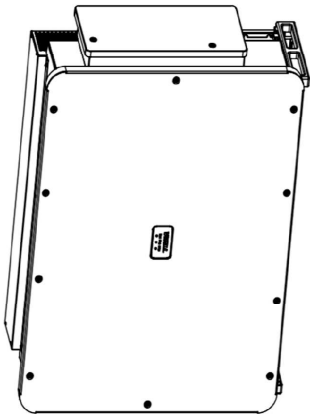


Grid-Connected Inverter Quick Installation Guide



Note:

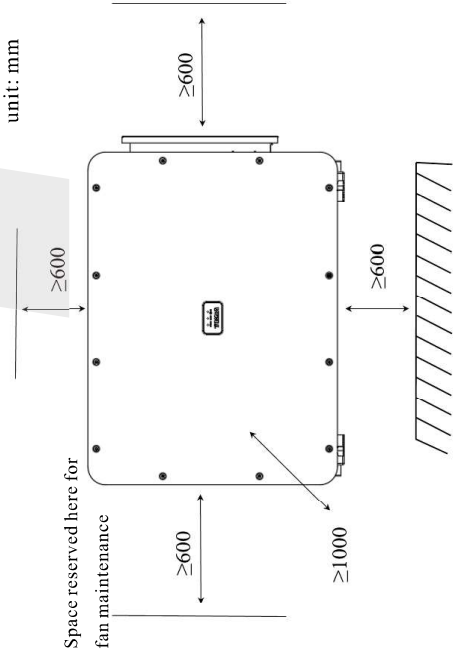
- 1.Before installing the inverter, please make sure the DC switch is "OFF".
- 2.After closing the DC switch of the inverter, if there is any DC switch trip, please do not close the switch again and contact our after-sales service engineers to deal with it in time.
- 3. Professional installers should always ensure that all fasteners are tightened, otherwise there is a risk of water penetrating the equipment and any resulting equipment failure is not covered by the warranty. Refer to the user manual for additional precautions.

1. Equipment inspection and scope of delivery

- 1. Please store the equipment in a clean and dry place before installation.
- 2. Prohibit the use of accessories not provided by our company, otherwise the equipment failure caused by this situation is not covered by the warranty.
- 3. Before installing the equipment, please check whether the goods are complete, whether the equipment is deformed, if there is any damage, please contact us at the first time.
- 4. The installation location of the equipment should be far away from fire and other dangerous areas.
- 5. Due to the different models of inverter, the quantity of positive and negative DC terminals are different, and the actual delivery quantity shall prevail. The specific scope of supply is listed in the table below:

Item	Quantity/pcs	Item	Quantity/pes
Inverter	1	Mounting bracket	1
M8×20 screw	2	M10×70 screw	4
M4×12 screw	2	M10 nut	4
DC terminals(PV+/PV-)	30/30	Connecting terminals	2
Flat gasket	8	Spring gasket	4

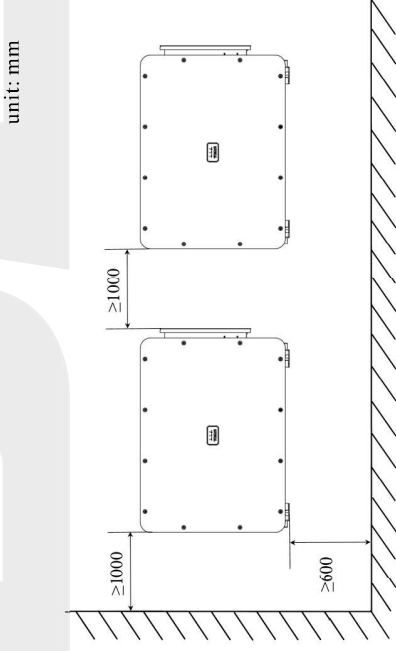
3. Single unit installation space requirement



Note:

- 1. Equipment dimension: W×H×D=1120mm×820mm×365mm.
- 2. If there are weeds under the inverter, regular weeding is required.
- 3. Please pay attention to the safety when installing the inverter, it is recommended to use the mechanical lifting method when the installation position is high.

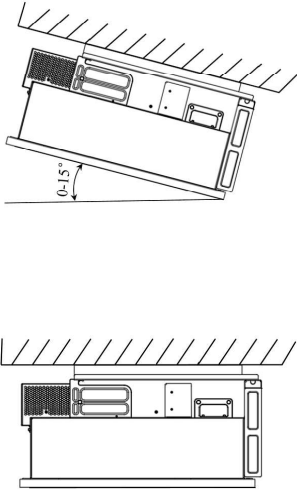
4. Multiple unit installation space requirement



Note:

- 1. Safety signs, warning labels and nameplates on the inverter body must be clearly visible and not be removed or covered.
- 2. Reserve space for cable routing for multiple unit installations, and use cable fixing brackets when the height of the wiring surface exceeds 1 meter.
- 3. The inverter should be installed in a ventilated environment for good heat dissipation.

2. Installation environment and angle

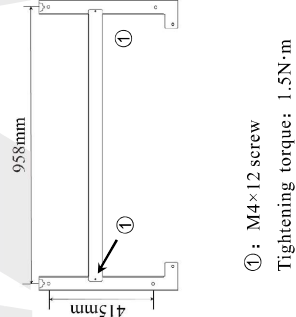


Note:

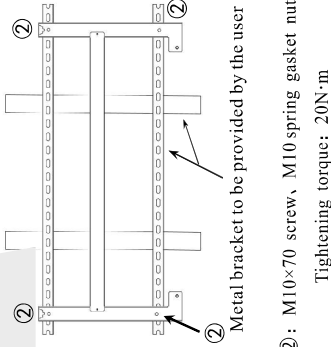
- 1. Install the equipment in a shaded location (or build a sunshade) to avoid direct sunlight and ensure that the working environment of the equipment is safe and the ambient temperature is -25~60°C.
- 2. The installation location should be far away from low-lying areas to ensure that the equipment does not wade into water.
- 3. Recommended vertical or backward tilt angle less than 15° installation, any inverter damage due to not in accordance with our recommended installation method will not be covered by our warranty.
- 4. Ensure that the air inlet and outlet are free of obstructions during installation to ensure smooth heat dissipation.

5. Installation mounting bracket

(1) Assemble mounting bracket



(2) Install mounting bracket

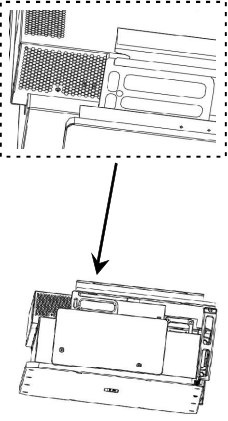


Note:

- 1. The product accessory package is equipped with M10×70 combination bolts, if the length can not meet the needs of on-site installation, users are requested to prepare stainless steel bolts by themselves.
- 2. The use of Combination bolts need to put a flat gasket in front of the nut to increase the contact area, thereby increasing the reliability of fastening.
- 3. It is recommended to do anti-rust treatment on the external bolts and perforated mounting place.
- 4. The load capacity of the bracket is ≥500kg.

6. Install the inverter

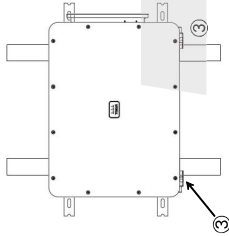
(1) Hang the inverter



Note:

1. Be sure to use our original mounting bracket.

(2) Fasten the inverter

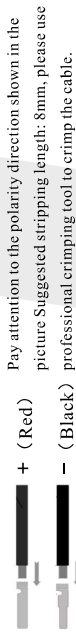


③: M8x20 screw

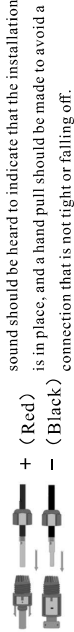
Tightening torque: 10N·m

9. Connect the DC input cable

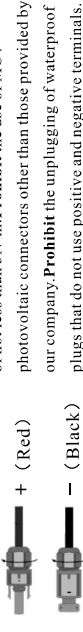
(1) Crimp Cable



(2) Make Terminal



(3) Fasten

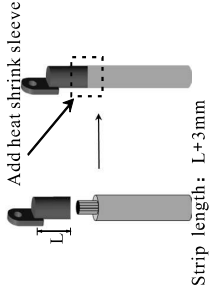


Note:

1. Make sure the DC switch is "OFF" before wiring. Before connecting the PV strings to the inverter, make sure that the PV strings are well insulated from the ground.
2. For each positive and negative connector connected to the PV string, before connecting to the inverter, use a multimeter to measure the voltage, which should be positive, to ensure the correct polarity and the value is less than the maximum input voltage of the system (1500V); measure the DC voltage of each PV string positive and negative level terminals to the ground to check that there is no grounding condition of the string. The 21st DC branch must ensure that there is a photovoltaic string connection.
3. Please reserve 30cm margin outside the inverter to prevent the cable terminals from being pulled by external factors.
4. When the access string is less than 30, please contact us to provide you with an access program to improve power generation.
5. PV strings connected to the same MPPT must use the same type and quantity of PV modules.

7. Connect the ground cable

(1) Make the ground cable



Strip length: L+3mm

Recommended copper wire cross

sectional area shall not be less than S/2;

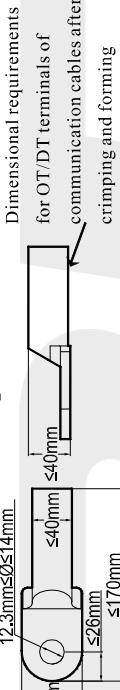
Where S is the cross-sectional area of

the AC output line conductor

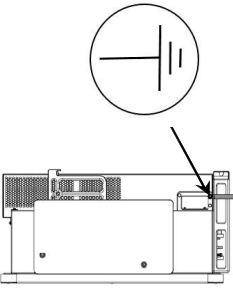
Note:

1. After the grounding terminal is tightened, apply silicone or outdoor paint on the outside of the terminal to improve the corrosion resistance of the terminal.
2. Please make sure the inverter is well grounded.

8. Connect the AC output cable



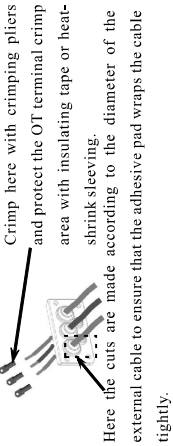
(2) Connect the ground cable



Use yellow green cable and M12 screw

tightening torque: 20N·m

(1) Make the AC cable



Cable armor layer stripped 200mm, recommended copper conductor cross sectional area 70~150mm², recommended aluminum alloy conductor cross sectional area 150~400mm².
Note:

1. After wiring, check whether there are operation tools, unused screws and wires and other debris left in the cabin.

2. The tightening torque of AC cable terminal M12 (OT terminal) is 30~45N·m. The size of the terminal can refer to the diagram. After installation, close the cabin door and tighten it in time, of which the tightening torque of the door screw is 6N·m.

3. If the terminal aperture purchased by the customer is greater than 14mm, additional gaskets need to be added to meet assembly requirements. If the customer does not communicate with the equipment manufacturer in advance, resulting in the selected terminal aperture not being within the range marked on the drawing, additional gaskets need to be added during installation to meet the assembly requirements, and the resulting costs will be borne by the customer themselves. Suggested gasket material is 304 stainless steel passivated, with a thickness of 3mm-5mm, and the inner and outer diameters refer to the national standard GB/T96.2-2002.

4. When using copper wires, please use copper wire terminals; when using aluminum alloy cables, please use copper and aluminum transition terminals.

5. When installing AC cables, make bending reserve margins inside the wiring compartment, so as to avoid tension on the cable terminals caused by changes in external factors.

12. Grid connection

Close the auxiliary switch and wait for the communication board lights to blink out of sync

Close three DC switches in sequence

Disconnect the auxiliary switch and make sure that there is no abnormality in the main switch

Inverter AC side power feed

Inverter self-test and grid connection

Note:

1. Before grid-connection, make sure that there are PV modules connected to the 21st branch of DC, and confirm that there are no short-circuit, reverse connection and grounding.

2. After the inverter is connected to the grid, the operation and maintenance personnel will connect to the inverter App to confirm the inverter operation status (output power, PV branch current and voltage, grid-side voltage, etc.), and the grid connection will be completed if there is no abnormality.

Special reminder:

1. Prohibit the inverter DC cable from multi-point grounding.

2. After the equipment has been running for one week, use the infrared detector to measure the temperature of the DC connection terminals in a well-lit environment, if there is no abnormality, it means that the DC terminals are connected reliably.

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