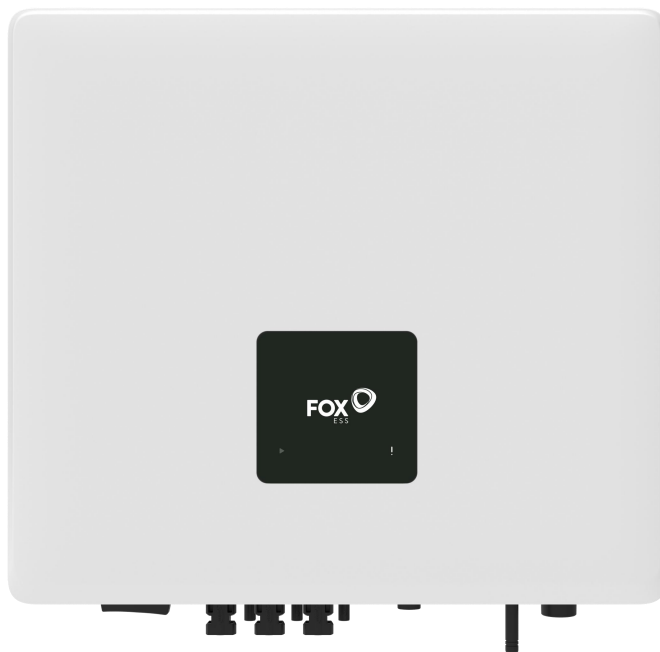


User Manual



G Series Single-phase Inverter

G7-VB

G7.5-VB

G8-VB

G9-VB

G9.9-VB

G10-VB

G10.5-VB

To prevent damage to the product caused by improper use, please carefully read this manual before operation.

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1 Notes on this Manual

G series inverters are designed and tested in accordance with international safety requirements. Certain safety precautions must be taken when installing and operating this inverter. The installer must read and follow all instructions, cautions and warnings in this installation manual.

1.1 Scope of Validity

This manual describes the assembly, installation, commissioning, maintenance and troubleshooting of the following model(s) of products:

G7-VB, G7.5-VB, G8-VB, G9-VB

G9.9-VB, G10-VB, G10.5-VB

Please keep this manual where it will be accessible at all times.

1.2 Target Group

This manual is intended for use by qualified electricians only. All procedures described herein shall be performed by trained and experienced electrical personnel in compliance with basic electrical safety requirements.

1.3 Symbols Used

The following symbols are used in the manual to highlight information in order to ensure the safety of the user's person and property when using the product, and to use the product more efficiently and optimally. The following symbols may appear in this manual, and the meanings they represent are listed below:

Danger!

"Danger" indicates a hazardous situation which, if not avoided, will result in death or serious injury.

Warning!

"Warning" indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Note!

"Note" provides important tips and guidance.

Symbols	Explanation
	CE mark. The product complies with the relevant EU directives.
	RCM mark.
	RoHS mark.
	Beware of hot surface. The inverter can become hot during operation. Avoid contact during operation.
	Danger of high voltages. Danger to life due to high voltages in the inverter!
	Hazards, warnings and cautions. Important safety information regarding personal safety. Failure to follow the safety information in this manual could result in injury or even death.
	Capacitor discharge. Before opening the cover, the inverter must be disconnected from the grid and the PV string. Wait at least 5 minutes for the storage capacitors to discharge completely.
	Read the manual before performing any operations on the inverter.
	Product should not be disposed as household waste.
	PE conductor terminal.

2 Safety Precautions

2.1 Personnel Safety

Danger!

Operating Requirements

- High voltage exists inside the equipment. Unauthorized removal of necessary protective measures, improper use, and improper installation and operation may cause serious safety hazards, shock hazards, or equipment damage, and the resulting damage to the equipment is not covered by the warranty.
- Do not energize the equipment without completing the installation or without professional confirmation, and strictly prohibit operation with electricity.

Warning!

Operating Requirements

- Always use special insulated tools for wiring operations. Direct contact or contact with other conductors or indirect contact with the power supply equipment through wet objects is prohibited.
- During operation of the equipment, the enclosure temperature is high and there is a risk of burns. Before touching any part of the inverter, make sure that the equipment and its surfaces are at a contact-safe temperature and voltage before proceeding.

Note!

Personnel requirements

- All operations, including transportation, installation, start-up and maintenance, must be performed by qualified and trained personnel.
- Before operating the equipment, be sure to check that it is in proper condition, including, but not limited to, the equipment's parts, safety devices, and meter display.
- If any abnormality is found during operation, do not use the inverter and avoid temporary maintenance of the inverter.
- Special scenario operators, such as electrical operation, high place operation, equipment maintenance operation, etc., must have special operation qualification that meets the requirements of the local country/region, and should comply with local standards and relevant safety codes.
- Strictly follow the safety operation procedures, understand the potential dangers in equipment operation, and take precautions to maximize the safety of themselves and related personnel to prevent accidents caused by improper operation.
- Operators are required to wear appropriate personal protective equipment, including protective clothing, gloves, goggles, and helmets.
- It is strictly prohibited to operate under fatigue, drunkenness, or ill health.
- Take extra care when the inverter is disconnected from the public grid, as certain components may hold a certain voltage, creating a risk of electric shock.
- Before installation, check the machine to make sure that it does not have any damage caused by transportation or handling processes that could affect the insulation or safety distances. Choose the installation location carefully and observe

the specified cooling requirements.

- Before connecting the inverter to the distribution grid, contact the local distribution grid company for approval. This connection must be carried out by a qualified technician.
- Do not use the equipment when the safety devices do not work or are disabled.
- The manufacturer needs to be notified of any non-standard installation conditions.
- All repairs should be carried out only with approved spare parts, which must be installed in accordance with their purpose and by an authorized contractor or an authorized service representative.

2.2 Electrical Connection Safety

Danger!

Operating Requirements

- Remove all electrical connections from the unit before making electrical connections.
- Before making electrical connections, it is important to verify that the equipment itself and its front and rear switches are disconnected and that reliable locking and marking measures are in place to prevent accidental energization.

Wiring Requirements

- No loads may be connected between the inverter and its directly connected AC circuit breaker.
- Use test equipment to ensure that the PV strings have the correct positive and negative terminals.
- The entire grounding system should remain intact, including the grounding electrode, grounding trunk, branch wires, and connections to the equipment.

Grounding Requirements

- The protective earth conductor needs to remain grounded during installation and when removing the equipment.

Maintenance Requirements

- High voltage exists inside the unit, do not open the unit's mainframe panel.
- Disconnect the corresponding output switch of the power supply unit before performing maintenance on the power supply unit's back-end electricity or power distribution equipment.

Warning!

Wiring Requirements

- In electrical installations, it is important to follow the relevant codes and standards and to use circuit breakers of appropriate specifications to protect the safety of the circuit.

Grounding Requirements

- The grounding resistance should be in accordance with relevant standards and regulations to ensure effective current discharge. Normally, the value of grounding resistance should be small enough to ensure that the current can be quickly directed to earth in the event of a fault.

Maintenance Requirements

- Always use measuring equipment to ensure that the equipment is at contact-safe temperatures and voltages before touching any parts, and wear protective equipment for operation and maintenance of the inverter.

Note!

Wiring Requirements

- Wires should be secured and supported at appropriate locations to prevent dislodgement or damage due to self-weight or external forces.

Inspection before connection

- Check the appearance and structure of the equipment for damage, whether the equipment received and the actual equipment ordered are the same, and contact Fox ESS in case of doubt, connecting damaged equipment can cause the risk of fire and electric shock.

Wiring Requirements

- Cable slots and crossing holes should have no sharp edges and the location of the pipe or crossing holes should be protected to prevent damage to the cables.

- Strictly follow national and industry standards and codes for electrical wiring for construction and installation.
- Verify that tools and test equipment used are functioning properly, calibrated effectively, and meet safety standards, and check and register the number of tools to prevent them from being left inside the equipment.
- Check that markings and labels on wires, terminals and equipment are clear and accurate.
- Check that connecting terminals are well insulated and protected, free from corrosion, deformation or looseness.
- Incorrect wiring operations can cause accidents such as fire or electric shock, and the resulting damage will not be covered by the warranty.
- Wiring should be clearly labeled to facilitate maintenance and troubleshooting.
- Wiring personnel need to wear appropriate personal protective equipment and use professional insulated tools for operation .
- The grounding system should be tested regularly to check the grounding resistance, connection status, etc. Before operating the equipment, ensure that the equipment is reliably grounded, and find and repair any damage or abnormality in time.
- Cabling should be kept at a safe distance of at least 30mm from high temperature heat sources to prevent aging of the insulation.
- Cables should not block the air inlet and outlet of the equipment.
- After the connection is completed, it should be ensured that the insulation of the wires is restored intact and the exposed conductor parts are effectively insulated.
- The grounded portion should be clearly labeled to alert personnel.
- The grounding connection must be firm and reliable to avoid loose, corrosion, or poor contact. The connection shall be properly treated against corrosion.
- Wiring should be laid neatly and in an orderly manner, avoiding crossings, tangles and excessive bending to minimize the risk of damage to the wires. Select power cords of sufficient length and strictly prohibit making joints or soldering points in power cords.

- The insulation of wires and cables should be intact and have good insulation properties to effectively prevent leakage and short circuit.
- The same kind of cables are tied neatly without outer skin damage, and different kinds of cables are laid out separately, forbidding twisting and crossing.
- Regularly check the system parameters and make records, if anomalies are found, the causes should be identified and dealt with accordingly. If you can not determine the cause of the anomaly, you need to turn to professionals to avoid accidents affecting the use of the system.
- Non-professionals are not allowed to disassemble and overhaul the inverter without authorization, and the operators need to be specially trained.
- Strictly follow the use and maintenance instructions of the product to operate, make sure the warning signs are intact, and replace the signs that become unclear due to long-term use in time.
- Regularly check whether the wiring and connecting terminals of each part of the equipment are firm and whether there is any looseness; especially pay attention to the fan, power module, input terminals, output terminals, grounding, and other parts.
- Place eye-catching warning signs or set up safety warning belts around the products; non-staff are not allowed to enter to avoid mishandling or accidents after unrelated personnel approach the products.
- Hang a "Danger - Do Not Close" tag on the upstream and downstream switches or circuit breakers, and post warning signs to prevent accidental connection.

2.3 Installation Requirements

Danger!

Equipment Protection

- Strictly follow the operation manual and specifications of the equipment to carry out maintenance operations, do not carry out other maintenance operations beyond this manual without authorization to avoid equipment failure due to incorrect operation.
- Prohibit arc welding, drilling, cutting and other operations on the equipment, and prohibit the installation of other equipment on the top of the product.

Drilling Safety

- Avoid pre-buried pipes or lines when drilling to avoid short circuits or other hazards.
- The entire grounding system should be kept intact, including the grounding electrode, grounding trunk, branch lines, and connections to the equipment.
- In electrical installations, it is important to follow the relevant codes and standards and to use circuit breakers of the right size to protect the safety of the circuits.

Note!

Use of Tools

- All tools must be complete, properly certified, and within their inspection validity period. Before use, ensure that the tools are sturdy and free from damage, loose parts, or missing components.

Equipment Protection

- Paint scratches, drops or rust stains that occur during transportation and installation of equipment must be repaired in a timely manner, and long-term exposure of the scratched part may affect the use of the inverter.

Drilling Safety

- Appropriate protective equipment such as goggles, earplugs, helmets, and coveralls should be worn when drilling to prevent splashing debris from hurting eyes and face, reduce noise damage to hearing, and protect the body from injury.
 - Cabling should be kept at a safe distance of at least 30 mm from high temperature heat sources to prevent deterioration of the insulation.
 - Cables should not block the air inlet or outlet of the equipment.
-
- Ensure that there is enough space and good lighting, and avoid using tools in dangerous or unstable environments.
 - Use the tool correctly and operate the tool correctly according to the instruction manual or professional guidance on the correct way to use the tool.
 - Perform regular maintenance, such as cleaning, lubrication, and calibration, to extend the service life of the tools and maintain their performance.
 - Before operation, dust, dirt, and debris need to be removed from the surface of the equipment to prevent them from entering the interior of the equipment and causing damage.
 - Update the operating system and related software of the equipment in time to fix the loopholes and improve the performance.
 - Protect the equipment from external collision and strong vibration.
 - Obtain consent from customers and contractors before drilling.
 - Check the drilling equipment before use, including whether the drill is securely installed, whether the wires are broken, and whether the switch is normal.
 - Ensure that the workpiece being drilled is securely fastened to prevent it from moving or rotating during drilling.
 - When replacing drills, cleaning debris or performing equipment maintenance, strictly prevent debris from falling into the interior of the equipment, and be sure to stop the machine first and then clean up the debris in a timely manner.

3 Product Introduction

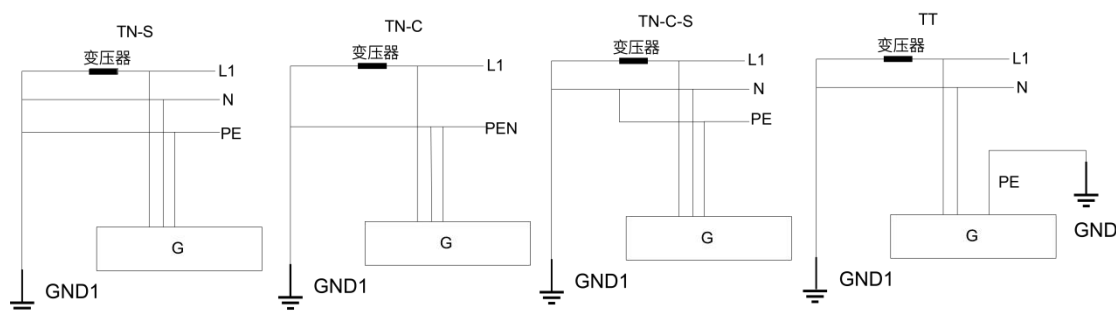
3.1 Basic Features

G series are high-quality inverters which can convert solar energy to AC energy.

Advantages	
	✓ Advanced DSP control technology. ✓ Utilizes the latest high-efficiency power component. ✓ Optimal MPPT technology. ✓ Two independent MPP trackers. ✓ Wide MPPT input range. ✓ Advanced anti-islanding solutions. ✓ IP65 protection level. ✓ Max. Efficiency up to 97.8%. EU efficiency up to 97.4%. THD<3%. ✓ Safety & Reliability: Transformerless design with software and hardware protection. ✓ Export limitation (CT/Meter/DRM0). ✓ Power factor regulation. Friendly HMI. ✓ LED status indications. ✓ Upgrade through USB interface.

Grid Types Supported

The grid types supported by this product are TN-S, TN-C, TN-C-S and TT.

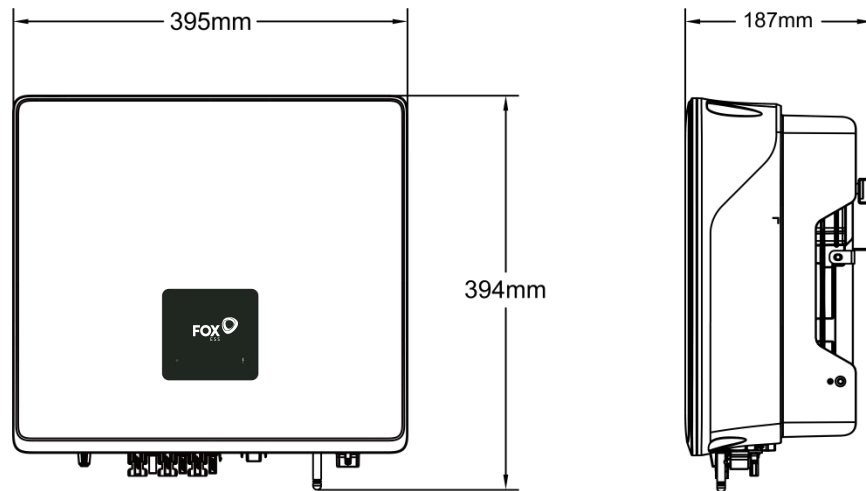


When the inverter is applied to TT grid, N to PE voltage requirement is less than 60V.

3.2 Appearance and Dimensions

Dimensions

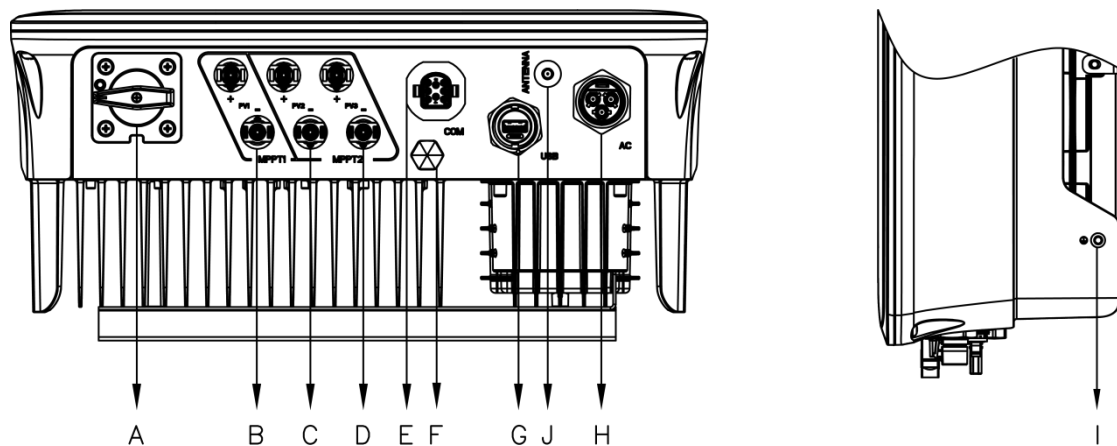
The dimensions of the inverter is shown as below.



Weight

Models	Weight (Kg)
G7-VB/ G7.5-VB/ G8-VB/G9-VB/ G9.9-VB/ G10-VB/ G10.5-VB	≤15.5

3.3 Terminals



No.	Description
A	DC Switch
B	PV1
C	PV2
D	PV3
E	Communication Port
F	Waterproof Lock Valve
G	WiFi/4G/USB Port
H	AC Connector
I	Grounding Screw
J	Antenna

- It is recommended to use the communication module produced by our company, using third party products may cause communication failure or even unknown damage.

4 Technical Data

4.1 PV Input

Models	G7-VB	G7.5-VB	G8-VB	G9-VB	G9.9-VB	G10-VB	G10.5-VB
Max. PV array power [W] ^[1]	14000	15000	16000	18000	19800	20000	21000
Max.DC voltage [V] ^[2]	600						
Nominal DC operating voltage [V]	360						
Max. input current [A] (input A/input B)	20/32						
Max. short circuit current [A] (input A/input B)	26/42						
MPPT voltage range [Vdc]	60-550						
MPPT voltage range @ full load [Vdc]	150-550	160-550	170-550	190-550	210-550	210-550	220-550
Start-up voltage of Operation [V]	80						
No. of MPP trackers	2						
Strings per MPP tracker	1+2						
Max. Inverter backfeed current to the array (mA)	0						

Note: [1] Max operation power for MPPT1 is 6000W.

Max operation power for MPPT2 is 8000W,

[2] The inverter will report an error once the PV voltage is higher than 585V.

4.2 AC Output

Models	G7-VB	G7.5-VB	G8-VB	G9-VB	G9.9-VB	G10-VB	G10.5-VB
Nominal Active AC power [W]	7000	7500	8000	9000	9900	10000	10500
Max. apparent AC power [VA]	7500	7500	8800	9900	9900	11000	11000
Rated grid voltage (AC voltage range) [V]	220/230/240						
Rated grid frequency [Hz]	50/60, ± 5						
Nominal AC current [A]	31.8	34.1	36.4	40.9	45.0	45.5	47.7
Max. AC current [A]	34.1	34.1	40.0	45.0	49.5	50.0	50.0
Inrush current	7.9A@50us						
Maximum output fault current	167A@10us						
Maximum output overcurrent protection [A]	75						
Displacement power factor	1 (Adjustable from 0.8 leading to 0.8 lagging)						
Total harmonic distortion(THDi, @rated output)	<3%						

4.3 Efficiency, Safety and Protection

Model	G7-VB	G7.5-VB	G8-VB	G9-VB	G9.9-VB	G10-VB	G10.5-VB
Max. MPPT efficiency	99.80%	99.80%	99.80%	99.90%	99.90%	99.90%	99.90%
Euro-efficiency	97.40%	97.40%	97.40%	97.40%	97.40%	97.40%	97.40%
Max. efficiency(@rated voltage)	97.80%	97.80%	97.80%	97.80%	97.80%	97.80%	97.80%
Safety & Protection							
DC reverse-polarity protection	Yes						
Anti-islanding protection	Yes						
Insulation monitoring	Yes						
Residual current monitoring	Yes						
AC short-circuit protection	Yes						
AC output over current protection	Yes						
AC output over voltage protection	Yes						
Surge protection	Type II (DC) and Type II (AC)						
Temperature protection	Yes						
Integrated DC switch	Yes						
AFCI Protection	Optional						
Night mode	Optional						
STANDARD							
Certification	IEC 62109-1/2, IEC 61000-6-1/3						

4.4 General Data

Model	
Dimensions (W*H*D) [mm]	395*394*187
Net weight [kg]	≤15.5
Cooling concept	Natural
Protective class	I
Ingress Protection(according to IEC60529)	IP65
Topology	Non-isolated
Over Voltage category	III (AC side), II (PV side)
Noise emission(typical)[dB] @1m	<30
Max. operating altitude(m)	3000
Operating temperature range [°C]	-25...+60 (derating at +45°C)
Storage temperature range [°C]	-40...+70
Humidity	0-100% (no condensation)
Self consumption (night) [W]	< 1W (without night mode) , < 5W (with night mode)
Pollution Degree	II
Monitoring module (optional)	Internal Wifi, and external WIFI module/4G module/LAN module as optional
Communication	Meter, CT, RS485, DRM(For AU only)
Display	LED, App, Web site

5 Installation

5.1 Installation Precautions

Danger!

- Do not wear loose clothing or jewelry when performing installation work, otherwise there may be a risk of electric shock!
- Before carrying out installation work, make sure that the mechanical strength of the installation location is sufficient to support the weight of the equipment, otherwise a mechanical hazard may result.

Warning!

All jumper components and component-mounted racks must be properly grounded, with unpainted contact surfaces.

Please strictly observe the following safety tips during installation operations. Otherwise, personal injury or death may occur.

- Installation must be performed properly by a professional under conditions that follow all warning tips.
- Nickel-plated copper is recommended, but aluminum can also be used.
- Remove the oxide layer and apply a suitable antioxidant caulking mix before connecting the aluminum busbar.
- For ease of installation and maintenance, it is recommended that sufficient space be allowed around the equipment: adequate cooling airflow, required clearances, and space needed for cables and cable support structures.

5.2 Unpackaging

Note!

Please open the package in order and do not knock it violently!

The following items must be checked before and after opening the box:

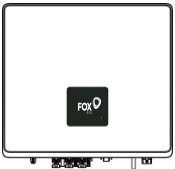
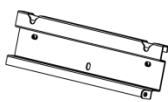
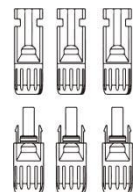
No.	Items
1	Check the appearance for any damage, scratches, dents, etc.
2	Check if all the accessories are included.
3	Check if the nameplate information matches the model of the ordered product.
4	Check the warning label for any damage, scratches, fading, etc.

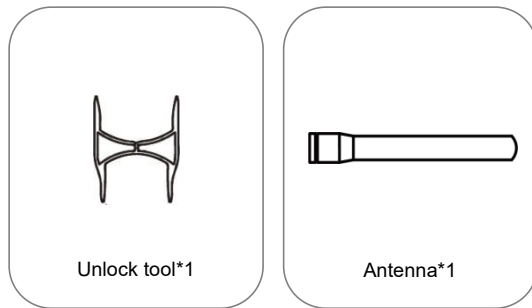
Unpacking Precautions

- During storage, the packaging must not be removed. It should only be removed when the equipment is ready for installation.
- Before unboxing, inspect the product's external packaging for any issues such as damage, breakage, moisture, dampness, or deformation.
- During unboxing, check the product and its accessories for surface defects like damage, rust, or dents.

Packing List

When receiving the goods from the carrier, it is essential to conduct a thorough and careful inspection of the products. Check each received item against the delivery slip. If any items are missing or damaged, the carrier should be notified immediately upon discovery. The packing list is as shown below:

			
Inverter*1	Bracket*1	DC connector*6	AC connector*1
			
Expansion tube*3	Expansion screw*3	DC pin contact (3*positive, 3*negative)	Earth terminal*1
			
Communication connector*1	Quick installation guide*1	CT *1 (Optional)	Meter *1 (Optional)



5.3 Installation Requirements

Selecting the optimal installation location for the inverter plays a very important role in its safe operation, life assurance and performance guarantee.

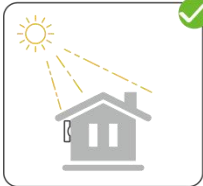
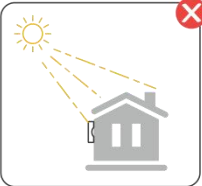
Environment Requirements

Warning!

The inverter generates high temperature during operation, so please install it in a location where it cannot be touched by human beings or isolate it by installing a protective net and erecting a safety warning sign on the outside.

Note!

Site selection should be in accordance with local laws and regulations and relevant standard requirements.

Items	Requirements
Location	● Ensure adequate ventilation to allow free air flow for effective dissipation of heat generated during inverter operation. ● The air intake and outlet must be professionally protected against rain, windborne sand, and dust. ● Ensure there are no trees around the installation site to prevent branches or leaves from being blown by strong winds and obstructing the product door or air intake. ● Necessary measures for fire prevention, water protection, and rodent prevention must be in place. ● It should be located away from areas with concentrated toxic or hazardous gases. ● Keep away from flammable, explosive, and corrosive materials. ● It is strictly prohibited to install the equipment in areas prone to microbial growth, such as fungi or mold. ● Install away from areas with strong vibration, high noise sources, and strong electromagnetic interference, such as large transformers and high-voltage power lines. ● Locate away from noise-sensitive areas (e.g., residential, office, and school zones). If installation in such areas is unavoidable, the installation site must be at least 40 meters away from the noise-sensitive area, and noise reduction measures must be implemented. ● Do not install the equipment outdoors in salt-affected areas because it may be corroded. A salt-affected area refers to the region within 1000 m of the coast or prone to sea breeze. Regions prone to sea breeze vary with weather conditions (such as typhoons and monsoons) or terrains (such as dams and hills). ● Install the inverter in a sheltered location, avoiding direct sunlight, to minimize adverse effects from high temperatures and weather conditions (rain, snow). ● It should ideally be installed in an environment with low dust levels, low humidity, and no condensation to prevent dust and moisture from entering the inverter, which could affect its performance and lifespan.    
Space	Sufficient space must be reserved on all sides (front, rear, left, right) and above the equipment for heat dissipation, maintenance, and emergency evacuation.
Altitude	3000m (Derating at 2000m)
Temperature	-25°C~+60°C (Derating at +45°C)
Relative Humidity	0%~100%

 Warning!

The intrusion of moisture can easily cause damage to the equipment! For normal use of the equipment:

- Do not open the cabinet door when the air humidity exceeds 95%.
- Avoid opening the cabinet door, performing maintenance or overhauling, etc., in rainy, lightning or humid weather conditions.

Installation Surface Requirements **Warning!**

Mounting the inverter on a wall that does not meet the specified conditions may cause equipment damage. Any resulting damage will not be covered under the warranty.

Requirements for the Wall

The wall used for mounting the inverter must meet the following conditions:

- It must be a solid brick/concrete surface or a surface of equivalent strength, and must be capable of bearing the weight.
- If the wall lacks sufficient strength (e.g., column walls or walls with thick decorative coverings), the inverter must be properly supported or reinforced.
- It is strictly prohibited to install the inverter on flammable surfaces or surfaces prone to resonance.
- It should be installed on a wall with good sound insulation to reduce the impact of operational noise.

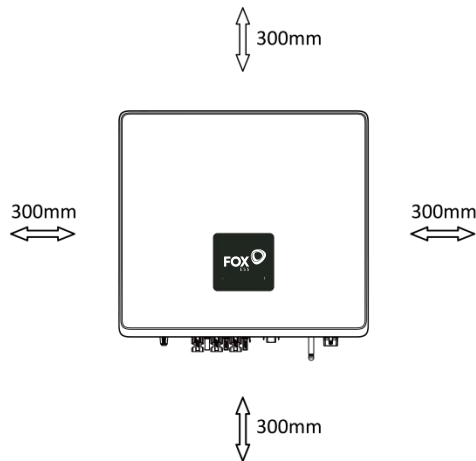
Requirements for Foundation

The foundation for the inverter must meet the following conditions:

- The installation surface must be flat, dry, and must be free of standing water.
- Ensure the ground is level, stable (without shaking), and can support the equipment's weight.
- If installed in an area with abundant vegetation, in addition to routine weeding, the ground beneath the equipment must be hardened (e.g., by laying concrete, gravel, etc.) over an area of no less than 3m × 2.5m.

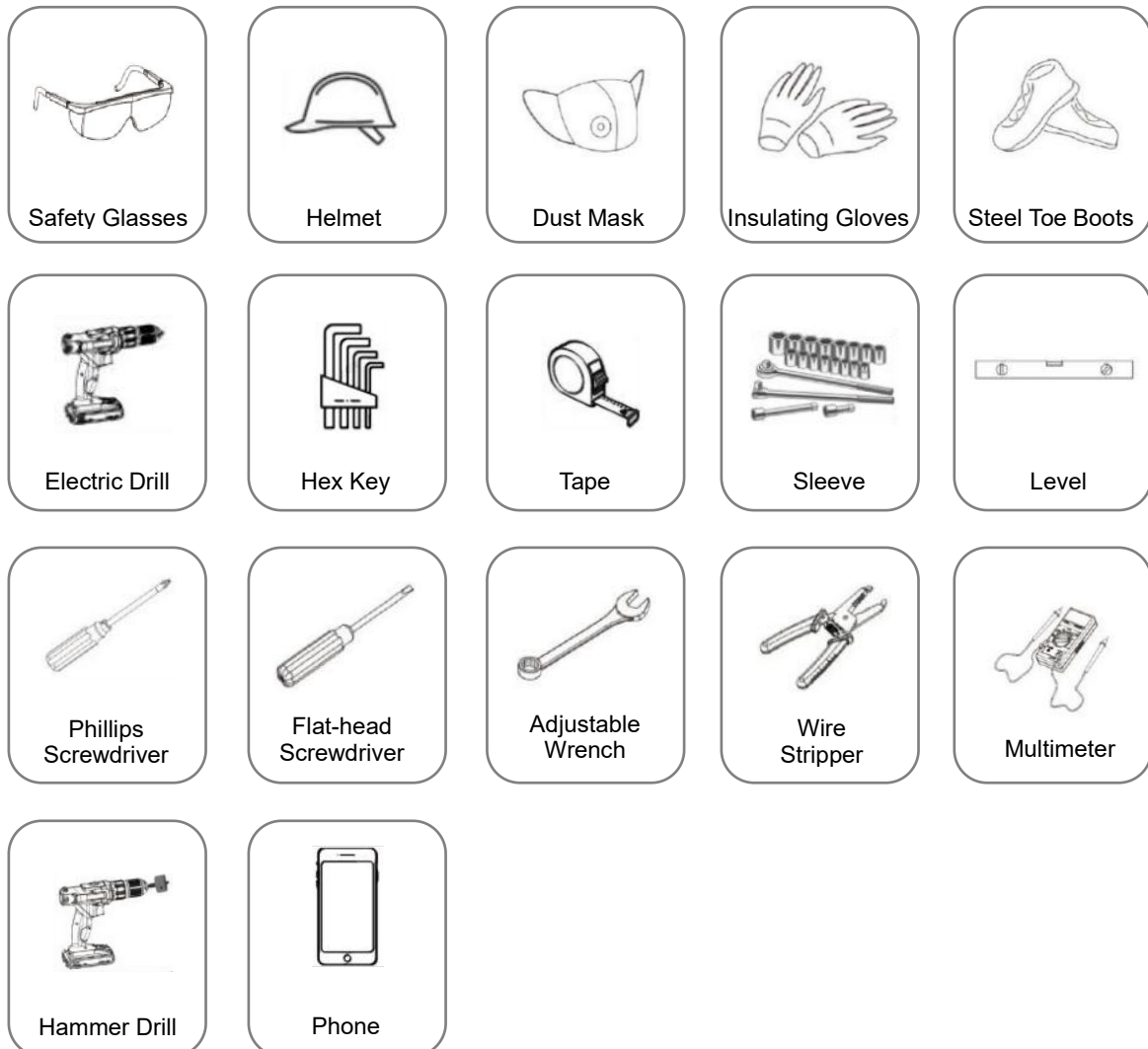
Requirements for Space

Adequate space must be reserved around the inverter, and a suitable installation angle must be selected to ensure sufficient room for installation and heat dissipation. The specific space requirements for a single inverter are illustrated in the following diagram.



Position	Min. space (mm)
Left	300
Right	300
Top	300
Bottom	300
Front	300

5.4 Tools Preparation



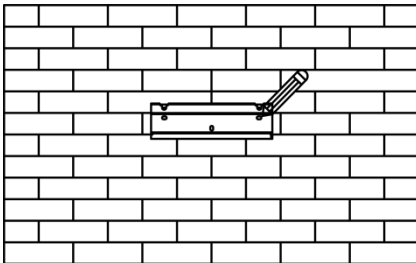
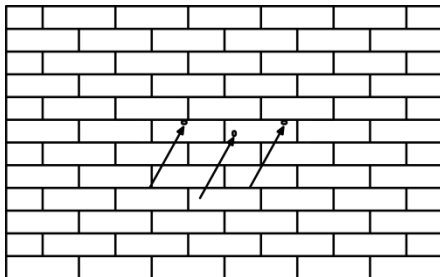
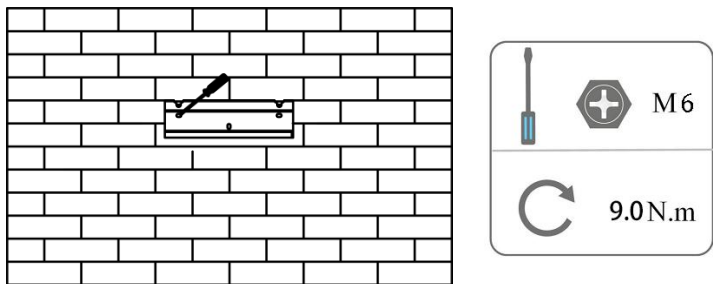
5.5 Inverter Handling

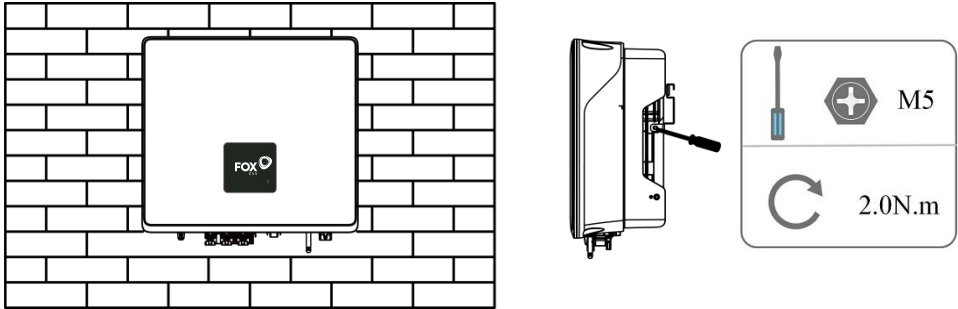
- When manually handling the unit, wear protective gloves, safety shoes, and other personal protective equipment to prevent injury during the process.
- Use correct lifting posture: Bend your knees to lower your center of gravity, grasp the inverter handles with both hands, and slowly straighten your knees, using the strength of your legs to lift the load. Keep the load close to your body and move using short, quick steps.
- Always maintain body balance during handling. Avoid making sudden turns or changes in direction.
- If a turn is necessary, execute it slowly and adjust your body posture in advance.
- If you feel fatigued or lack sufficient strength, you must stop handling immediately.

⚠ Warning!

Do not jerk or twist your body using the strength of your lower back, as this can lead to injury.

5.6 Installation Steps

Procedures	
Step 1	Choose the installation site for the inverter, ensuring to avoid concealed water pipes and electrical wiring within the wall to prevent any hazards.
Step 2	Place the bracket on the wall and mark the position of the 3 holes from bracket. 
Step 3	Drill holes with electric drill, make sure the holes are at least 50mm deep, and then tighten the expansion tubes. 
Step 4	Insert the expansion tubes into the holes and tighten them. Install the bracket with the expansion screws. 

Step 5	Mount the inverter to the bracket. Secure the inverter with the M5 screw and washer.
	

⚠ Warning!

Operators should wear protective goggles and dust masks to prevent dust from being inhaled into the lungs or falling into the eyes when punching.

Note!

The upper face of the expansion tubes must be made sure that it is level with the concrete wall surface and does not protrude from the concrete wall surface, otherwise it will make the wall plate unevenly placed on the wall surface.

6 Electrical Connection

6.1 External Protective Earthing

Danger!

The protective earth wire needs to remain grounded during installation and when removing the equipment.

Note!

The grounding resistance should comply with relevant standards and regulations to ensure effective current discharge. Normally, the value of the earth resistance should be small enough to ensure that the current can be rapidly conducted to earth in the event of a fault.

- Grounding connections must be secure and reliable to avoid loosening, corrosion, or poor contact. Appropriate anti-corrosion treatment should be applied at connection points.
- The entire grounding system, including the grounding electrode, main grounding conductor, branch conductors, and connections to equipment, must be maintained intact.
- The grounding system should undergo periodic inspection and testing, checking ground resistance and connection integrity. Ensure the equipment is reliably grounded before operation, and promptly identify and repair any damage or abnormalities.
- Strictly adhere to national and industry-specific electrical wiring standards and codes during construction and installation.

Grounding Terminal Requirements

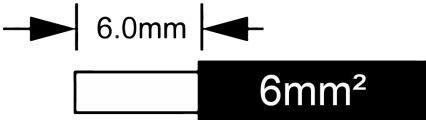
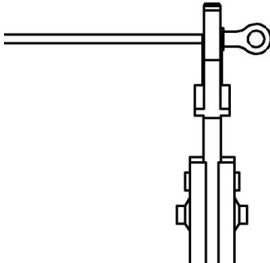
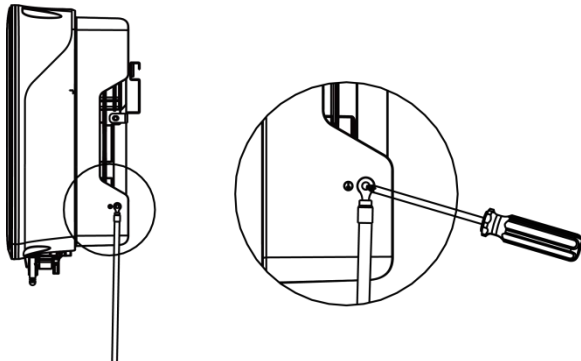
Material	Cross-Sectional Area (mm ²)	External Protective Grounding Terminal & AC Side Grounding Terminal
Copper	≥ 10	Simultaneous grounding is recommended.
Aluminum	≥ 16	Simultaneous grounding is recommended.
Copper	≥ 10	Simultaneous grounding is mandatory.
Aluminum	≥ 16	Simultaneous grounding is mandatory.

If alternative grounding methods comply with local standards and relevant safety codes, they may be implemented accordingly. The company assumes no liability for any consequences that may arise therefrom.

Grounding Cable Requirements

cross-sectional area of PE conductor	Description
half of the phase conductor	This requirement applies only when the PE conductor and the phase conductor are of the same material. If the materials differ, the PE conductor must possess an equivalent conductivity matching the specification in the table.

Grounding Procedures

Procedures	
Step 1	Trim 6.0mm of insulation from the wire end.
	
Step 2	Insert striped cable into earth terminal and ensure all conductor strands are captured in the earth terminal.
Step 3	Crimp earth terminal by using a crimping plier. Put the earth terminal with striped cable into the corresponding crimping pliers and crimp the contact.
	
Step 4	Use the crimping pliers to press the ground cable into the ground terminal, screw the ground screw with screwdriver as shown below:
	   M5  2.0N.m

6.2 DC Connection

G Series Inverters can be connected to a maximum of 3 strings of PV modules. Please select highly reliable and high-quality PV modules. The open-circuit voltage of the connected module array must be less than 600 V, and the operating voltage should be within the MPPT voltage range.

PV Input Configuration

As shown in the figure below, the inverter features multiple PV inputs, with each input equipped with an independent MPP tracker.

- Each PV input operates independently, with its own dedicated MPPT. The PV strings connected to different inputs can have different configurations, including panel type, number of panels per string, tilt angle, and azimuth.
- Each MPPT can accommodate up to 2 PV strings. To maximize the power output of the PV panels, ensure that all modules within the same system are of the same type, have identical output characteristics and specifications, and share the same tilt angle.

Before connecting the PV inputs to the inverter, ensure the following electrical parameter requirements are met:

Maximum Open-Circuit Voltage per Input	Maximum Allowable Current per Input Terminal
600 V	30 A

⚠ Danger!

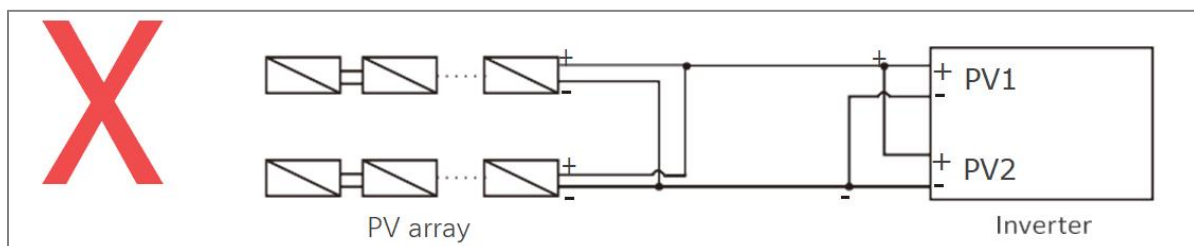
Do not ground the PV positive or negative terminal.

⚠ Warning!

PV modules produce high voltage, which is within the hazardous voltage range. Always adhere to electrical safety rules during connection.

Note!

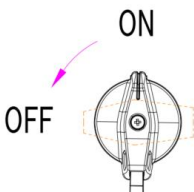
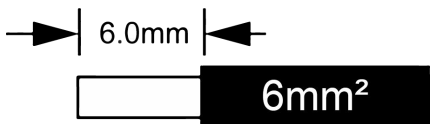
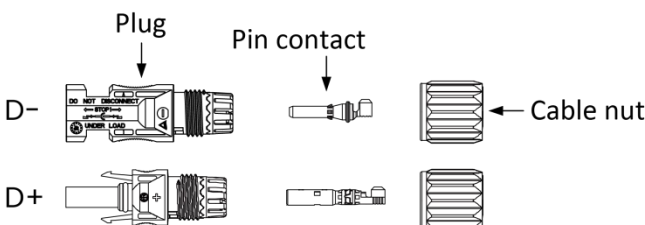
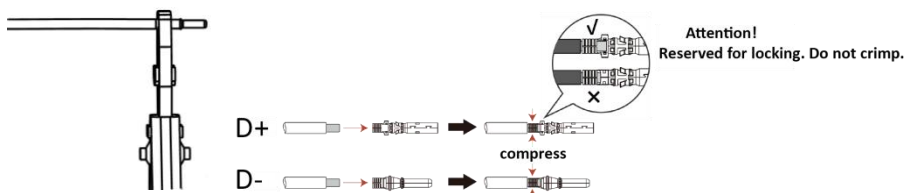
If the inverter does not have a built-in DC switch, select a suitable external DC switch. To save on cable costs and reduce DC power losses, it is recommended to install the inverter as close to the PV modules as possible.

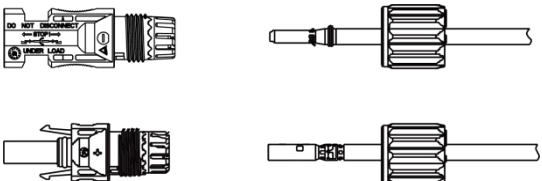


Cable specifications

Cable type	Cross-sectional area (mm ²)
PV cables meeting 1100 V standard	> 6

It is recommended to use 6mm² PV-specific DC cables for connecting PV modules.

Procedures	
Step 1	Turn off the DC switch.
	
Step 2	Choose 6mm ² wire to connect the PV module. Trim 6mm of insulation from the wire end.
	
Step 3	Separate the DC connector as below.
	
Step 4	Insert striped cable into pin contact and ensure all conductor strands are captured in the pin contact.
Step 5	Crimp pin contact with crimping pliers. Put the pin contact with striped cable into the corresponding crimping pliers and crimp the contact.
	

Step 6	Insert pin contact through the cable nut to assemble into back of the male or female plug. When you feel or hear a 'click' the pin contact assembly is seated correctly.
	

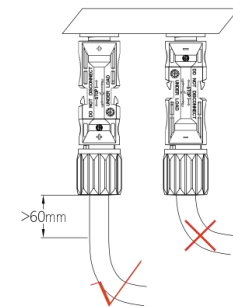
Unlock the DC connector:

- Use the specified wrench tool.
- When separating the DC + connector, push the tool down from the top.
- When separating the DC - connector, push the tool down from the bottom.
- Separate the connectors by hand.

Warning!

Ensure that the power cable connected to the inverter is connected vertically. If the cable is bent close to the terminals, this may result in poor line contact and burn the terminals.

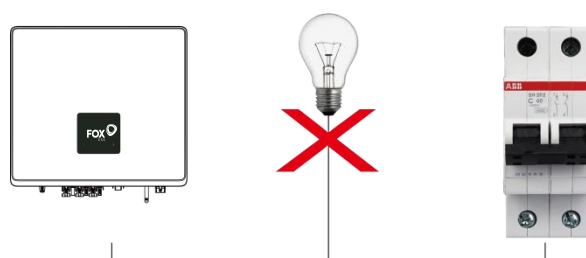
In order to avoid the cable bend force lead to a visible deformation in the sealing portion of the insulation, the cable need keep at least 60mm straight length.



6.3 AC Connection

G series inverters are designed for single-phase grid. Per voltage range is 220/230/240V; frequency is 50/60Hz. Other technical requests should comply with the requirement of the local public grid.

Model (kW)	7.0	7.5	8.0	9.0	9.9	10.0	10.5
Cable	10mm ²	10mm ²	10mm ²	10mm ²	10mm ²	10mm ²	10mm ²
Micro-Breaker	50A	50A	50A	63A	63A	63A	63A



⚠ Warning!

A micro-breaker for max output over-current protection device shall be installed between inverter and grid, and the current of the protection device is referred to the table above, any load SHOULD NOT be connected with the inverter directly.

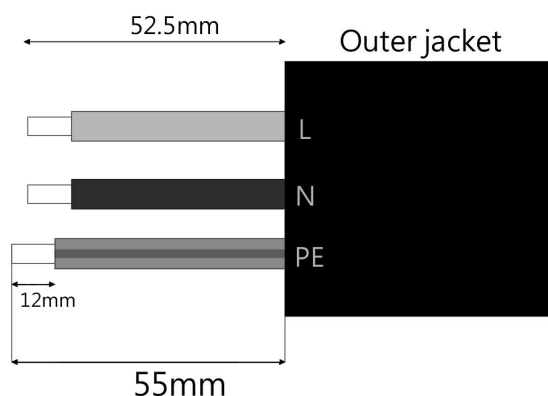
6.3.1 AC Wiring

Check the grid voltage and compare with the permitted voltage range (refer to technical data).

Disconnect the circuit-breaker from all the phases and secure against re-connection.

Trim the wires:

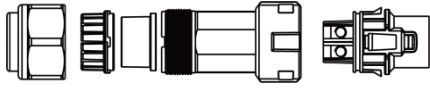
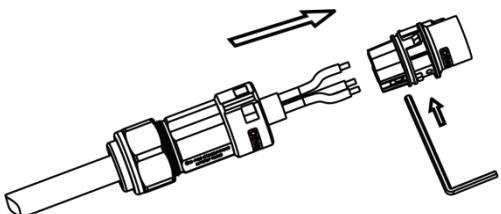
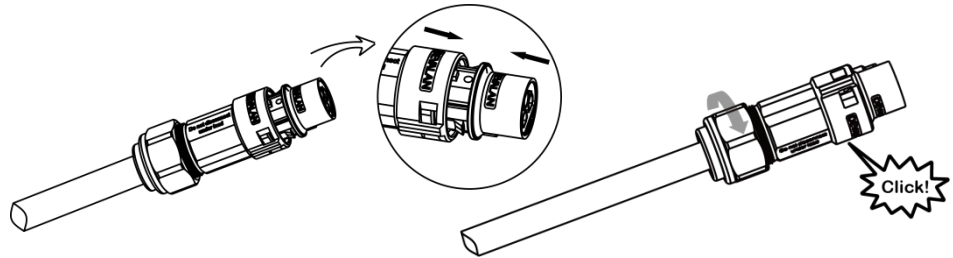
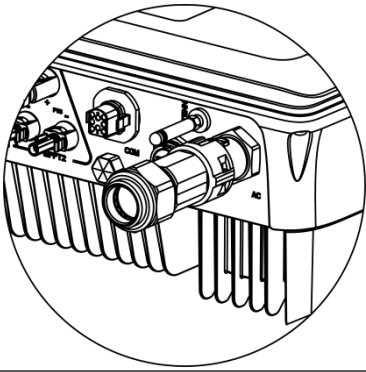
- Trim all the wires to 52.5mm and the PE wire to 55mm.
- Use the crimping pliers to trim 12mm of insulation from all wire ends as below.



Wires	Colors
L	Black/ Brown/ Grey Wire
N	Blue Wire
PE	Yellow & Green Wire

Note: Please refer to local cable type and color for actual installation.

6.3.2 GRID Wiring

Procedures	
Step 1	Separate the ON-GRID plug into three parts as below. - Hold middle part of the female insert, rotate the back shell to loosen it, and detach it from female inset. - Remove the cable nut (with rubber insert) from the back shell.
	
Step 2	Slide the cable nut and then the back shell onto the cable. Install the cable into the plug terminal and lock the screw, torque is $(2.0 \pm 0.2 \text{ N.m})$.
	
Step 3	Push the threaded sleeve into the socket, tighten up the cap on the terminal.
	
Step 4	Push the threaded sleeve to connection terminal until both are locked tightly on the inverter.
	

6.4 Communication Device Installation

WiFi Configuration:

This device has an integrated WiFi module inside. Please plug in the antenna before connecting to the network. After the inverter is powered on, you can start to connect to the network. Please scan the following QR code to get the detailed operation steps for network connection.



Note: This QR code contains app download path and configuration process.

6.5 Electrical Connection

DRM0

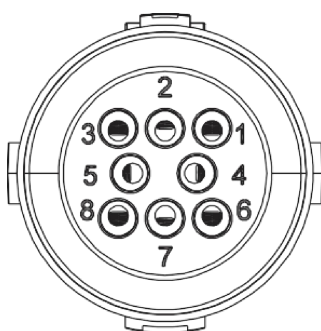
Model	Socket asserted by shorting pins		Function
DRM0	5	6	Operate the disconnection device.

Meter/CT/RS485

The inverter has integrated export limitation functionality. To use this function, a power meter or a CT must be installed.

The PIN definitions of Meter/CT/RS485/DRM0 interface are as below.

8 PIN:

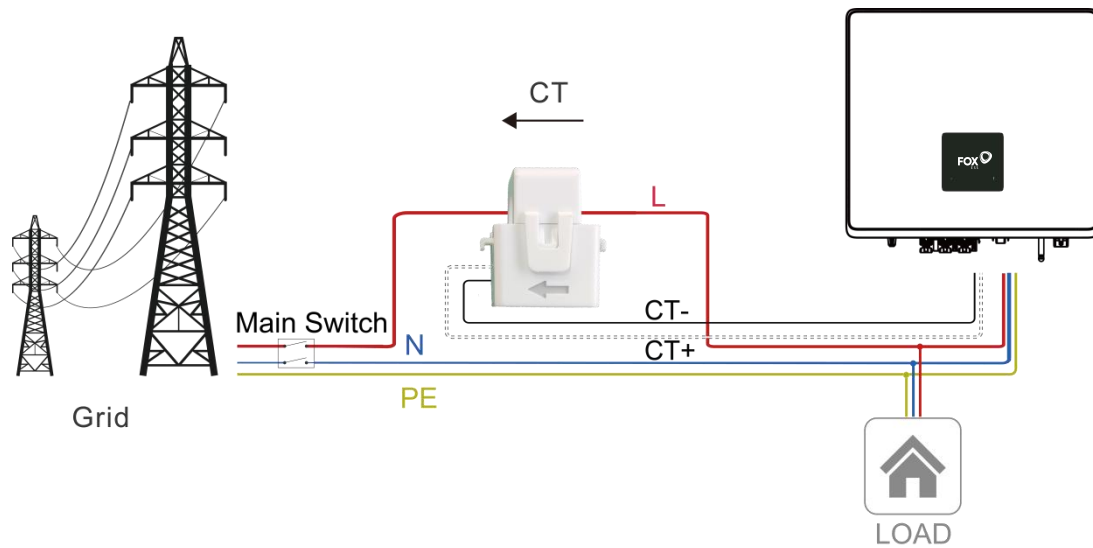


PIN	1	2	3	4	5	6	7	8
Definition	CT+	CT-	METER 485-	METER 485+	RefGen	COM/ DRM0	RS485-	RS485+

6.5.1 Meter/CT Setting

CT (optional) (EM-EICT-120K-T210C or CTSA016)

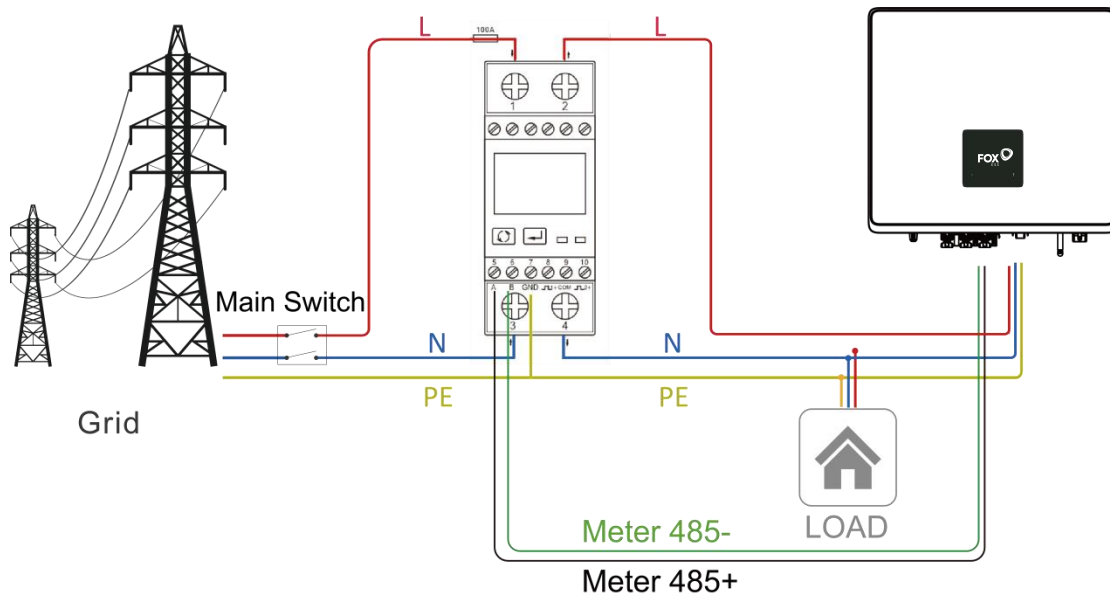
This inverter has an integrated export management function. To enable this function, a power meter or CT must be installed. The CT should be clamped on the main live line of the grid side. The arrow on the CT should be pointing towards the grid. The white cable connects to CT+, and the black cable connects to CT-.

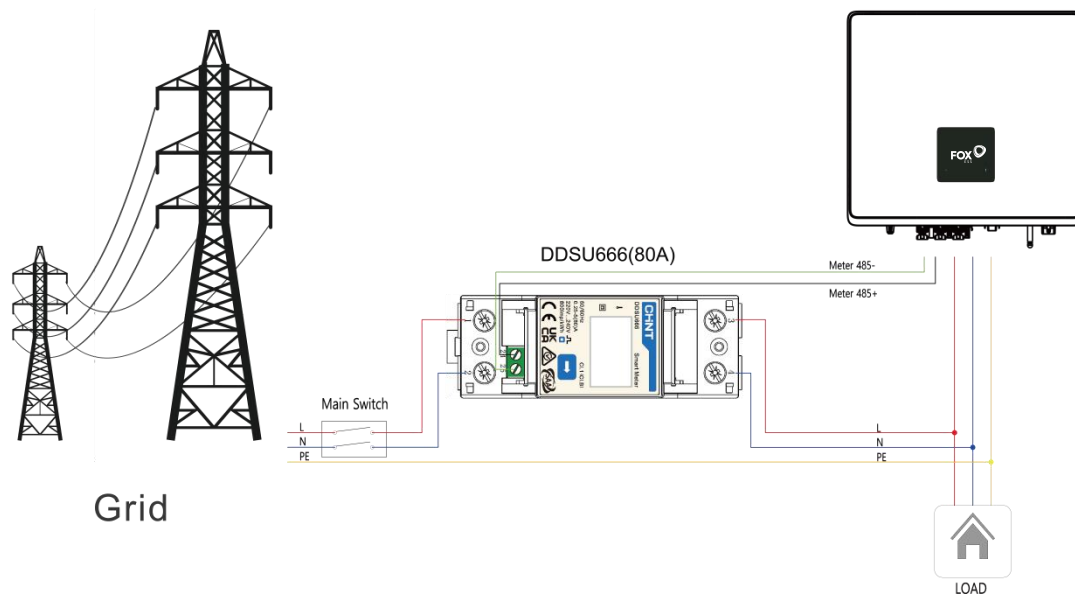
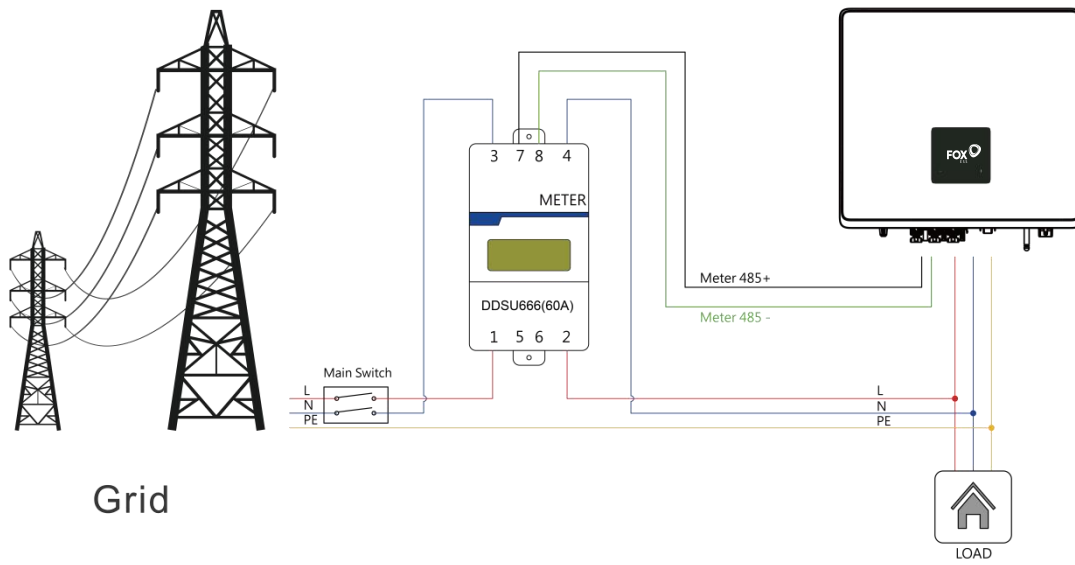
**Note!**

For a precise reading and control of power, a meter can be used instead of a CT. If the CT is fitted in the wrong orientation, anti-backflow function will fail.

Meter (optional) (Eastron-SDM230-Modbus or CHINT-DDSU666)

The inverter has integrated export limitation functionality. To use this function, a power meter or a CT must be installed. For Meter installation, please install it on the grid side.





7 System Commissioning

7.1 System Power-On

Pre-power-on Check

Before starting the inverter for the first time, the following checks must be performed:

- Verify the unit is securely fixed to the wall.
- Ensure all AC circuit breakers and DC circuit breakers are in the OFF (open) position.
- Confirm all PV strings are correctly connected to the inverter. Unused DC connectors must be sealed with protective caps.
- Ensure all switches are in the OFF position.
- Verify that all grounding cables are properly connected.
- Confirm the AC cables are correctly connected to the grid.
- Ensure the DC input cables are connected with correct polarity and are secure.
- Verify communication cables are correctly connected.
- Ensure all waterproof cable glands are properly sealed and the locking nuts are tightened.
- Unused USB ports must have their waterproof plugs tightened.
- Unused waterproof cable gland ports must have their protective blanks inserted and locking nuts tightened.
- Ensure all safety labels and warning signs are firmly attached and clearly visible.
- Turn on the external AC and DC connectors.
- Turn the DC switch to the "ON" position (if equipped with DC switch on the inverter).

If the LED is not green, please check the below:

- All the connections are correct.
- All the external disconnect switches are closed.
- The DC switch of the inverter is in the "ON" position.

Note:

- Set the time on the inverter using the APP.

Below are the three possible inverter states indicating that the inverter has started up successfully.

Waiting : Inverter is waiting to check the DC input voltage from panels is greater than 60V (lowest start-up voltage) but less than 80V (lowest operating voltage), green LED will flash.

Checking: Inverter will check DC input environment automatically when DC input voltage from the PV panels exceeds 80V and PV panels have enough energy to start inverter, green LED will flash.

Normal: Inverter begins to operate normally with green light on. Meanwhile feedback energy to grid.

Note: *Australia only

			Region A	Region B	Region C	NZ
VOLT-WATT	Voltage	Vw1	253V	250V	253V	242V
		Vw2	260V	260V	260V	250V
	(P)% OF Srated	Vw1	100%	100%	100%	100%
		Vw2	20%	20%	20%	20%
VOLT-VAR	Voltage	Vv1	207V	205V	215V	207V
		Vv2	220V	220V	230V	220V
		Vv3	240V	235V	240V	235V
		Vv4	258V	255V	255V	244V
	(P)% OF Srated	Vv1	44% Supplying	30% Supplying	44% Supplying	60% Supplying
		Vv2	0%	0%	0%	0%
		Vv3	0%	0%	0%	0%
		Vv4	60% Absorbing	40% Absorbing	60% Absorbing	60% Absorbing
Fixed PF	Fixed PF	Default	1	1	1	1
		Range	-0.8~0.8	-0.8~0.8	-0.8~0.8	-0.8~0.8
Reactive power	Reactive power	Default	0	0	0	0
		Range	-60%~60%	-60%~60%	-60%~60%	-60%~60%
Power Rate Limit	Wgra+	Default	16%	16%	16%	16%
		Range	5%-100%	5%-100%	5%-100%	5%-100%
	Wgra-	Default	16%	16%	16%	16%
		Range	5%-100%	5%-100%	5%-100%	5%-100%
Protection Setting	10 Mins Voltage	V	258V	258V	258V	249V
Freq Derate set	OVF	START	50.25Hz	50.15Hz	50.5Hz	50.2Hz
		STOP	52HZ	52Hz	53Hz	52Hz
	UNF	START	49.75Hz	49.85Hz	49.5Hz	49.8Hz
		STOP	48Hz	48Hz	47Hz	48Hz

Warning!

Power to the unit must be turned on only after installation work has been completed.

All electrical connections must be carried out by qualified personnel in accordance with legislation in force in the country of installation.

7.2 System Power-Off

Danger!

- Keep the DC switch of the inverter in the OFF (open) position.
- Keep the AC switch of the inverter in the OFF (open) position.

Do not power on the unit until the installation is fully complete. All electrical connections must be performed by qualified personnel according to the applicable laws of the installation country.

Warning!

- If the inverter has faulted, avoid standing directly in front of it.
- Avoid touching any parts of the inverter that may be energized.

Note!

Wear appropriate Personal Protective Equipment (PPE). Do not perform operations with bare hands.

Operational Procedures

Step 1 The inverter can pose burn and electric shock hazards during operation. To prevent personal injury and equipment damage during troubleshooting, power-off, or replacement, strictly follow the steps below.

Step 2 Wear the required Personal Protective Equipment (PPE).

Step 3 If the inverter has already shut down due to a fault, proceed to the next step.

Step 4 Open (turn OFF) the AC switch/circuit breaker between the inverter and the grid.

Step 5 Use a multimeter to measure the voltage from the AC terminals to ground, confirming that the AC side of the inverter is de-energized.

Step 6 Turn the DC isolation switch to the OFF position. Wait at least 15 minutes for the inverter to discharge and fully power down.

Step 7 After waiting for the duration specified on the inverter's label, you may proceed with fault analysis or maintenance operations.

8Operation

8.1 Control Panel



NO.	Name	Function
A	Indicator LED	Red: The inverter is in fault mode.
B		Green: The inverter is in normal state.

9 Maintenance

This section contains information and procedures for solving possible problems with the inverters and provides you with troubleshooting tips to identify and solve most problems that can occur.

9.1 Alarm List

Fault Code	Solution
DCI Fault	- Wait for one minute after the inverter reconnects to grid. - Disconnect PV (+), PV (-) with DC. - After the LED switches off, reconnect and check again. - Please seek for help from us if it does not go back to normal state.
EEPROM Fault	- Disconnect PV (+), PV (-) with DC. - After the LED switches off, reconnect and check again. - Please seek for help from us if it does not go back to normal state.
GFCI Fault	- Disconnect DC and AC connector, check the surrounding equipment on the AC side. - Reconnect the input connector and check the state of inverter after troubleshooting. - Please seek for help from us if it does not go back to normal state.
GFCD Fault	- Disconnect PV (+), PV (-) with DC. - After the LED switches off, reconnect and check again. - Please seek for help from us if it does not go back to normal state.
Grid 10Min OVP	- System will reconnect if the grid is back to normal. - Or seek for help from us if it does not go back to normal state.
Grid Freq Fault	- Wait for one minute, grid may go back to normal working state. - Make sure that grid voltage and frequency complies with standards. - Or please seek for help from us.
Grid Lost Fault	- Please check grid-connection, e.g., wires, interface etc. - Checking grid usability. - Or seek for help from us.

Fault Code	Solution
VGridTransient Fault	- Disconnect PV (+), PV (-) with DC. - After the LED switches off, reconnect and check again. - Please seek for help from us if it does not go back to normal state.
Grid Voltage Fault	- Wait for one minute, grid may go back to normal working state. - Make sure that grid voltage and frequency complies with standards. - Or, please seek for help from us.
Isolation Fault	- Check the impedance among PV (+), PV (-) and ground. Impedance should be >1Mohm. - Please seek for help from us if it cannot be detected or the impedance is <1Mohm.
Ground Fault	- Check the voltage of neutral and PE. - Check AC wiring. - Restart inverter, if error message persists, seek for help from us.
OCP	- Turn off the PV and grid, reconnect them. - Or seek for help from us if it does not go back to normal.
PLL Fault	- System will reconnect if the utility is back to normal. - Or seek for help from us if it does not go back to normal state.
PV OVP	- Check the panel's open-circuit voltage whether the value is similar or already >585Vdc. - Please seek help from us when voltage ≤585Vdc.
Relay Fail	- Disconnect PV (+), PV (-) with DC. - After the LED switches off, reconnect and check again. - Please seek for help from us if it does not go back to normal state.
SCI FAULT	- Disconnect PV+, PV-, reconnect them. - Or seek for help from us if it does not go back to normal state.
SPI FAULT	- Disconnect PV (+), PV (-) with DC. - After the LED switches off, reconnect and check again. - Please seek for help from us if it cannot go back to normal state.
Over Temp	- Check if the environment temperature is over the limit. - Or seek for help from us.

9.2 Troubleshooting

Step 1 Attempt the solutions shown in the table above.

Step 2 If your inverter information panel does not display a fault indicator, check the following items to ensure the current installation status permits normal operation of the unit:

- Is the inverter located in a clean, dry, and well-ventilated area?
- Is the DC input circuit breaker turned ON?
- Are the cables of appropriate size?
- Are the input and output connections and wiring in good condition?
- Are the configuration settings suitable for your specific installation?
- Are the communications cable properly connected and undamaged?

Contact customer service for further assistance. Please be prepared to describe details of your system installation and provide the model and serial number of the unit.

9.3 Routine Maintenance

Environmental factors such as temperature, humidity, dust, and vibration can lead to the aging of internal components, potentially causing latent failures or reducing the cabinet's service life. Therefore, it is necessary to perform both routine and periodic maintenance.

To avoid electric shock hazards before performing maintenance, inspection, or other operations:

- Disconnect all AC and DC side switches.

Operating Environment Requirements

- Do not install the equipment in adverse environmental conditions: such as flammable, explosive gases or fumes, corrosive atmospheres, extreme high or low temperatures, or high humidity areas (Recommended ambient temperature: -25°C to +60°C).
- Keep away from open flames, flammable/explosive materials, and heating appliances to prevent equipment damage from heat or fire hazards.
- Adequate ventilation is crucial for heat dissipation. Do not block ventilation vents, heat dissipation systems, or cover the equipment with other items to prevent inverter malfunction or damage due to overheating.

Note!

The operating temperature range specified in the equipment technical specifications refers to the ambient temperature surrounding the equipment after installation, under which the equipment will operate effectively within the stipulated range.

Safety Inspection

A safety inspection must be performed by qualified technical personnel at least every 12 months. The inspection data should be recorded in the equipment log. If the equipment is not functioning correctly or fails any test, it must be repaired.

9.3.1 Maintenance Checklist

During inverter operation, responsible personnel should periodically inspect and maintain the unit. The required operations are as follows:

No.	Periodic Inspection Item	Inspection Frequency
1	Check if dust and dirt have accumulated on the heat sink at the rear of the inverter; clean the machine if necessary.	Perform Periodically
2	Check if the inverter's indicator lights are functioning normally.	Every 6 Months
3	Check input and output cables for damage or aging.	Every 6 Months
4	Clean the inverter panel and check its security at least every 6 months	Every 6 Months

Note: The above operations should only be performed by specialized personnel.

9.3.2 Touch-up Painting Guide

For surface dirt only:

- Clean using a cloth moistened with water or 97% alcohol.

For damaged topcoat:

- Smooth the damaged area surface using sandpaper.
- Clean the surface with 97% alcohol.
- After the surface dries, perform the touch-up painting operation on the damaged area, striving for an even and aesthetically pleasing application.

For paint damage exposing the substrate:

- Smooth the damaged area surface using sandpaper.
- Clean the surface with 97% alcohol.
- After the surface dries, apply a zinc-rich primer to the damaged area by spraying.
- After the primer dries, apply the topcoat, striving for an even and aesthetically pleasing application.

10 Inverter Storage and Disposal

10.1 Disassembling the Inverter

- Disconnect the inverter from the DC input and AC output. Wait for 5 minutes to ensure the inverter is completely powered down.
- Disconnect communication cables and any optional monitoring modules. Remove the inverter from the wall mounting bracket.

If possible, use the original packaging to repack the inverter. If the original packaging is unavailable, an equivalent box meeting the following requirements may be used:

- Capable of bearing a weight of 30 kg.
- Includes handles.
- Can be fully enclosed

10.2 Storing the Inverter

If the inverter is not put into operation immediately, it must be stored under specific environmental conditions.

- Regularly inspect the storage condition of the inverter. Check for moisture, mold, or signs of pest/rodent infestation. Replace packaging materials promptly if necessary.
- The equipment must be stored in a dry, well-ventilated area with a relatively stable temperature, consistently maintained between -30°C and 60°C, and a relative humidity range of 5% to 95%. Avoid direct sunlight and keep a distance of $\geq 2\text{m}$ from heat sources.
- Avoid locations subject to water splashing, rain, dampness, high temperatures, or outdoor exposure. If the floor is damp, place the packaging box on a shelf or elevated platform to avoid direct contact with the ground and minimize moisture risk.
- The storage area must be free of harmful gases, flammable, explosive materials, and corrosive chemicals.
- For long-term storage, the equipment must be covered or appropriate measures taken to protect it from contamination and environmental impact.
- Avoid mechanical shock, heavy pressure, strong electric fields, and strong magnetic fields.
- Products stored under the above conditions for more than 12 months must undergo capacity verification tests and re-inspection before they can be used.

Note: Please adhere to the storage requirements. Product damage caused by failure to meet these conditions is not covered under warranty.

10.3 Transporting the Inverter

- Ensure the product is securely packaged before vehicle transport. Use enclosed containers for long-distance transportation.
- It is strictly prohibited to transport this product together with equipment or items that could potentially affect or damage it.

10.4 Decommissioning/Scrapping the Inverter

- Certain components of the inverter may cause environmental pollution. When disposing of the inverter or its related components, ensure compliance with local waste disposal regulations.

11 Appendix

11.1 Quality Guarantee

FOXESS CO., Ltd. (hereinafter referred to as "the Company") will, for products found to be faulty during the warranty period, repair the product free of charge or replace it with a new one.

Supporting Documentation Required

When requesting warranty service, the customer must present the original purchase invoice indicating the date of purchase. Furthermore, the product's trademark must be clearly visible. The Company reserves the right to decline warranty coverage if these conditions are not met.

Relevant Conditions

- Non-conforming products replaced under warranty shall be disposed of by the Company.
- The customer must allow the Company a reasonable period of time to complete repairs on faulty equipment.

Warranty Exclusions

The Company reserves the right to decline warranty coverage under the following circumstances:

- The entire machine or specific components have exceeded the free warranty period.
- Damage incurred during transportation.
- Faults resulting from incorrect installation, modification, or use.
- Operation in environments that exceed the limits specified as harsh in this manual.
- Malfunctions or damage caused by installation, repair, alteration, or disassembly performed by service organizations or personnel not authorized by the Company.
- Use or installation outside the scope defined in the relevant international standards.
- Damage caused by abnormal natural disasters.
- Damage resulting from storage conditions that do not meet the requirements stated in the product documentation.
- Any losses arising from failure to adhere to the safety precautions outlined in this manual.

If a product failure is caused by any of the above circumstances and the customer still requests repair services, the Company's authorized service organization may, upon assessment, provide repair services subject to a charge.

Other Provisions

The Company reserves the right to change product dimensions and parameters based on its latest documentation without prior notice.

11.2 Contact Us

If you have any questions about the product, please contact us:

- Fox ESS Headquarters: No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China.
- Wuxi R&D Center: No. 37 Huaqing Avenue, Wuxi Economic Development Zone (Intersection of Huaqing Avenue and Huayun Road)
- Wuhan R&D Center: 6th Floor, Block A, Tower T4, CHINA PROCUREMENT CENTER, No.789 Gaoxin Avenue, East Lake New Technology Development Zone, Wuhan City, Hubei Province, P.R. China
- Shanghai R&D Center: No.1255, Jinhai Road, Pudong New Area, Shanghai, China
- After-Sales Service Hotline: 400 1888 900
- Contact Telephone (Wenzhou): 0577-88159999
- Contact Telephone (Wuxi): 0510-68092998
- Contact Us: info@fox-ess.com
- Contact Us (EV Charger): ev@fox-ess.com
- After-Sales Service: service@fox-ess.com