as Boost1_PV Overload Fault

Fault code	Fault description	Solution
6848	High ambient temperature	<p>After the internal temperature or module temperature returns to normal, inverter will be re-connected to the network generally. If the fault occurs repeatedly:</p> <ul style="list-style-type: none"> • Check whether the ambient temperature of inverter is too high. • Check whether inverter is in an easily ventilated place. • Check whether inverter is in direct light, if so, please shade properly. • Check whether the fan is running normally, if not , please replace the fan. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
6849	Low ambient temperature	<p>Shut down and disconnect the inverter. Waiting for the ambient temperature to rise to within the inverter operating temperature range , then restart the inverter.</p>
7365	Leakage current exceeds the standard	<p>Humid environment of the battery panel or bad light will cause this fault, normally, the inverter will be re-connected to the grid after the environment is improved.</p> <ul style="list-style-type: none"> • If the environment is normal, check whether the insulation of DC and AC cables is normal. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7366	Low system insulation impedance	<p>Wait for the inverter to return to normal, if the fault occurs repeatedly:</p> <ul style="list-style-type: none"> • Check whether the ISO impedance protection value is too high through APP, and confirm that it meets the requirements of local regulations. • Check the strings and the DC cable impedance to ground, if there is a short-circuit or the cable insulation layer is broken, please take corrective measures. • If the cables are normal and the fault occurs on a rainy day, reconfirm after the weather improves. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.

Fault code	Fault description	Solution
7367	Ground Fault	<ul style="list-style-type: none"> • Check whether the AC cable is connected to the wrong wire sequence. • Check whether the insulation between ground and fire wire is normal. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7371	AFCI Fault	<ul style="list-style-type: none"> • Disconnect the DC power, check the DC side whether there are broken cables, loose connection terminals or fuses and poor contact, burn marks on parts, etc. If there are, replace the broken cables, tighten the loose connection terminals or fuses, and replace the parts with burn marks. • After completing step 1 DC side inspection and corrective repair, reconnect the DC power and clear the AFCI faults through the LCD screen or APP, the inverter will operate normally again. • Confirmation of non-above reasons, and the fault still exists, please contact Hyxipower customer service.
7374	Inverter A-phase Overcurrent hardware Fault	If the fault occurs repeatedly, please contact Hyxipower customer service.
7375	Inverter B-phase Overcurrent hardware Fault	If the fault occurs repeatedly, please contact Hyxipower customer service.
7376	Inverter C-phase Overcurrent hardware Fault	If the fault occurs repeatedly, please contact Hyxipower customer service.
7377	BUS overvoltage hardware Fault	<ul style="list-style-type: none"> • Account for the reasonableness of the PV string voltage. • If the fault occurs repeatedly, please contact Hyxipower customer service.
7378	Upper half bus overvoltage hardware Fault	<ul style="list-style-type: none"> • Account for the reasonableness of the PV string voltage. • If the fault occurs repeatedly, please contact Hyxipower customer service.
7379	Lower half bus overvoltage hardware Fault	<ul style="list-style-type: none"> • Account for the reasonableness of the PV string voltage. • If the fault occurs repeatedly, please contact Hyxipower customer service.

Fault code	Fault description	Solution
7380	Boost1_PV Hardware Overcurrent Fault	If the fault occurs repeatedly, please contact Hyxipower customer service.
7381	Boost2_PV Hardware Overcurrent Fault	
7382	Boost3_PV Hardware Overcurrent Fault	
7383	Boost4_PV Hardware Overcurrent Fault	
7384	Boost5_PV Hardware Overcurrent Fault	
7385	Boost6_PV Hardware Overcurrent Fault	
7386	Boost7_PV Hardware Overcurrent Fault	
7387	Boost8_PV Hardware Overcurrent Fault	
7388	Boost9_PV Hardware Overcurrent Fault	
7389	Boost10_PV Hardware Overcurrent Fault	
7390	Boost11_PV Hardware Overcurrent Fault	
7391	Boost12_PV Hardware Overcurrent Fault	
7392	Inverter Self-Test Fault	<ul style="list-style-type: none"> • Power down and restart or clear the fault from the self-test menu. • If the fault still exists in the self-test startup again, please contact Hyxipower customer service!
7488	Main and auxiliary DSP communication abnormality	<ul style="list-style-type: none"> • Try to power down and restart the inverter. • Confirmation of non-above reason, and the fault still exists, please contact Hyxipower customer service.
7489	DSP2 communication abnormality	
7491	Fan Warning	<ul style="list-style-type: none"> • Power down and restart the inverter . • Check if the fan wiring is loose or damaged and whether the fan blades are blocked. • Confirmation of non-above reason, and the fault still exists, please contact Hyxipower customer service.
7492	Inverter Over-temperature Warning	<ul style="list-style-type: none"> • Check if the ambient temperature is too high. • Confirmation of non-above reason, and the fault still exists, please contact Hyxipower customer service.
7493	Boost Over-temperature Warning	<ul style="list-style-type: none"> • Check if the ambient temperature is too high. • Confirmation of non-above reason, and the fault still exists, please contact Hyxipower customer service.

Fault code	Fault description	Solution
7494	DSP Over-temperature Warning	<ul style="list-style-type: none"> • Check if the ambient temperature is too high. • Confirmation of non-above reason, and the fault still exists, please contact Hyxipower customer service.
7495	Inverter Under-temperature Warning	Shut down and disconnect the inverter. Wait for the INV side temperature to rise to within the inverter operating temperature range, then restart the inverter.
7496	Boost Under-temperature Warning	Shut down and disconnect the inverter. Wait for the PV side temperature to rise to within the inverter operating temperature range, then restart the inverter.
7497	DSP Under-temperature Warning	Shut down and disconnect the inverter. Wait for the environment temperature to rise to within the inverter operating temperature range, then restart the inverter.
7498	ARM communication Abnormalty	<ul style="list-style-type: none"> • Try to power down and restart the inverter. • Confirmation of non-above reason, and the fault still exists, please contact Hyxipower customer service.
7502	Temperature Warning	<ul style="list-style-type: none"> • Check if the ambient temperature is too high. • Confirmation of non-above reason, and the fault still exists, please contact Hyxipower customer service.
7504	Negative grid sequence	Please contact Hyxipower customer service.
7505	DC lightning protection	
7506	AC lightning protection	

Fault code	Fault description	Solution
7427	Bat1 Battery Hardware Overvoltage Fault	Please contact Hyxipower customer service.
7428	Bat1 Battery Hardware Overcurrent Fault	
7552	Meter communication	
7553	Battery communication	
7554	Overload Fault	
7555	Product type error	
7556	AFCI communication fault	
7557	Power level mismatch	
7558	AFCI arc fault	
7559	Insufficient off-grid energy supply	
7560	Battery sleep	
7561	Battery Emergency Stop Fault	
7562	Optimizer communication Fault	

10 Appendix

10.1 Technical Parameter

Product Model	HYX-H15K-HT	HYX-H20K-HT	HYX-H25K-HT
PV Input			
Max. Array Power [W]	30000	40000	50000
Max. Input Power [W]	6000/6000/6000/6000	8000/8000/8000/8000	10000/10000/10000/10000
Max. Input Voltage [V]		1100	
Start-up Voltage [V]		160	
MPPT Operating Voltage Range [V]		140 ~ 1000	
Max. Input Current [A]		80 (20*2/20*2)	
Max. Short-circuit Current [A]		120 (30*2/30*2)	
Number of MPP Trackers		2	
PV input number (Number of String Per MPPT)		4 (2/2)	
AC Input / Output			
Nominal Input / Output Apparent Power [VA]	31500/15000	42000/20000	52500/25000
Max. Input / Output Apparent Power [VA]	33000/16500	44000/22000	55000/27500
Nominal Input / Output Current [A]	47.8/22.8	63.7/30.4	79.5/37.9
Max. Input / Output Current [A]	50/25	66.7/33.4	83.4/41.7
Nominal Output Voltage [V]	3/N/PE, 220V/380V, 230V/400V, 240V/415V		
THDi	< 3%		
Output Voltage Range [V]	304 ~ 476		
Frequency	50 / 60Hz		
Adjustable Power Factor	0.8 leading...0.8 lagging		
DC Current Injection	< 0.5% In		
Back-Up(AC Output)			
Nominal Output Power [W]	15000	20000	25000
Max. Continues Output Apparent Power [VA]	16500	22000	27500
Peak Output Power [W]	22500; 10s	30000,10s	30000,10s
Nominal Output Current [A]	22.8	30.4	37.9
Max. Output Current [A]	34.1	45.5	56.9
Switch Time	< 10ms		
Battery			
Battery Type	LiFePO4		
Battery Voltage Range [V]	150 ~ 600		
Max. Charge/Discharge Current [A]	60		
Max. Charge Power [W]	16500	22000	27500
Max. Discharge Power [W]	15000	20000	25000
Efficiency			
Max. Efficiency	98.60%		
European Weighted Efficiency	98.20%		

Product Model	HYX-H15K-HT	HYX-H20K-HT	HYX-H25K-HT
MPPT Efficiency		99.90%	
Battery Charge/ Discharge Efficiency		97.70%	
Protection			
DC Insulation Resistance Detective		Yes	
Residual Current Monitoring Unit		Yes	
DC Reverse Polarity Protection		Yes	
DC/AC Surge Protection		Type II	
DC Switch		Yes	
Anti-islanding Protection		Yes	
AC Over Current Protection		Yes	
AC Short-circuit Protection		Yes	
AC Over Voltage Protection		Yes	
Grounded Fault Detection		Yes	
General Data			
Operating Temperature Range [°C]		-30 ~ +60°C	
Relative Operating Humidity [RH]		0 ~ 100% RH	
Max. Operating Altitude [m]		4000	
Cooling	Natural Cooling		Fan Cooling
Display		LED / App / Web	
Communication		CAN / RS485 / PLC / WIFI / 4G / LAN	
Weight [kg]		45	
Dimensions (W*H*D) [mm]		650*500*250	
Degree of Protection		IP65	
Mounting		Wall Mounted	

10.2 Function Setting Explanation

10.2.1 Work Mode

HYXI inverter can meet different scenarios based on different needs. There're totally 4 on-grid working mode(Depending on the needs of different usage scenarios, customers can customise the effective period of these four working modes.) and 1 off-grid working mode(Automatic switching from on-grid to off-grid mode in case of blackout).

- Selfuse: Make energy self-circulating to achieve the purpose of buying as little electricity as possible from grid.
- Backup: Do not to use battery to ensure always have enough backup. Not allowed to buy electricity from grid to charge battery.
- Forced charge: Do not to use battery to ensure always have enough backup. Forced to buy electricity from grid to charge battery at the settled power.
- Feedin: Feedin energy to grid at maximum power until battery reaches min SOC.

Please see more details in 3.2.5 Device Operations of APP user manual.



10.2.2 Export Control

This function determines the upper limit of the power allowed to feedin to GRID.

If disabled, there will be no restriction on the power fed into the grid(PV energy will not feedin grid but only supply loads or battery).

- If set to 0, feed-in to GRID is completely disallowed(0 injection).
- If set to 1000W, the maximum power for feedin will not exceed 1000W (rather than forcing it to be exactly 1000W for feedin).

10.2.3 Battery-Free

When enabled, hybrid inverter will be allowed to operate without batteries and work as string inverter.

When disabled, hybrid inverter will give an error and shut down when there's no batteries.

10.2.4 DRM(AU/NZ)

The inverter provides a terminal block for connecting to a demand response enabling device (DRED). The DRED asserts demand response modes (DRMs). The inverter detects and initiates a response to all supported demand response commands within 2s.

The following table lists the DRMs supported by the inverter.

Mode	Explanation
DRM0	The inverter is in the state of "Turn off".
DRM1	The import power from the grid is 0.
DRM2	The import power from the grid is no more than 50 % of the rated power.
DRM3	The import power from the grid is no more than 75 % of the rated power.
DRM4	The import power from the grid is 100 % of the rated power, but subject to the constraints from other active DRMs.
DRM5	The feed-in power to the grid is 0.
DRM6	The feed-in power to the grid is no more than 50 % of the rated power.
DRM7	The feed-in power to the grid is no more than 75 % of the rated power.
DRM8	The feed-in power to the grid is 100 % of the rated power, but subject to the constraints from other active DRMs.

CAUTION

- The inverter only supports DRM0

10.3 Contact Information

If you have any questions about this product, please contact us.

In order to provide you with faster and better after-sales service, we need your assistance in providing the following information.

- Equipment model : _____
- Serial number of the equipment: _____
- Fault code / name: _____
- A brief description of the fault phenomenon: _____

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The manual is subject to change without notice while the product is being improved.



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