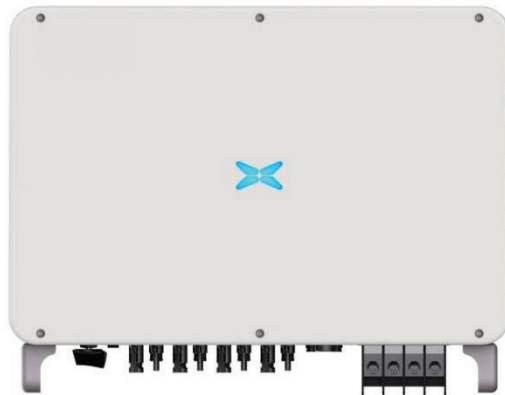


INSTRUCTION MANUAL

50 - 60Kw GRID TIED SOLAR INVERTER



| SKU | MODEL |
|-------|------------|
| 11521 | VT-6607150 |
| 11631 | VT-61060 |



MULTI-LANGUAGE MANUAL QR CODE

Please scan the QR code to access the manual in multiple languages.

Preface

The manual is intended to provide detailed information of product information, installation, application, trouble shooting, precautions and maintenance of iMars series grid-tied solar inverters. The manual does not contain all the information of photovoltaic system. Please read this manual carefully and follow all safety precautions seriously before any moving, installation, operation and maintenance to ensure correct use and high performance of operation on the inverter.

The use of the iMars series grid-tied solar inverters must comply with local laws and regulations on grid-tied power generation.

The manual needs to be kept well and be available at all times.

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There might be some deviations on actual inverter and data due to product updating, please refer to the actual product.

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1. Safety precautions

iMars series grid-tied solar inverters are designed and tested strictly in accordance with relevant international safety standards. As an electrical and electronic device, all relevant safety regulations must be strictly complied during installation, operation, and maintenance. Incorrect use or misuse may result in:









- Injury to the life and personal safety of the operator or other people.
- Damage to the inverter or other property belonging to the operator or other people.

In order to avoid personal injury, damage to the inverter or other devices, please strictly observe the following safety precautions.


This chapter mainly describes various warning symbols in operation manual and provides safety instructions for the installation, operation, maintenance and use of the iMars series grid-tied solar inverters.







1.1 Warning marks

Warning marks is alerting users to conditions which may cause serious physical injury or death, or damage to the device. They also tell users how to prevent the dangers. The warning marks used in this operation manual are shown below:


| Mark | Name | Instruction | Abbreviation |
|--|-------------------------|--|---|
|  Danger | Danger | Serious physical injury or even death may occur if not follow relevant requirements. |  |
|  Warning | Warning | Physical injury or damage to the device may occur if not follow relevant requirements. |  |
|  Forbid | Electrostatic sensitive | Damage may occur if relevant requirements are not followed. |  |
|  Hot | High temperature | Do not touch the base of the inverter as it will become hot. |  |
| Note | Note | The procedures taken for ensuring proper operation. | Note |

1.2 Safety guidance

| | |
|---|---|
|  | <ul style="list-style-type: none"> ● After receiving this product, first please confirm the product package is intact. If any question, please contact the logistic company or local distributor immediately. ● The installation and operation of PV inverter must be carried out by professional |
|---|---|


| | |
|---|--|
| | <p>technicians who have received professional trainings and thoroughly familiar with all the contents in this manual and the safety requirements of the electrical system.</p> <ul style="list-style-type: none"> ● Do not carry out cable connection/disconnection, cover open for inspection and unit replacement operations on the inverter when power is connected. Before wiring and inspection, users must confirm the breakers on DC and AC side are disconnected and wait for at least 5 minutes. |
|  | <ul style="list-style-type: none"> ● Ensure there is no strong electromagnetic interference caused by other electronic or electrical devices around the installation site. ● Do not refit the inverter unless authorized. ● All the electrical installation must conform to local and national electrical standards. |
|  | <ul style="list-style-type: none"> ● Do not touch the housing of the inverter or the radiator to avoid scald as they may become hot during operation |
|  | <ul style="list-style-type: none"> ● Must be reliably grounded before operation. |
|  | <ul style="list-style-type: none"> ● Do not open the surface cover of the inverter unless authorized. The electronic components inside the inverter are electrostatic sensitive. Do take proper anti-electrostatic measures during authorized operation. |
|  | <ul style="list-style-type: none"> ● Grounding mark. The inverter must be reliably grounded. |
|  | <ul style="list-style-type: none"> ● Discharging mark. Ensure that DC and AC side circuit breakers have been disconnected and wait at least 5 minutes before wiring and checking. |
| <p>Note: Technical personnel who can perform installation, wiring, commissioning, maintenance, troubleshooting and replacement of the iMars series grid-tied solar inverters must meet the following requirements:</p> | |
| <ul style="list-style-type: none"> ● Operators need professional training. ● Operators must read this manual completely and master the related safety precautions. ● Operators need to be familiar with the relevant safety regulations for electrical systems. ● Operators need to be fully familiar with the composition and operating principle of the entire grid-tied photovoltaic power generation system and related standards of the countries/regions in which the project is located. ● Operators must wear personal protective equipment. | |

1.2.1 Transport and installation


| | |
|---|--|
|  | <ul style="list-style-type: none"> ● During storage or transport, ensure the inverter package and the chassis is intact, dry and clean. ● The movement and installation of the inverter require at least two persons due to its heavy weight. ● Select proper tools for movement and installation to ensure the inverter can operate normally and avoid physical injury. The installation personnel must take mechanical protective measures such as wearing anti-drop shoes or working clothes to protect physical security. ● The inverter must be installed by professional technicians. ● Do not store or install the inverter on or close to flammable and explosive objects; ● Do not install the inverter in the place where children and other public can easily touch ● Remove the metal accessories in hands eg ring or bracelet before device installation and electrical connection to avoid electric shock. ● The solar cell module exposed to the sunlight may generate dangerous voltage. Users must cover the solar cell with fully-lightproof materials before electrical connection ● The inverter input voltage cannot exceed the max input voltage, otherwise the inverter may be damaged. ● PV grid-connected inverter is not applicable to the positive or negative ground system of solar cell panel. ● Ensure inverter PE is grounded properly, otherwise the inverter cannot run normally. ● Ensure the inverter is installed firmly and electrical wiring is reliable. |
|---|--|

Note: PV grid-connected inverter is only suitable for crystalline silicon-type solar battery component.


1.2.2 Grid-connected operation

| | |
|---|---|
|  | <ul style="list-style-type: none"> ● Permissions by local electric power agency must be obtained and the inverter grid-connected power generation operation must be done by professional technicians. ● All electrical connections must meet the electrical standards of the countries/regions in which the project is located. ● Ensure the inverter is installed firmly and electrical wiring is reliable before operating on the inverter. ● Do not open the inverter when it is running or connecting power |
|---|---|

1.2.3 Maintenance and inspection

| | |
|---|---|
|  | <ul style="list-style-type: none">● The maintenance, inspection and repair of the inverter must be done by well trained and qualified professional technicians.● Contact distributor or manufacture for inverter repairing.● In order to avoid irrelevant personnel entering the maintenance area during maintenance, temporary warning labels must be placed to warn non-professionals to enter or please isolate with fences.● Before carrying out any maintenance operations, users must disconnect the breaker on grid side, then disconnect the breaker connected to the PV module and wait-at least 5 minutes until the internal parts of the inverter are fully discharged.● The internal of inverter are mostly electrostatic-sensitive circuits and parts, users must follow electrostatic protection rules and take anti-electrostatic measures.● Do not use components provided by other companies when repairing the inverter.● The inverter can be started again for grid-connected power generation only after confirming there is no fault that may impact the safety performance of the inverter.● Do not get close to or touch the grid or any metal conductive parts in the PV power generation system during operation, otherwise electric shock or fire may occur. Take note of any safety marks and instructions such as "Danger, electric shock risk". |
|---|---|

1.2.4 Waste disposal

| | |
|---|--|
|  | <ul style="list-style-type: none">● Do not dispose of the inverter together with household waste. The user has the responsibility and obligation to send it to the designated organization for recycling and disposal. |
|---|--|

2 Product overview

This chapter mainly introduces the appearance, package accessories, nameplate, technical parameters of the grid-connected inverter.

2.1 PV grid-connected power generation system

PV grid-connected power generation system is comprised of solar battery component, grid-connected inverter, power energy gauging device and public grid.

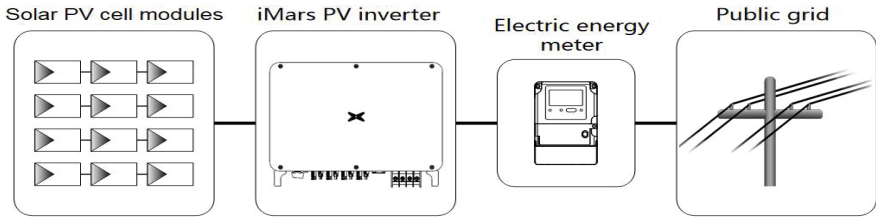



Fig 2.1 Application of PV grid-connected inverter

The PV grid-connected inverter is the core part of solar PV grid-connected power generation system. The sunlight can be converted through PV panel to DC power, which further converted by grid-tied inverter to the sine AC current with the same frequency and phase position as the public grid, then feedback the AC power to the grid.

| | |
|---|--|
|  | <ul style="list-style-type: none"> It is recommended that the PV array to be installed conforms to IEC 61730 class A standards. |
|---|--|

2.1.1 Supported grid connection structure

iMars series grid-tied solar inverters support TN-S, TN-C, TN-C-S, TT and IT grid connection. When applied to the TT connection, the N-to-PE voltage should be less than 30V.

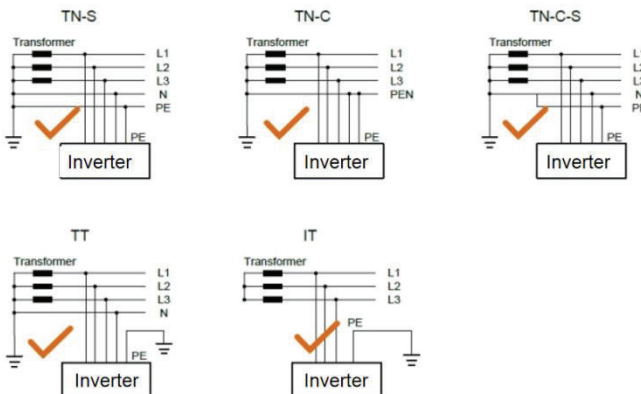


Fig 2.2 Type of grid

2.2 Product appearance

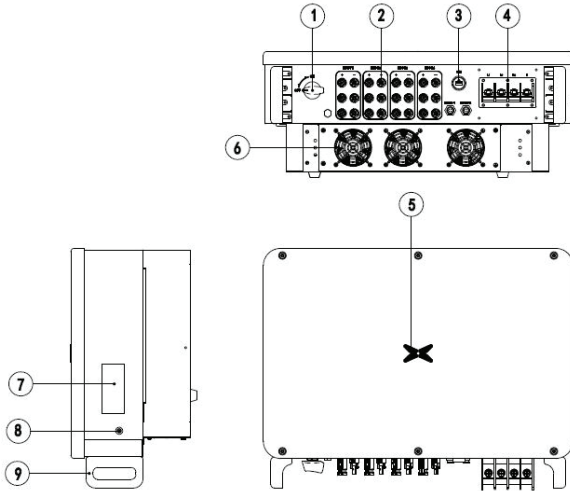


Figure 2.3 Appearance of the three-phase PV inverter

Table 2-1 Description of key exterior components of three-phase PV inverters

| Serial number | Name | Description |
|---------------|-----------------------------|--|
| 1 | DC switch | Connect DC input |
| 2 | DC input interface | Inverter DC input terminal, connected to the PV array |
| 3 | Communication interface | RS485 communication interface and its extension port EXT |
| 4 | AC terminal | Inverter AC output port, connect to public grid |
| 5 | LED pilot lamp | Instructions inverter current working condition |
| 6 | Fan Installation components | Air inlet, for fixing the fan |
| 7 | Nameplate | Mark the inverter rating parameter |
| 8 | Ground terminals /4 | Two nos, at least one was selected for connection |
| 9 | Base handle | Two left and right for handling of inverter |

2.3 Nameplate description

Figure 2.4 shows the inverter nameplate.








| | | |
|--|-----------------|---|
| Grid-tied Solar Inverter | | 1 |
| VT-61060 | | |
| DC Input | | 2 |
| Vmax. PV | 1100V | |
| MPPT Range | 200V-1000V | |
| Max. Current | 39A/39A/39A/39A | |
| Isc PV | 48A/48A/48A/48A | |
| AC Output | | |
| Nominal Voltage | 3/N/PE,230/400V | |
| Max. Current | 95.6A | |
| Rated Power | 60000W | |
| Max. Output Power | 66000VA | |
| Frequency | 50Hz/60Hz | |
| Power factor range | 0.80un ~ 0.80ov | |
| Environment | | 3 |
| Temperature | -30°C ~ +60°C | |
| Protective Class | I | |
| Inverter topology | Non-isolated | |
| Ingress protection | IP66 | |
|    | | |
| <div style="border: 1px dashed black; width: 200px; height: 40px; margin: 0 auto;"></div> | | |
| Made in China | | |
| INVT Solar Technology (Shenzhen) Co.,Ltd. | | |

Fig 2.4 Inverter nameplate

- (1) Trademarks and product types
- (2) Model and important technical parameters
- (3) Certification system of the inverter confirming, serial number, company name and country of origin

| Icons | Instruction |
|---|--|
|  | <ul style="list-style-type: none"> ● TUV certification mark. The inverter is certified by TUV |
|  | <ul style="list-style-type: none"> ● CE certification mark. The inverter complies with the CE directive |
|  | <ul style="list-style-type: none"> ● CQC certification mark. The inverter passed CQC certification |
|  | <ul style="list-style-type: none"> ● EU WEEE mark. The inverter cannot be disposed of as domestic waste |

2.4 Product model

Table 2-2 Models of three-phase PV grid-connected inverters

| Product name | Model | Rated output power (W) |
|--|----------|------------------------|
| three-phase (L1、L2、L3、N、PE) | | |
| Three-phase PV grid-connected inverter | XG50KTR | 50000 (400Vac system) |
| Three-phase PV grid-connected inverter | XG60KTR | 60000 (400Vac system) |
| Three-phase PV grid-connected inverter | XG66KTRL | 66000 (480Vac system) |
| Three-phase PV grid-connected inverter | XG70KTRL | 70000 (480Vac system) |

Note: Technical parameters of PV grid-connected inverter refer to the appendix.

2.5 Outline dimension and weight

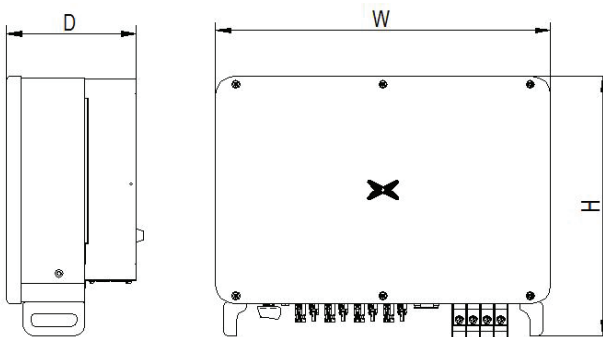


Figure 2.5 Outline dimensions of the inverter

Table 2-3 Dimensions and net weight of the inverter

| Model | Height(mm) | Width(mm) | Depth(mm) | Net weight(kg) |
|----------|------------|-----------|-----------|----------------|
| XG50KTR | 500 | 650 | 260 | 42.5 |
| XG60KTR | 500 | 650 | 260 | 45.3 |
| XG70KTRL | 500 | 650 | 260 | 45.3 |

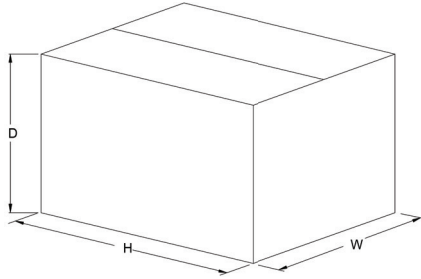


Fig 2.6 Dimension of paper package

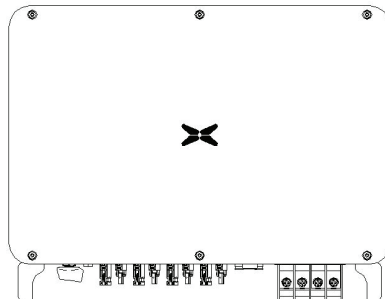
Table 2-4 Package dimension and gross weight

| Model | Height(mm) | Width(mm) | Depth(mm) | Weight(kg) | Package material |
|----------|------------|-----------|-----------|------------|------------------|
| XG50KTR | 785 | 640 | 385 | 47.2 | Corrugated case |
| XG60KTR | 785 | 640 | 385 | 51 | Corrugated case |
| XG70KTRL | 785 | 640 | 385 | 51 | Corrugated case |



2.6 The LED light panel

The LED indicator panel as the human-computer interaction interface, may indicate the working state of the inverter.

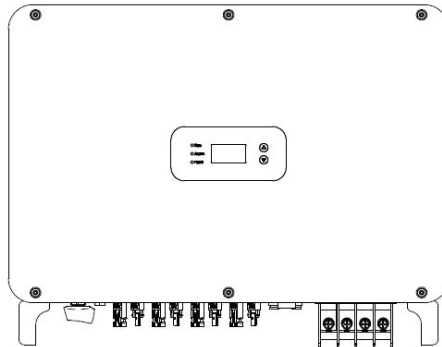
2.6.1 LED light panel



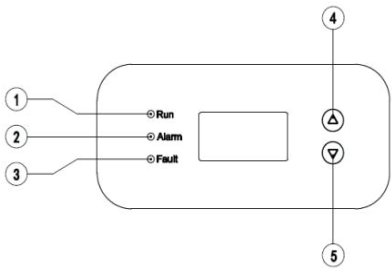
LED indicator status description:

| | | |
|---|--|---|
|  | Steady blue | Normal, grid-tied and generating power |
| | Blinking blue at short interval (0.2s) | Bluetooth connected and with communication. And inverter has no error |
| | Blinking blue at long interval (2s) | DC or AC connected, inverter in standby or starting (no power generation) |
|  | Steady red | Error occurs.(The inverter fail to connect to the grid) |
| | Blinking red | Bluetooth connected and in communicating but inverter has error |
| | Red light off | AC and DC have been powered off. |

2.6.2 LCD operation panel



Definition of LCD operation panel:

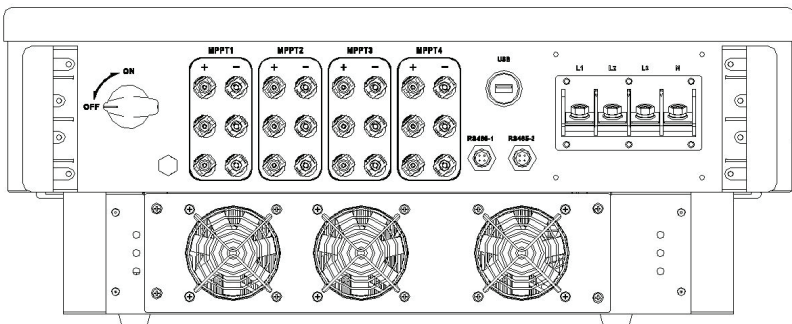
| | |
|---|---|
| 1 "Run", running status, shows green light; |  |
| 2 "Alarm", fault alert, shows yellow light; | |
| 3 "Fault", the PV string is disconnected, shows red light; | |
| 4 Select upwards, short press to move upwards, long press to confirm; | |
| 5 Select downward, short press to move down, long press to return. | |

LED light display status description:

| Indicator light | Instruction | State | Description |
|-----------------|-----------------------------------|---|---|
| Run | Grid-connected indicator light | Green light on | connected to grid |
| | | Green light off | Not connected to grid |
| | | Green light flashes (0.5s On, 0.5s Off) | The inverter is in maintenance status |
| Alarm | Alarm indicator | Yellow light-on | The inverter is in fault state |
| | | Yellow light flashes slowly (1s On, 4S Off) | The Inverter is in alarm state |
| | | Yellow light flashes (0.5s on, 0.5s off) | The inverter is under maintenance |
| Fault | The PV connection indicator light | Red light on | The power-on indicator light indicates that at least one of the photovoltaic strings is connected normally and the input voltage is $\geq 200V$ |
| | | Red light off | The inverter is disconnected from all PV strings, or the DC input voltage of all MPPT circuits is less than 200V |

2.7 Bottom of the chassis

XG40-70KTR is equipped with a DC switch, which connects or disconnects all PV inputs.



XG50KTR Bottom view

3 Inverter storage

If the inverter is not put into use immediately, the storage of inverter should meet the following requirements:

- Do not remove the inverter outer package.
- The inverter needs to be stored in a clean and dry place, and to prevent the erosion of dust and moisture.
- The storage temperature should be kept at $-30^{\circ}\text{C}\sim+70^{\circ}\text{C}$, and the relative humidity should be kept at 5%RH~95%RH.
- If multiple inverters to be stacked, it is recommended to place them according to the original stacking layer number at the time of delivery. When stacking, please place the inverter carefully to avoid personal injury or equipment damage caused by equipment tipping.
- Avoid chemical corrosive substances, otherwise it may corrode the inverter.
- During storage, regular inspections are required. If insect bites or packaging damage are found, the packaging materials must 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.

4 Installation

This chapter introduces the installation of the inverter and the connection of the inverter to the PV power generation system. Connecting inverters to PV power generation systems mainly involves the PV strings and public grids connect to the inverter.

Please read this chapter carefully before installation, and ensure that all installation conditions are met by professional technicians to complete the inverter installation.

4.1 Unpacking confirmation

The inverter has been thoroughly tested and rigorously checked before delivery, but damage may still occur during transportation. Before unpacking, check carefully whether the product information in the order is consistent with that on the nameplate of the package box and whether the product package is intact. If any damage is detected, please contact the shipping company or the supplier directly. Please also provide photos of the damage to get our fastest and best service.

When the inverter is left unused, please put it in the original packing box and take measures to prevent moisture and dust.

Take out the inverter after unpacking, please check the following items:

- (1) Confirm that the inverter host is complete and not damaged;
- (2) Confirm that there are manuals, interface accessories and installation accessories in the packing box;
- (3) Confirm that there is no damage or shortage in the delivery content in the packing box;
- (4) Check whether the order is consistent with the product information on the nameplate of the inverter host;
- (5) The standard delivery list is as follows.

Standard deliverables of three-phase inverter:

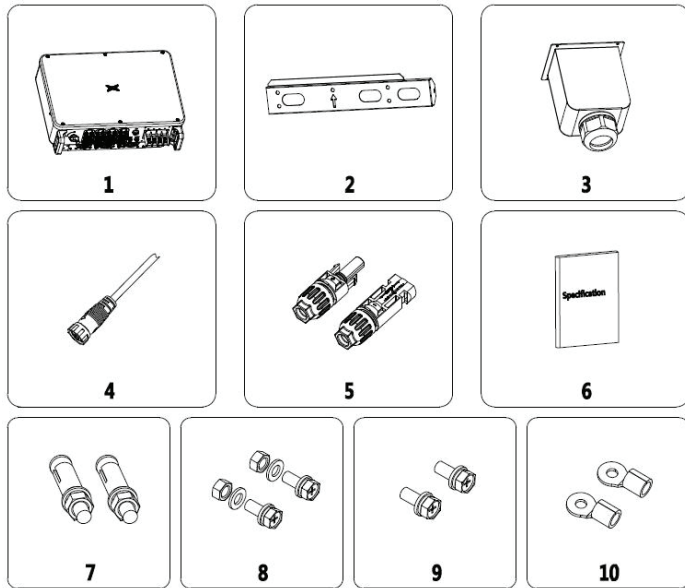


Fig.4.1 Delivery content of three-phase inverter 50-70kW

Table 4-1 delivery contents of three-phase inverter

| Number | Name | Quantity |
|--------|----------------------------|----------|
| 1 | Inverter | 1 |
| 2 | Mounting bracket | 1 |
| 3 | AC output waterproof cover | 1 |
| 4 | 485 communication cable | 1 |
| 5 | DC connector (pair) | 12 |
| 6 | File | 1 |
| 7 | Expansion bolt M8*60 | 5 |
| 8 | M8 combination bolt | 5 |
| 9 | M4 combination screw | 1 |
| 10 | AC terminal | 5 |

Please check the above carefully. If you have any questions, please contact the supplier in time.

4.2 Prepare before installation

4.2.1 Installation tool

Table 4-2 List of installation tools

| Number | Installation tools | instruction |
|--------|-------------------------------|---|
| 1 | Marker pen | Mark the mounting holes |
| 2 | Electric drill | Drill holes in the bracket or wall |
| 3 | Hand hammer | Knock the expansion bolt |
| 4 | Adjustable wrench | For fixed mounting bracket |
| 5 | Hexagon screwdriver | For locking anti-theft screws and for disassembling and disassembling AC junction box |
| 6 | "Flat" or "Cross" screwdriver | For AC wiring |
| 7 | Meg ohmmeter | Measure insulation performance and impedance to ground |
| 8 | Multi-meter | Detect circuit and measure AC and DC voltage |
| 9 | Electric soldering iron | Welding communication cable |
| 10 | Wire crimper | Crimp DC terminal |
| 11 | Hydraulic clamp | Crimp ring terminal for AC wiring |

4.2.2 Installation environment

- (1) The inverter can be installed in indoor and outdoor environment.
- (2) During the operation of the inverter, the temperature of the chassis and heat sink will be relatively high. Please do not install the inverter in the easily touched position.
- (3) Do not install inverters in areas where flammable and explosive materials are stored.
- (4) The inverter shall be installed in a well-ventilated environment to ensure inverter heat dissipation
- (5) It is recommended to choose the installation site with shelter or build

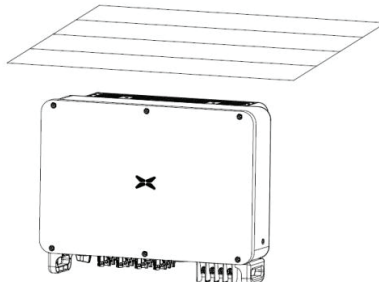


Fig 4.2 Sunshade

- (6) The installation environment temperature is - 25 °C ~ 60 °C ;
- (7) The installation site should be far away from the electronic equipment with strong electromagnetic interference;
- (8) The installation site should be fixed and solid object surface, such as wall, metal support, etc;
- (9) The installation position shall ensure the reliable grounding of the inverter, and the grounding metal conductor material shall be consistent with the reserved grounding metal material of the inverter.

4.3 Space requirements

- (1) The height of installation position shall ensure that the line of sight and LED display light are on the same horizontal plane, so as to check the inverter status conveniently .

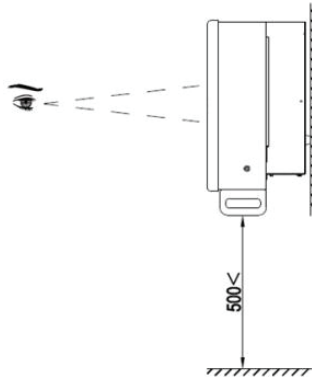


Fig 4.3 Optimum installation height area

- (2) There is enough reserved space around the installation site to facilitate the disassembly and assembly of inverter and air convection. As shown in Fig 4.3.

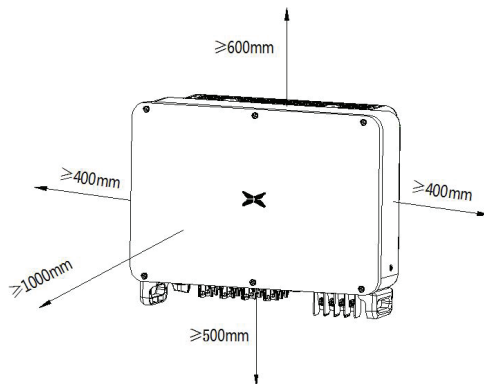


Fig 4.4 Installation spacing of inverter

(3) When installing multiple inverters, a certain distance shall be reserved between the inverters, as shown in Figure 4.4. At the same time, sufficient distance shall be reserved between the upper and lower parts of the inverter to ensure good heat dissipation.

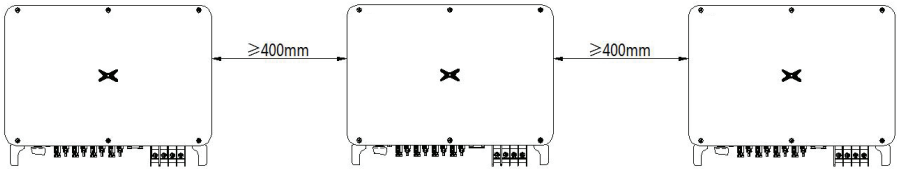


Fig 4.5 Size requirements for side-by-side installation

(4) The installation surface should be perpendicular to the horizontal line, as shown in Figure 4.5. Please install the inverter vertically or backward ≤15° to facilitate the heat dissipation of the machine. Do not tilt the inverter forward, horizontally, upside down, leaning too far, or tilting to the side.

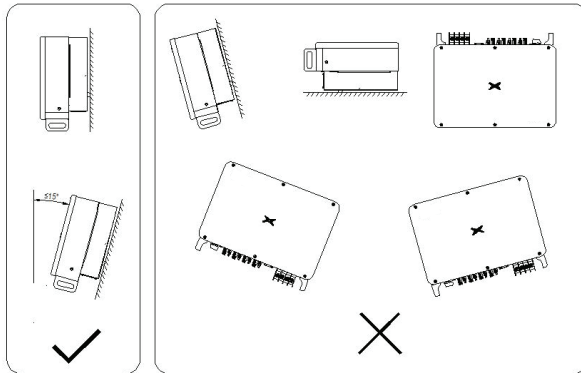


Fig 4.6 Installation position of inverter

4.4 Mounting board size

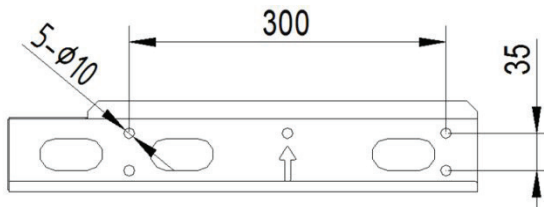
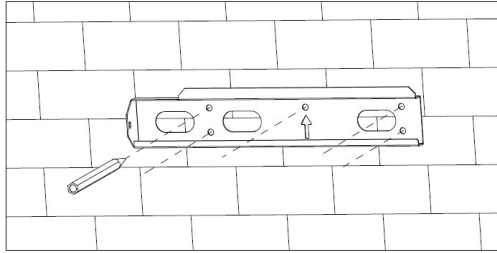


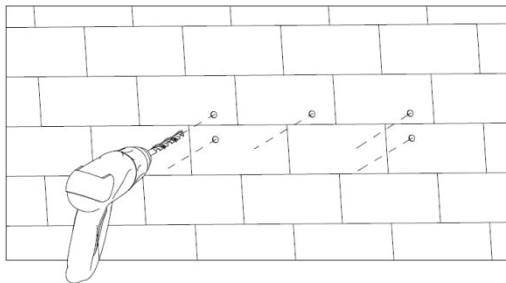
Fig 4.7 Dimensions of the mounting plate

4.5 Wall installation

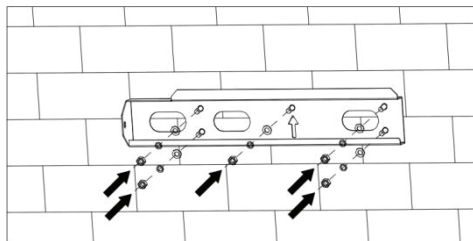
Step 1: Place the hanging board on the wall mounting point, use a level to adjust the angle, and mark with a marker.



Step 2: Use a hammer drill to drill holes and install expansion bolts. Users need to prepare expansion bolts by themselves. It is recommended to use M8×60 stainless steel pressure expansion bolts.



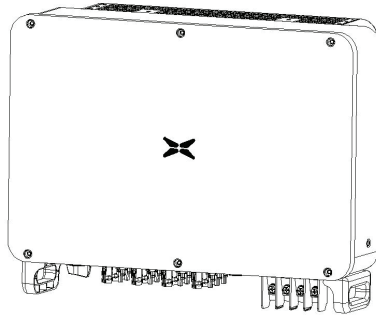
Step 3: Fix the hanging board. Clean the holes, use a rubber hammer to drive the expansion bolt into the hole, use a wrench to tighten the nut to fix the end of the bolt, then remove the nut, spring washer and flat washer, and then fix the wall mount plate to the wall and lock it with a tightening torque of 13N*m. .



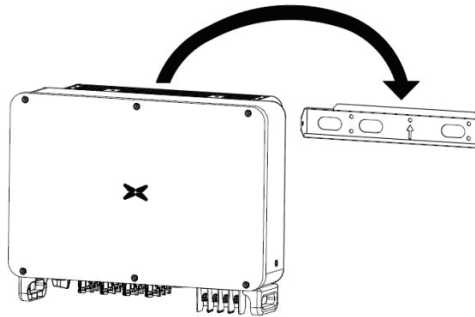
4.6 Install the inverter

Step 1: Take the inverter out of the packaging box.

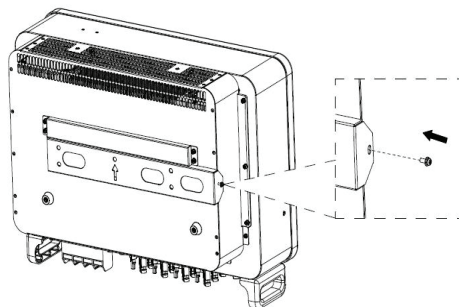
Step 2: If the installation location is high, you need to lift the inverter to the hanging plate, use the lifting equipment to lift the inverter 100mm off the ground and then pause, check the tightness of the hoisting ring and rope. After confirming that the connection is secure, lift the inverter to the destination.



Step 3: After lifting the inverter, buckle the bracket plate on the back of the machine into the wall-mounting plate, and make sure that the machine bracket plate fits well with the groove of the hanging plate.



Step 4: Use an M4×12 screw to fix the inverter with the hole on the left side of the chassis and the wall mount, and the tightening torque is 2.5N*m



5 Electrical connection

5.1 Overview of electrical connections

This section will introduce the electrical connection related content and related safety precautions in detail.

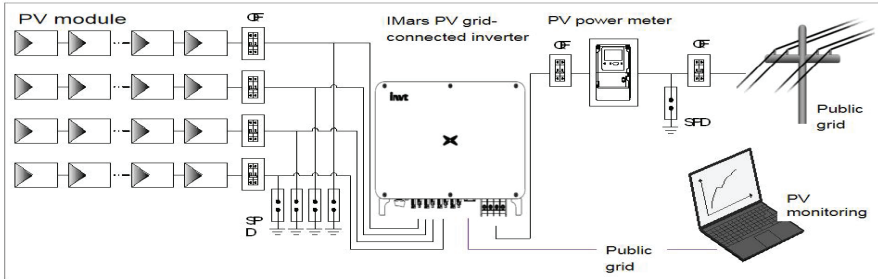



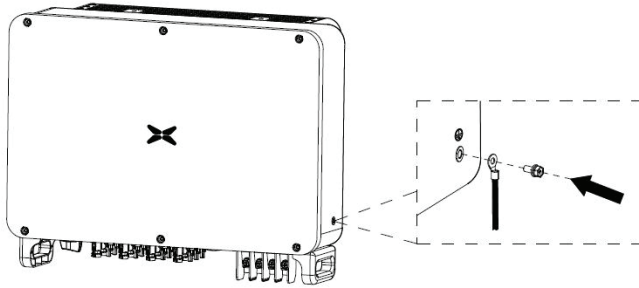
Fig 5.1 Schematic diagram of PV grid-connected system connection

| | |
|---|---|
|  | <ul style="list-style-type: none"> ● Electrical connections must be completed by professional worker. Wrong operation may cause equipment damage during system operation, and even personal injury. ● All electrical installations must comply with national/regional electrical safety regulations. ● Ensure that all cables are installed tightly, without any damage, and meet the specified safety requirements. ● It is not allowed to turn on the AC and DC circuit breakers before the inverter completes the electrical connection and check. |
| <p>Note</p> | <ul style="list-style-type: none"> ● Read this section carefully and operate strictly according to the requirements. ● Pay attention to the rated voltage and current values specified in this manual, and do not exceed the limit values specified in this manual. |

5.2 Connect the protective ground wire

Step 1: Crimp the OT terminal to the ground wire

Step 2: Remove the screw at the grounding position on the side of the chassis, fix the ground wire with the screw and tighten the tightening torque 7-9N•m.



5.3 Connection of photovoltaic string

Step 1: Connect the outlet line of the PV panel to the MC4 terminal delivered by the machine
 The MC4 terminal crimping method is as follows:

(1) As shown in Fig 5.2, connect the output wire of the PV string to the DC connector of the inverter. Loosen the fastening nut of the connector; strip off the 15mm insulation layer of the DC cable, and use crimping pliers to press the standard metal terminal tightly. The tightening torque of the waterproof part of the tail is 2.5-3Nm. The wiring method of the positive and negative connectors is the same. Confirm that the positive and negative poles of the PV string correspond correctly to the positive and negative connectors, then connect them firmly;

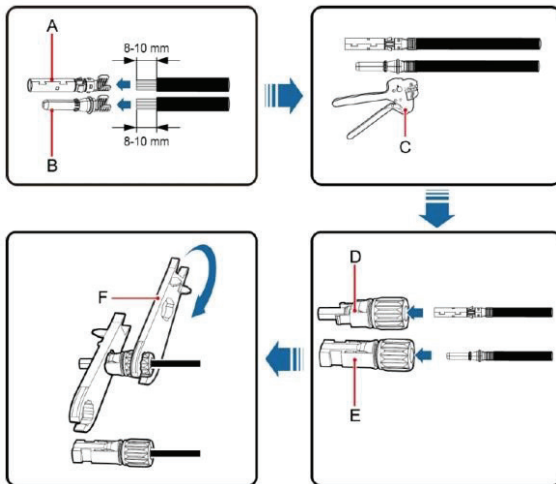


Fig 5.2 Connection between MC4 DC connector and PV string

(2) After the DC connector is connected, use a multi-meter to measure the voltage of the DC input string, verify the polarity of the DC input cable, and ensure that the voltage of each string is within the allowable range of the inverter, as shown in Fig 5.3.

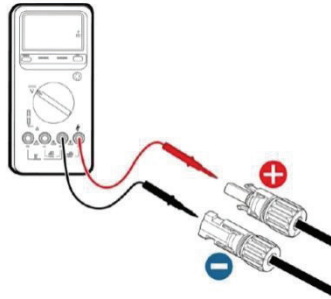


Fig 5.3 Measuring DC input voltage

| | |
|--|---|
| | <ul style="list-style-type: none">● The PV string connected to iMars series inverter must adopt the DC connector configured especially for the inverter, do not use other connection devices without authorization from our company, otherwise damage to the device, unstable operation or fire may occur and our company will not undertake quality assurance or assume any direct or joint liability thereof. |
|--|---|

Step 2: After the DC terminal is connected, it is directly connected to the MC4 terminal of the machine.

(1) Connect the positive and negative connectors of the PV strings that have been connected to the corresponding positions of the inverter DC interface, and confirm the tight connection, as shown in Fig 5.4;

(2) When disassembling the DC connector from the inverter, insert the tip of a slotted screwdriver into the raised hole in the middle of the connector, and force the movable end of the connector to withdraw.

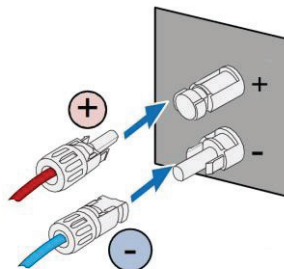



Fig 5.4 PV DC string connected to the inverter

5.4 Three-phase inverter grid access

Table 5-1 Three-phase photovoltaic inverter AC connector interface description

| Inverter AC connector interface | Three-phase grid | Remarks |
|---|--|--|
| L1 | L1 (A) | No phase sequence |
| L2 | L2 (B) | No phase sequence |
| L3 | L3 (C) | No phase sequence |
| N | N(Neutral line) | Support N-wire and non-N-wire connection |
|  | PE ground wire (grounding point on the outside of the chassis) | Must be connected |

5.4.1 Connection terminal grid access

(1) Connect the four wires of the three-phase public power grid L1, L2, L3 and N to the AC connector interface according to Table 5-1, and connect the grounding wire to the grounding point on the outside of the chassis, and ensure that the conductors are crimped firmly without exposure , As shown in Fig 5.6;

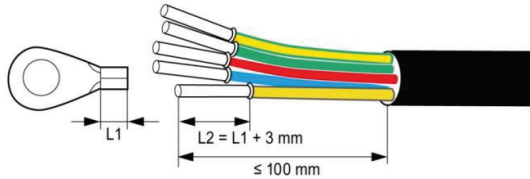


Fig 5.6 Crimp cable terminal

(2) Then tighten the L1, L2, L3, N, crimped terminals according to Fig 5.7 to a torque of 7-9N•m, and the PE grounding torque of the outer side of the chassis to a torque of 7-9N•m; then tighten the AC Tighten the waterproof cap.

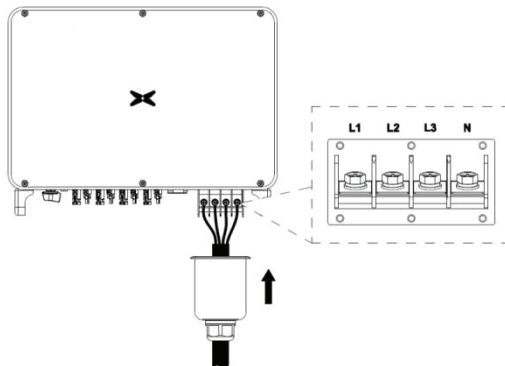
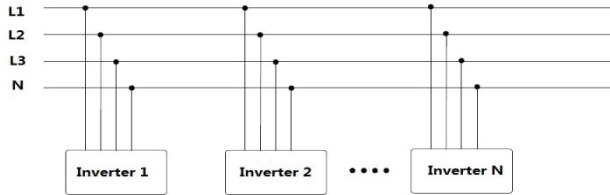


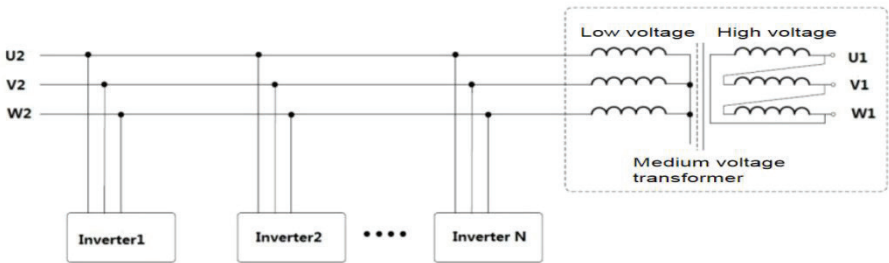
Fig 5.7 Three-phase inverter grid connection

5.4.2 Parallel requirements for multiple inverters

Use multiple inverters to directly connect to the low-voltage three-phase grid solution. If the total capacity of the inverters is greater than 1MVA, please contact our after-sales service personnel.



Use multiple inverters to connect the low-voltage side of the medium-voltage transformer, and the high-voltage side directly connects to the medium-voltage grid. If the total capacity of the inverter is greater than 1MVA, please contact our service personnel. At the same time, the transformer must meet the total output of the inverter. Power requirements, and there is a neutral point or an external neutral conductor.



- It is recommended to use a transformer with short-circuit impedance $\leq 7\%$

5.4.3 Grid voltage requirements

Before installing the PV inverter, you need to confirm the working voltage of the AC side of the product. There are two rated voltages of 400Vac and 480Vac;



- For 400Vac systems, the AC side of the inverter can be directly connected to the domestic three-phase power grid;
- For the 480Vac system, the inverter needs to be connected to the three-phase grid through a transformer, the transformer ratio is 480V/400V, and the capacity refers to the actual inverter power.

6 Running

This chapter introduces the related operations during the use of the inverter, which mainly involves pre-operation inspections, grid-connected operation of the inverter, inverter shutdown, and precautions for daily maintenance and repair of the inverter.

6.1 Inspection before running

The following items must be checked strictly before running the PV grid-connected inverter (including but not limited to the following items):

- (1) Confirm the installation site of the inverter meet requirements of section 4.2.2 to ensure convenient installation, disassemble, operation and inspection on the inverter;
- (2) Confirm the mechanical installation of the inverter meet requirements of section 5.3;
- (3) Confirm the electrical connection of the inverter meet the requirements of section 4.4;
- (4) Confirm all the switches are in "OFF" state;
- (5) Confirm the open-circuit voltage of PV module conforms to the parameter requirements of inverter DC side in appendix;
- (6) Confirm the electrical safety marks on the installation site is clear enough.



- In order to ensure a safe, normal and stable operation of the PV power generation system, all the newly installed, renovated and repaired PV grid-connected power generation system and its grid-connected inverter must undergo inspection before running.

6.2 Inverter grid-connected running

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

Note

- For the first operation of the inverter, a country must be selected to set grid-connected standards.
- Please keep the inverter powered on for at least 30 minutes, and complete the charging of the built-in clock battery of the inverter to ensure the normal operation of the clock!

- (1) Make sure that the inspection items in Section 6.1 meet the requirements;
- (2) Turn on the AC side circuit breaker of the inverter public grid;
- (3) Turn on the DC switch integrated in the inverter;
- (4) Turn on the switch on the DC input side of the photovoltaic string;
- (5) Observe the status of the inverter's LED lights or the information displayed on the LCD screen (refer to section 2.6 for LED status lights and LCD display information);
- (6) Wait for the inverter to connect to the grid successfully.

6.3 Inverter stop

When it is necessary to perform power failure maintenance, overhaul, and troubleshooting of the inverter, please strictly follows the steps below to shut down the inverter:

- (1) Disconnect the AC side circuit breaker of the inverter public grid;
- (2) Disconnect the DC switch integrated in the inverter;
- (3) Disconnect the line switch on the DC input side of the photovoltaic string;
- (4) Wait at least 3 minutes until the internal components of the inverter are discharged, and the

inverter shutdown operation is completed.

6.4 Daily maintenance and inspection

In the PV grid-connected system, even if the day and night change and the season changes, the PV grid-connected inverter can automatically complete grid-connected power generation, shutdown and start-up operations without human control. In order to ensure and prolong the service life of the inverter, in addition to using the inverter in strict accordance with the content specified in this manual, it is also necessary to carry out the necessary daily maintenance and inspection of the inverter.

6.4.1 Periodic maintenance on the inverter

| Check Item | Inspection Method | Maintenance Cycle |
|------------------------------|---|----------------------|
| Save inverter operating data | The monitoring software is used to read the data of the inverter in real time, and the data recorded by the monitoring software is regularly backed up. Save the inverter's operating data, parameters and logs recorded in the monitoring software to a file. Check the monitoring software and check the inverter parameter settings through the handheld keyboard. | Once per quarter |
| Inverter running status | Observe whether the inverter is installed firmly and whether it is damaged or deformed. To listen whether there's any abnormal sound during inverter running. When the system is connected to the grid, check various variables. Check whether the heating of the inverter shell is normal, and use a thermal imager to monitor the heating of the system. | Once per half a year |
| Clean the inverter | Check the RH and dust around the inverter, and clean the inverter when necessary. Refer to section 6.4.2. | Once per half a year |

| Check Item | Inspection Method | Maintenance Cycle |
|---|--|----------------------|
| Electrical connections | Check whether the system cable connection is loose, whether the inverter wiring terminal is loose, and then tighten it according to the method specified in section 4. Check whether the cable is damaged, especially whether the rubber skin in contact with the metal surface has cut marks. | Once per half a year |
| Cooling fan maintenance and replacement | For three-phase inverter products, observe whether the air inlet and outlet are normal, and check whether there are cracks in the fan blades. Listen for abnormal vibration when the fan is running. If necessary, clean the air inlet and outlet; if the fan is abnormal, it needs to be replaced in time, see section 6.4.2. | Once per half a year |
| Security function | Check the inverter LCD and the shutdown function of the system. Simulate stop and check the stop signal communication. Check the warning labels and replace them if necessary. | Once per half a year |


6.4.2 Maintenance guidance

Inverter cleaning

The cleaning steps are as follows:

- (1) Disconnect the input and output connections.
- (2) Wait ten minutes.
- (3) Use a soft brush or vacuum cleaner to clean the surface of the inverter and the air inlet and outlet.
- (4) Repeat the operation content in section 6.1.
- (5) Restart the inverter.

Fan maintenance

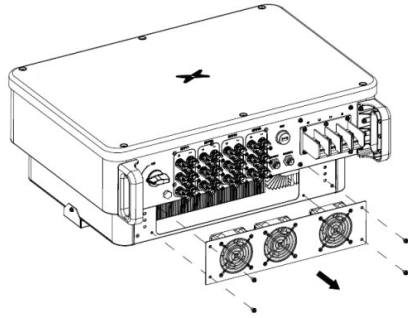
| | |
|---|--|
|  | <ul style="list-style-type: none"> ● Stop the inverter before maintenance work, and all power inputs of the inverter must be disconnected. ● Wait at least 3 minutes for the capacitors inside the inverter to fully discharge before starting maintenance work. ● Only professional electricians can perform maintenance and replacement of the fan. |
|---|--|

Step 1: Stop the inverter and disconnect the electrical connection.

- (1) Disconnect the input and output connections.

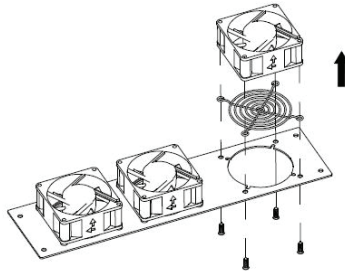
- (2) Turn the DC switch to the "OFF" position.
- (3) Wait ten minutes.
- (4) Disconnect all electrical connections at the bottom of the inverter.

Step 2: Disconnect the fan power plug and remove the fan cover at the bottom of the chassis.



Step 3: Use a soft brush or vacuum cleaner to clean the fan. If the fan is damaged, follow step 4.

Step 4: If the fan is damaged, remove the damaged fan and install the good fan to its original position.



Step 5: Re-install the fan tray to the inverter in the reverse order and restart the inverter. .

Note

- Once the inverter stops due to an alarm, it is prohibited to start the inverter immediately. You should find out the cause and confirm that all faults have been eliminated before starting the inverter. The inspection should be carried out strictly in accordance with the steps in section 6.1.

7 Troubleshooting

This chapter introduces fault alarms and codes, which are used to quickly find inverter faults.

Table 7-1 Inverter fault codes

| Number | Fault types | Fault main code | Fault subcode | Fault information | Display information |
|--------|----------------------------|-----------------|---------------|------------------------------------|---------------------|
| 1 | PV voltage fault | 01 | 01 | PV electricity down | 01-01 |
| | | | 02 | PV voltage high | 01-02 |
| 2 | BUS voltage error | 03 | 01 | Low voltage BUS | 03-01 |
| | | | 02 | BUS voltage high | 03-02 |
| | | | 03 | BUS voltage imbalance | 03-03 |
| 3 | Flow failures | 05 | 01 | Inverter hardware flow | 05-01 |
| | | | 02 | Inverter software flow | 05-02 |
| | | | 03 | The BOOST hardware flow | 05-03 |
| | | | 04 | The BOOST software flow | 05-04 |
| 4 | Thermal failure | 06 | 01 | The inverter temperature thermal | 06-01 |
| | | | 02 | The BOOST thermal | 06-02 |
| | | | 03 | The radiator thermal | 06-03 |
| | | | 04 | The environmental thermal | 06-04 |
| 5 | Insulation detection fault | 07 | 01 | Insulation detection fault | 07-01 |
| 6 | Drive failure | 08 | 01 | Drive failure | 08-01 |
| 7 | Communication failure | 09 | 01 | DSP1 and ARM SCI failure | 09-01 |
| | | | 02 | DSP2 with ARM SCI failure | 09-02 |
| | | | 03 | DSP1 SPI fault | 09-03 |
| | | | 04 | DSP2 SPI fault | 09-04 |
| | | | 05 | SCI failure DSP1 and MCU | 09-05 |
| 8 | Leakage current fault | 10 | 01 | The static leakage current is high | 10-01 |

| Number | Fault types | Fault main code | Fault subcode | Fault information | Display information |
|--------|--|-----------------|---------------|---------------------------------------|---------------------|
| | | | 02 | 30 ma mutation of failure | 10-02 |
| | | | 03 | 60 ma mutation of failure | 10-03 |
| | | | 04 | 150 ma mutation of failure | 10-04 |
| 9 | Relay failure | 11 | 01 | Relay open | 11-01 |
| | | | 02 | Relay short circuit | 11-02 |
| 10 | DCI fault | 14 | 01 | DCI R phase failure | 14-01 |
| | | | 02 | DCI S phase failure | 14-02 |
| | | | 03 | T the DCI fault | 14-03 |
| 11 | Consistency of failure | 19 | 01 | AC voltage test | 19-01 |
| | | | 02 | BUS voltage detecting inconsistencies | 19-02 |
| | | | 03 | ISO voltage detecting inconsistencies | 19-03 |
| | | | 04 | PV voltage detecting inconsistencies | 19-04 |
| | | | 05 | GFCI inconsistent | 19-05 |
| 12 | Mains voltage fault | 31 | 01 | Low mains voltage | 31-01 |
| | | | 02 | Mains voltage high | 31-02 |
| 13 | Mains frequency fault | 33 | 01 | Mains frequency is low | 33-01 |
| | | | 02 | Mains frequency is high | 33-02 |
| 14 | Remote shutdown | 37 | 01 | Remote shutdown instructions | 37-01 |
| 15 | Leakage current self-checking of failure | 43 | 01 | Leakage current sensor fault | 43-01 |
| 16 | Auxiliary power failure | 45 | 01 | Auxiliary power off | 45-01 |

Table 8-2 Inverter alarm codes

| Number | Alarm types | Alarm master code | alarm subcode | alarm information | Display information |
|--------|---------------------|-------------------|---------------|---------------------|---------------------|
| 1 | Fan speed is low | 01 | 01 | Fan1 | 01-01 |
| | | | 02 | Fan2 | 01-02 |
| | | | 03 | Fan3 | 01-03 |
| | | | 04 | Fan4 | 01-04 |
| 2 | Lightning protector | 02 | 01 | Lightning protector | 02-01 |
| 3 | String current | 03 | 01 | String 1 | 03-01 |
| | | | 02 | String 2 | 03-02 |
| | | | 03 | String 3 | 03-03 |
| | | | 04 | String 4 | 03-04 |
| | | | 05 | String 5 | 03-05 |
| | | | 06 | String 6 | 03-06 |
| | | | 07 | String 7 | 03-07 |
| | | | 08 | String 8 | 03-08 |

If any problem, please contact with the supplier and provide following information:

- Model of the inverter: _____;
- Serial No. of the inverter: _____;
- System version:
 - version 1: _____;
 - version 2: _____;
 - MCU software version: _____;
- Fault code: _____;
- Fault description _____

8 Contact information

IN CASE OF ANY QUERY/ISSUE WITH THE PRODUCT
FOR MORE PRODUCTS RANGE
INQUIRY PLEASE CONTACT OUR DISTRIBUTOR OR NEAREST DEALERS.

V-TAC EUROPE LTD.

BULGARIA, PLOVDIV 4000

BUL.L.KARAVELOW 9B

support@v-tac.eu

9 Appendix

Table 9-1 Technical parameters of three-phase PV grid-connected inverter

| Model | | VT-6607150 | VT-61060 |
|---------------------|--|--|-------------|
| DC side | Maximum input power | 80000W | 96000W |
| | Maximum DC voltage (V) | 1100 | 1100 |
| | Starting voltage (V) | 180 | 180 |
| | MPPT voltage range (V) | 200-1000 | 200-1000 |
| | Full load MPPT voltage range (V) | 520-850 | 520-850 |
| | Number of MPPT channels | 4 | 4 |
| | Maximum number of strings per MPPT | 3/2/3/2 | 3/3/3/3 |
| | Maximum input current per MPPT (A) | 39/26/39/26 | 39/39/39/39 |
| | Maximum short-circuit current of each MPPT (A) | 48/32/48/32 | 48/48/48/48 |
| AC side | Rated output power (W) | 50000 | 60000 |
| | Rated output voltage (Vac) | 230/400 | 230V/400 |
| | Rated output voltage frequency (Hz) | 50/60 | 50/60 |
| | Maximum output current (A) | 79.7 | 95.6 |
| | Short circuit current (A) | 150 | 160 |
| | Output voltage frequency range (Hz) | 45~55/55~65 | |
| | Power factor | -0.8~+0.8 (adjustable) | |
| | Harmonic distortion | <3% (rated power) | |
| System | cooling method | Air-cooled | |
| | Maximum efficiency | 98.70% | |
| | European efficiency | 98.60% | |
| | MPPT efficiency | 99.90% | |
| | Protection level | IP66 | |
| | Power consumption at night | <1W | |
| | Security Level | I | |
| | Overvoltage protection level | AC: III, PV: II | |
| | Inverter topology | non-isolated | |
| | Pollution level | 3 | |
| | Operating environment temperature | -30℃~+60℃ (automatic derating after exceeding 45℃) | |
| | Relative humidity | 0~100% | |
| | Maximum allowable altitude (m) | ≤2000, derating is required after more than 2000m | |
| | show | LED/LCD (optional) | |
| | System language | English, Chinese, German, Dutch | |
| | communication method | RS485 (standard); Ethernet, WiFi (optional) | |
| | DC terminal | MC4 DC waterproof terminal | |
| Noise dB(A) | ≤55 | | |
| Installation method | Wall-mounted | | |
| Protection function | Input overvoltage protection, input overcurrent protection, DC insulation monitoring, DC monitoring, ground fault current monitoring, grid monitoring, islanding protection, short circuit protection and overheating protection, etc. | | |

INSTRUCTION MANUAL WIFI MODULE FOR SOLAR INVERTER



INTRODUCTION

Thank you for selecting and buying V-TAC Product. V-TAC will serve you the best. Please read these instructions carefully & keep this user manual handy for future reference. If you have any another query, please contact our dealer or local vendor from whom you have purchased the product. They are trained and ready to serve you at the best.



User Manual QR CODE

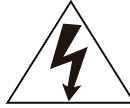
Please scan the QR code to access the manual in multiple languages.

WARNING

1. Please make sure to turn off the power before starting the installation.
2. Installation must be performed by a qualified electrician.



This marking indicates that this product should not be disposed of with other household wastes.



Caution, risk of electric shock.



NOTICE:

Please read this manual carefully before using products and keep it in the place where O&M providers can easily find.

Due to product upgrade and other factors, the content of this manual might change from time to time. Please take actual product as standard and get latest manual from www.vtacexports.com or sales. Unless otherwise agreed herein, this manual will only be used as guidance. Any statement, information or suggestion in this manual will not take any form of responsibility.

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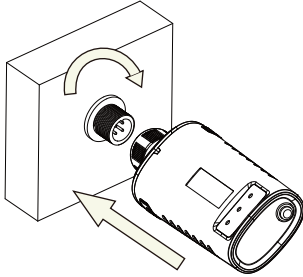
SOLARMAN Business
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Management Software

IOS: Search "Solarman Smart" or "Solarman Business" in Apple Store.
Android: Search "Solarman Smart" or "Solarman Business" in Google Play.

1. WIFI MODULE INSTALLATION

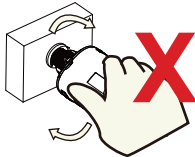
Type 1

Step1: Assemble WIFI Module to the inverter communication interface as shown in the diagram.






Warning:

Please do not hold the WIFI Module body to rotate while install or remove the Module.



2. WIFI MODULE STATUS

Check Indicator light

| Lights | Implication | Status Description(All lights are single green lights.) |
|---|-----------------------------|---|
|  | Communication with router | 1.Light off: Connection to the router failed. 2.On 1s/Off 1s(Slow flash): Connection to the router succeeded. 3.Light keeps on: Connection to the server succeeded. 4.On 100ms/Off 100ms(Fast flash): Distributing network fast. |
|  | Communication with inverter | 1.Light keeps on: WIFI Module connected to the inverter. 2.Light off: Connection to the inverter failed. 3.On 1s/Off 1s(Slow flash): Communicating with inverter. |
|  | WIFI Module running status | 1.Light off: Running abnormally. 2.On 1s/Off 1s (Slow flash): Running normally. 3.On 100ms/Off 100ms(Fast flash): Restore factory settings. |



The normal operation status of the WIFI Module, when router connected to the network normally:

- 1.Connection to the server succeeded: NET light keeps on after the WIFI Module powered on.
- 2.WIFI Module running normally: READY light flashes.
- 3.Connection to the inverter succeeded: COM light keeps on.

ABNORMAL STATE PROCESSING

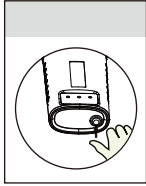
If the data on platform is abnormal when the WIFI Module is running, please check the table below and according to the status of indicator lights to complete a simple troubleshooting. If it still can not be resolved or indicator lights status do not show in the table below, please contact Customer Support.

(Note: Please using the following table query after power-on for 2mins at least.)

| NET  NET | COM  COM | READY  READY | Fault Description | Fault Cause | Solution |
|---|---|---|---|--|---|
| Any state | OFF | Slow flash | Communication with inverter abnormal | 1.Connection between WIFI Module and inverter loosen. 2.Inverter does not match with WIFI Module's communication rate. | 1.Check the connection between WIFI Module and inverter. Remove the WIFI Module and install again. 2.Check inverter's communication rate to see if it matches with WIFI Module's. 3.Long press Reset button for 5s, reboot WIFI Module. |
| OFF | ON | Slow flash | Connection between logger and router abnormal | 1.WIFI Module does not have a network. 2.Antenna abnormal 3.Router WiFi signal strength weak. | 1.Check if the wireless network configured. 2.Check the antenna, if there is any damage or loose. 3.Enhance router WiFi signal strength. 4.Long press Reset button for 10s, reboot WIFI Module and networking again. |
| Slow flash | ON | Slow flash | Connection between WIFI Module and router normal, connection between logger and remote server abnormal. | 1.Router networking abnormal. 2.The server point WIFI of Module is modified. 3.Network limitation, server cannot be connected. | 1.Check if the router has access to the network. 2.Check the router's setting, if the connection is limited. 3.Contact our customer service. |
| OFF | OFF | OFF | Power supply abnormal | 1.Connection between WIFI Module & inverter loosen or abnormal. 2.Inverter power - insufficient. 3.WIFI Module - abnormal. | 1.Check the connection, remove the WIFI Module and install again. 2.Check inverter output power. 3.Contact our customer service. |
| Fast flash | Any state | Any state | SMARTLINK networking status | Normal | 1.Exit automatically after 5mins. 2.Long press Reset button for 5s, reboot WIFI Module. 3.Long press Reset button for 10s, restore factory settings. |
| Any state | Any state | Fast flash | Restore factory settings | Normal | 1.Exit automatically after 1mins. 2.Long press Reset button for 5s, reboot WIFI Module. 3.Long press Reset button for 10s, restore factory settings. |


USAGE METHODS AND NOTICES FOR RESET BUTTON

Usage methods and key-press descriptions for Reset button




| Key-press | Status Description | Light Status |
|----------------|------------------------------------|--|
| Short press 1s | SMARTLINK rapid networking status. | NET light flashes fast for 100ms. |
| Long press 5s | Rebooting the WIFI Module. | All lights are extinguished immediately. |
| Long press 10s | Resetting theWIFI Module. | 1.All lights are extinguished after 4s. 2.READY light flashes fast for 100ms. |

NOTICES FOR RESET BUTTON

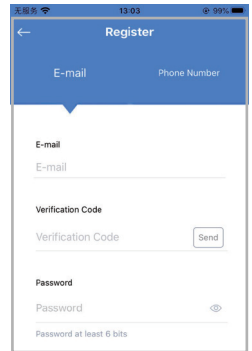
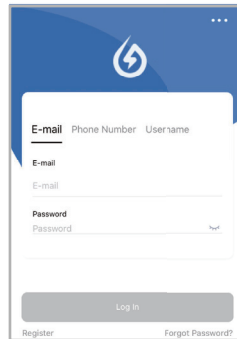


Notice:
Do not remove waterproof plug.

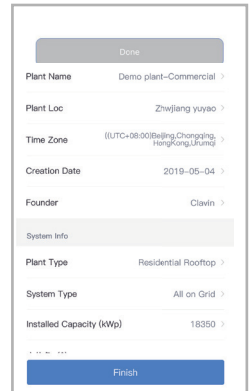
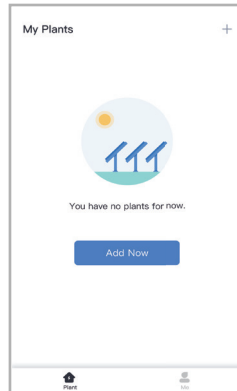


USER MANUAL FOR SOLARMAN SMART APP

1.Registration
Go to Solarman Smart App and register.
Click "Register" and create your account here.



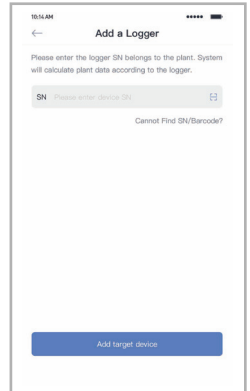
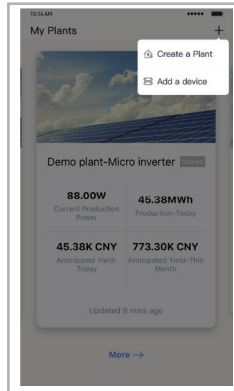
2.Create a Plant
Click "Add Now" to create your plant.
Please fill in plant basic info and other info here.



3.Add a Logger

Method 1: Enter logger SN manually.

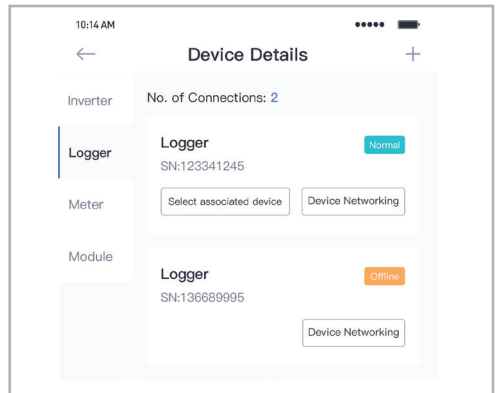
Method 2: Click the icon in the right and scan to enter logger SN
You can find logger SN in the external packaging or on the logger body.



4.Network Configuration

After the logger is added, please configure the network to ensure normal operation.

Go to "Plant Details"->"Device List", find the target SN and click "Networking".

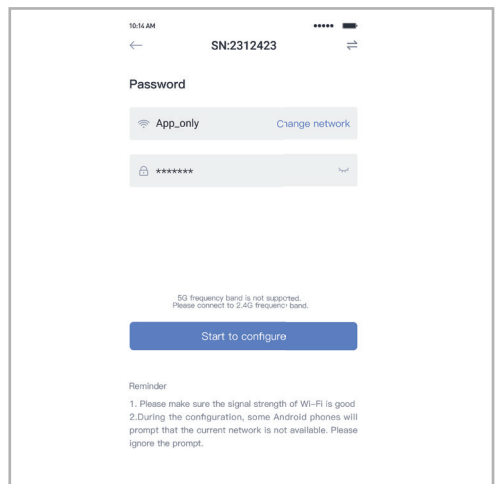


Step 1: Confirm Wi-Fi Info

Please make sure your phone has connected to the right WiFi network. And click "Start".

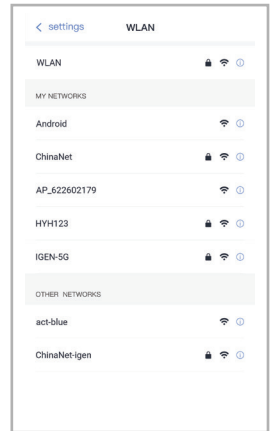
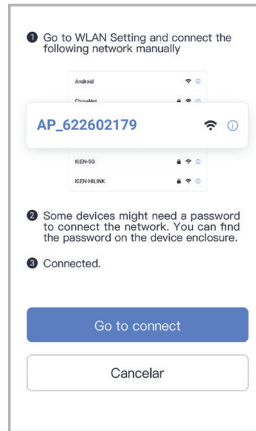
Notice:

5G WiFi is not supported .



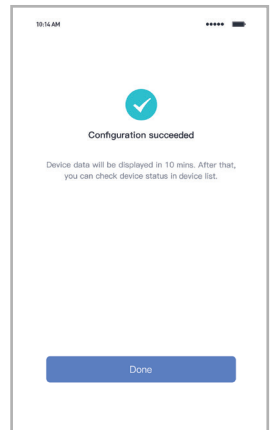
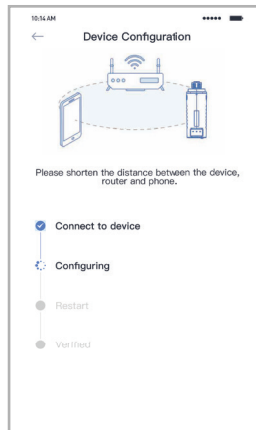
Step 2: Connect to AP network
Click "Go to connect" and find the right "AP_XXXXX" network (XXXXXX Refers to logger SN).

If the password is required, you can find the password on the logger body. Go back to Solarman Smart App, after connecting to AP network.



Step 3: Auto Configuration
Please wait for a while to complete the configuration. Then system will switch to the following page.

Click "Done" to check plant data. (Usually, the data will be updated in 10 mins)



If configuration failure occurs, please check the following reason and try it again.

- (1) Make sure WLAN is ON.
- (2) Make sure WiFi is normal.
- (3) Make sure wireless router does not implement the white-black list.
- (4) Remove the special characters in Wi-Fi network.
- (5) Shorten the distance between the phone and device.
- (6) Try to connect to other Wi-Fi.

Warning:

Please make sure the WIFI Module is working properly before you leave the site. If there is anything abnormal, please do not leave the site and contact customer service: support@v-tac.eu.