

THREE PHASE

STORAGE INVERTER

QUICK INSTALLATION GUIDE

ISSUE: V1.4

DATE: 2026-6-25

FOXESS CO., LTD.



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2. Only certified electricians are allowed to operate the device. Operation personnel must wear proper personal protective equipment (PPE).

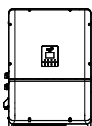
3. Before installing the device, check that the package contents are intact and complete against the packing list. If any damage is found or any component is missing, contact your dealer.

4. The device damage caused by the violation of instructions in this document is not covered under warranty.

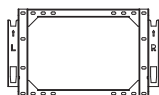
5. The cable colors involved in this document are for reference only. Select cables in accordance with local cable specifications.

1

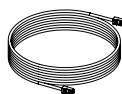
Packing List



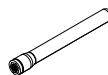
A



B



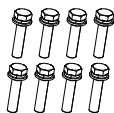
C



D



E



F



G



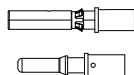
H



I



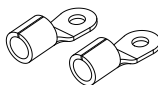
J



K



L



M



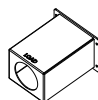
N



O



P



Q



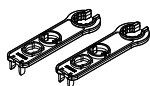
R



S



T



U



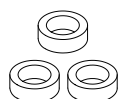
V



W



X



Y

OBJ	QTY	DESC	OBJ	QTY	DESC
A	1	Inverter	B	1	Hanging Plate
C	1	Meter Communication Cable	D	1	Antenna
E	4	Screw-in Type Handle	F	8	M10×45 Bolt Assembly
G	8	M10 Hexagon Nut	H	2	M6×65 Bolt Assembly
I	6	25 mm ² Tube-type Cold-pressed Terminal (for CQ6 & CQ7 Batteries)	J	6	16 mm ² Tube-type Cold-pressed Terminal (for CQ16 Battery)
K	16/32	DC Pin Plug (4 MPPT: Positive ×8, Negative ×8; 8 MPPT: Positive ×16, Negative ×16)	L	12	M5×16 Bolt Assembly
M	2	Ground Terminal	N	3	5 mm & 8 mm & 10 mm Internal Hexagon Wrench
O	1	Quick Installation Guide	P	16/32	DC Connector (4 MPPT: Positive ×8, Negative ×8; 8 MPPT: Positive ×16, Negative ×16)
Q	1	Load Waterproof Cover	R	1	Grid Waterproof Cover
S	1	Generator Waterproof Cover	T	8	M10×100 Expansion Bolt
U	2	DC Connector Removal Tool	V	1	Meter
W	1	CT	X	1	Big Magnetic Ring (for Battery Power Cable)
Y	3	Small Magnetic Ring (for BMS Communication Cable)			

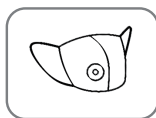
2 Required Tools



Safety Goggles



Steel Toe Boots



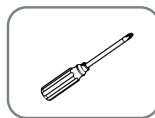
Dust Mask



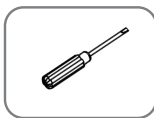
Helmet



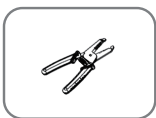
Insulating Gloves



Phillips-Head Screwdriver



Flat-Head Screwdriver



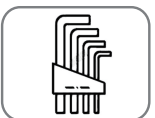
Wire Stripper



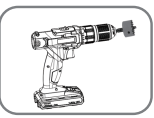
Electric Drill



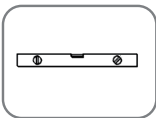
Adjustable Wrench



Hex Wrench Set



Hole Punch



Level



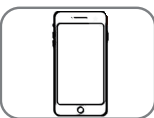
Tape



Sleeve



Multimeter



Phone

DANGER:



Special care must be taken to protect personal safety.

PPE must be worn during transfer and installation.

WARNING:

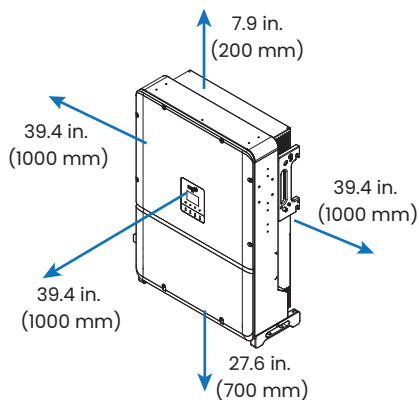


Please use proper protective measures, such as foam or protective cloth, keep the equipment well protected from hard objects that may damage their exterior appearance or body during handling and installation.

3 Inverter Installation

3.1 Installation Environment

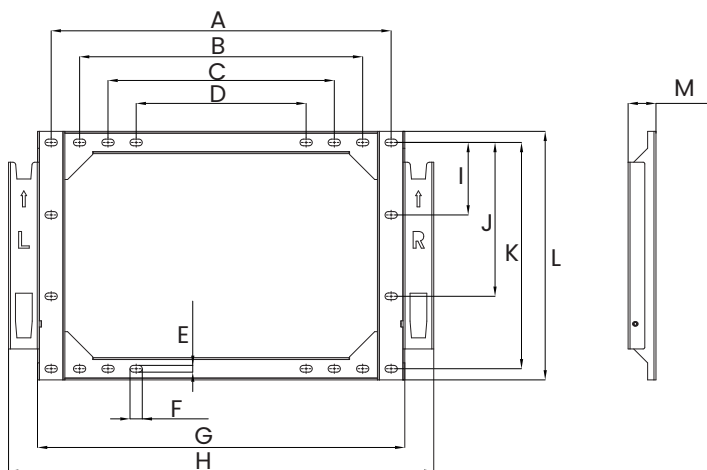
Please make sure the inverter will be installed with a proper distance as shown below.



Position	Min Size
Left	39.4 in. (1000 mm)
Right	39.4 in. (1000 mm)
Top	7.9 in. (200 mm)
Bottom	27.6 in. (700 mm)
Front	39.4 in. (1000 mm)

3.2 Installation Steps

Install the Inverter on a bracket or wall by means of the hanging plate. The size of the hanging plate is shown as below:



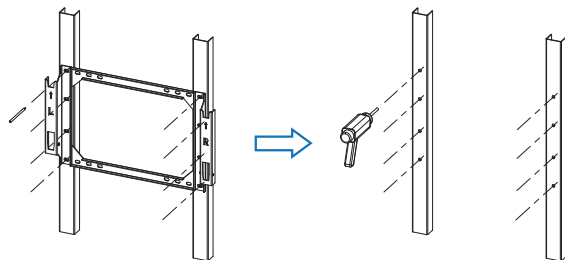
A: 24.02 in. (610 mm)
 B: 20 in. (508 mm)
 C: 15.98 in. (406 mm)
 D: 12.01 in. (305 mm)
 E: 0.47 in. (12 mm)
 F: 0.47 in. (12 mm)
 G: 25.94 in. (659 mm)

H: 30.04 in. (763 mm)
 I: 5.12 in. (130 mm)
 J: 10.87 in. (276 mm)
 K: 15.98 in. (406 mm)
 L: 17.56 in. (446 mm)
 M: 1.97 in. (50 mm)

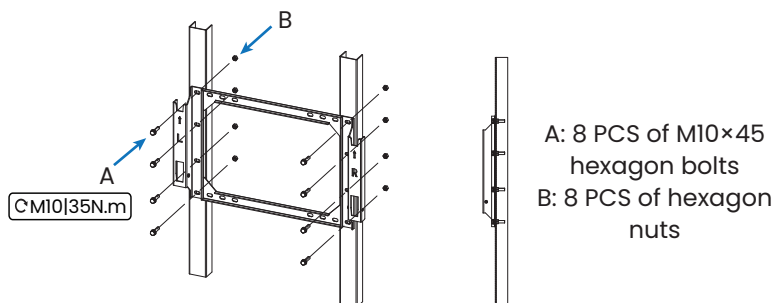
Step 1: Bracket-mounted or Wall-mounted Installation

Method 1: Bracket-mounted Installation

1. Place the hanging plate on a PV bracket, adjust the angle with a level, mark drilling positions, and drill holes with an electric drill (with a $\phi 12$ drill bit).

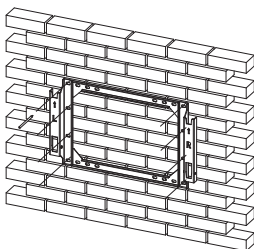


2. Fix the hanging plate with bolts.

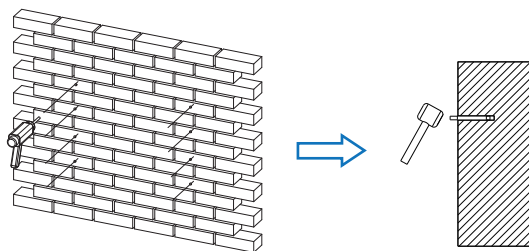


Method 2: Wall-mounted Installation

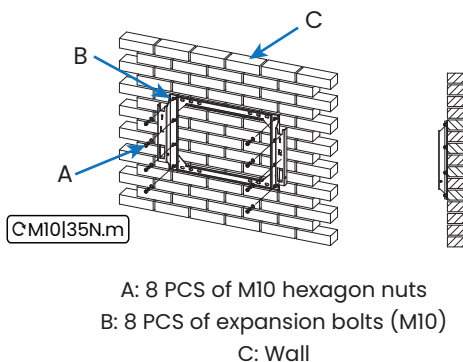
1. Place the hanging plate at the installation site, adjust the angle with a level, and mark drilling positions.



2. Drill holes with a hammer drill (with a $\phi 12$ drill bit), clear holes, insert 8 PCS of expansion bolts (M10 $\times$ 100) into holes, and fix them with a rubber hammer.



3. Fix the hanging plate with expansion bolts.



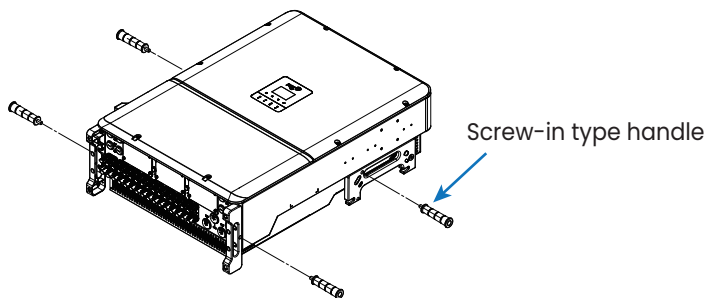
A: 8 PCS of M10 hexagon nuts

B: 8 PCS of expansion bolts (M10)

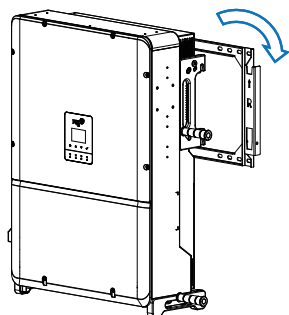
C: Wall

Step 2: Inverter Installation

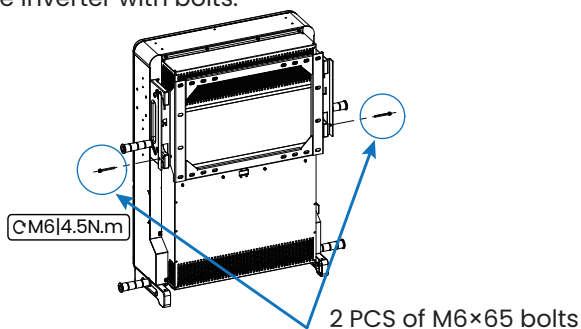
1. Lift the inverter from the package box with 4 PCS of screw-in type handles.



2. Install the inverter on the hanging plate, and ensure that lugs of the inverter are properly matched with slots of the hanging plate.



3. Secure the inverter with bolts.



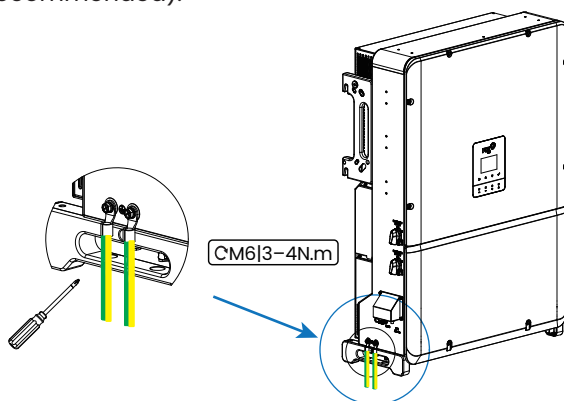
4

Electrical Connection

4.1 Secondary Ground Connection

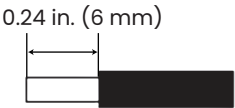
Lock crimped ground cables to ground holes with screw locks on the inverter case, and paint the ground screws and ground terminals to improve anti-corrosion characteristics.

The conductor sectional area of each ground cable is 25–50 mm² (30–35 mm² is recommended).

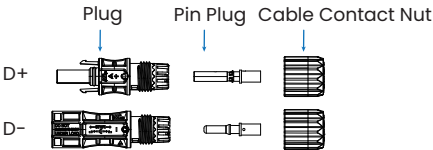


4.2 DC Side Connection

- 1. Turn off the DC switch.
- 2. It is recommended that the DC cable dedicated to photovoltaics (4–6 mm²) be used to connect the PV module.
- 3. Trim about 0.24 in. (6 mm) of insulation from the cable end.



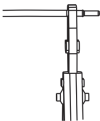
- 4. Separate the DC connector as below.



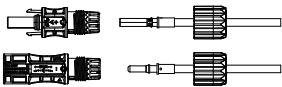
 NOTICE

To ensure the reliability of the DC cable connection and the stable operation of the machine, it is essential to use the matching DC connector.

- 5. Insert multiple cables connected to the PV module into the pin plug and ensure all strands are captured in the pin plug.
- 6. Crimp the pin plug with a crimping plier.



- 7. Route the crimped cable through the nut into the plug. When you hear a “click”, the pin plug is properly clamped in the plug.



4.3 AC Side Connection

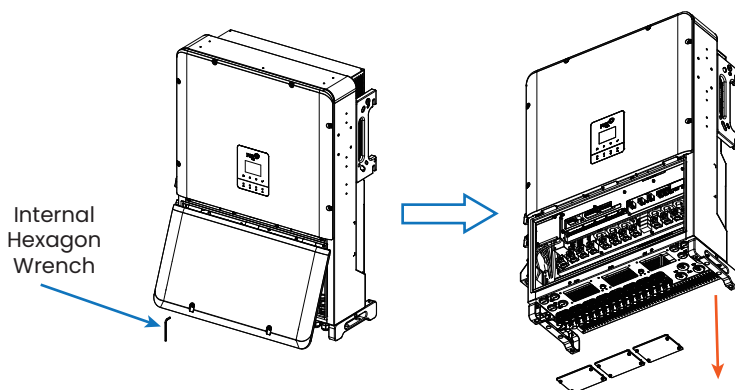
Recommended Specification:

Cable Type	Outer Diameter (in./mm)	Copper Conductor Sectional Area (mm ²)
LOAD/GRID/GEN Cable	0.98 in. – 2.6 in. (25 mm – 66 mm)	L1,L2,L3,(N) cables: 90–150 PE: S/2 (S is a sectional area of LOAD/GRID/GEN phase cable)

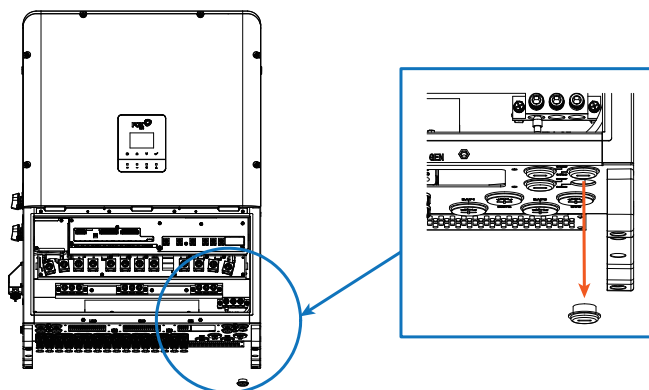
NOTICE

1. Select cables of different specifications based on the actual on-site load and power demand. Ensure that the cable cross-sectional area meets the actual current-carrying capacity requirements.
2. Do not strip or cut cable wires inside or near the lower enclosure. Before routing multi-core cable wires into the lower enclosure, check and remove any broken or damaged cable strands at the cable ends. Loose strands may fall into the enclosure and cause a short circuit.

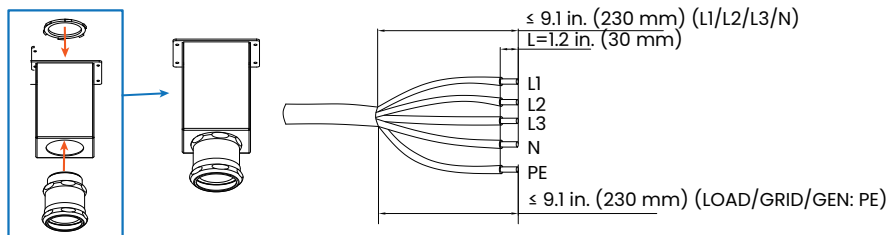
1. Open the lower enclosure with a 0.2 in. (5 mm) internal hexagon wrench. Open the breaker and prevent accidental reclose. Use a Phillips screwdriver to remove the bottom cover for wiring, and keep the removed screws for subsequent installation of the waterproof cover.



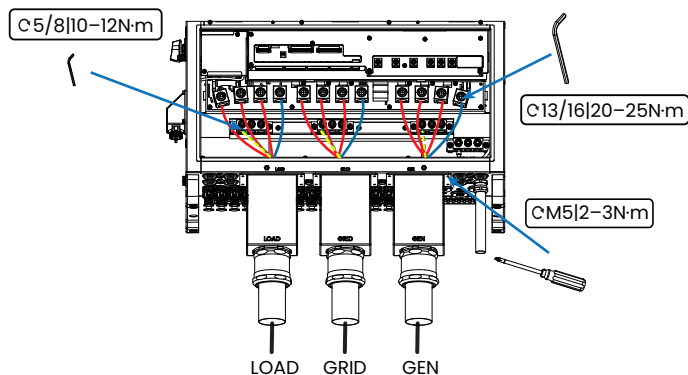
2. Remove the COM8 sealing cover.



3. Fix the cable gland and waterproof cover. Strip the cable insulation layer, then pass the cable through the cable gland.



4. Install the conduits. Route the LOAD/GRID/GEN cables through the corresponding conduits and tighten them to the respective terminals with 0.31 in. (8 mm) and 0.4 in. (10 mm) internal hexagon wrenches. Then secure the waterproof boxes to the enclosure with a screwdriver and M5×16 screws.

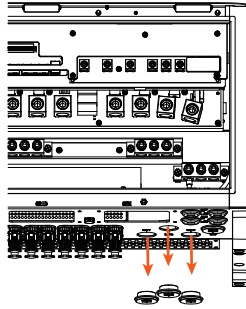


NOTICE

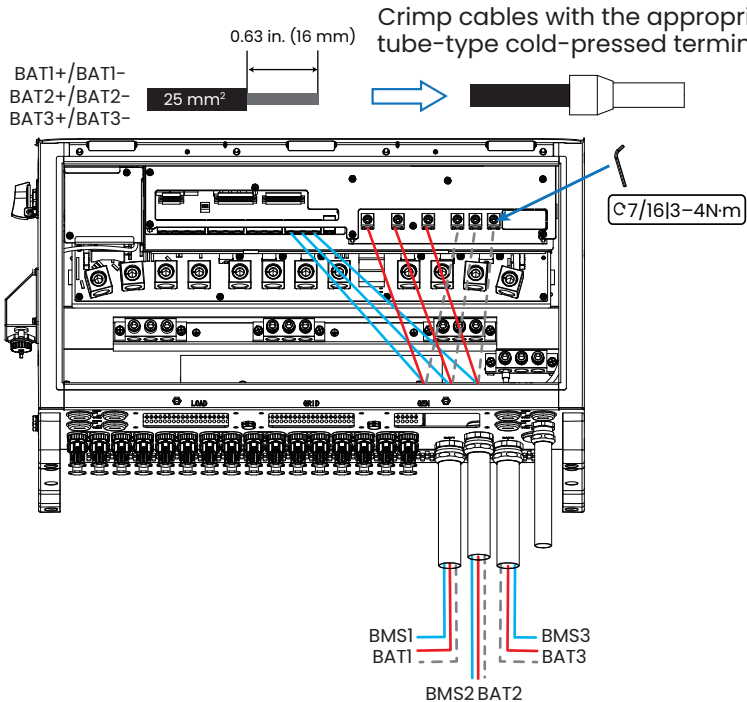
The cable glands and conduits shall be provided by the client.

4.4 Battery Side Connection

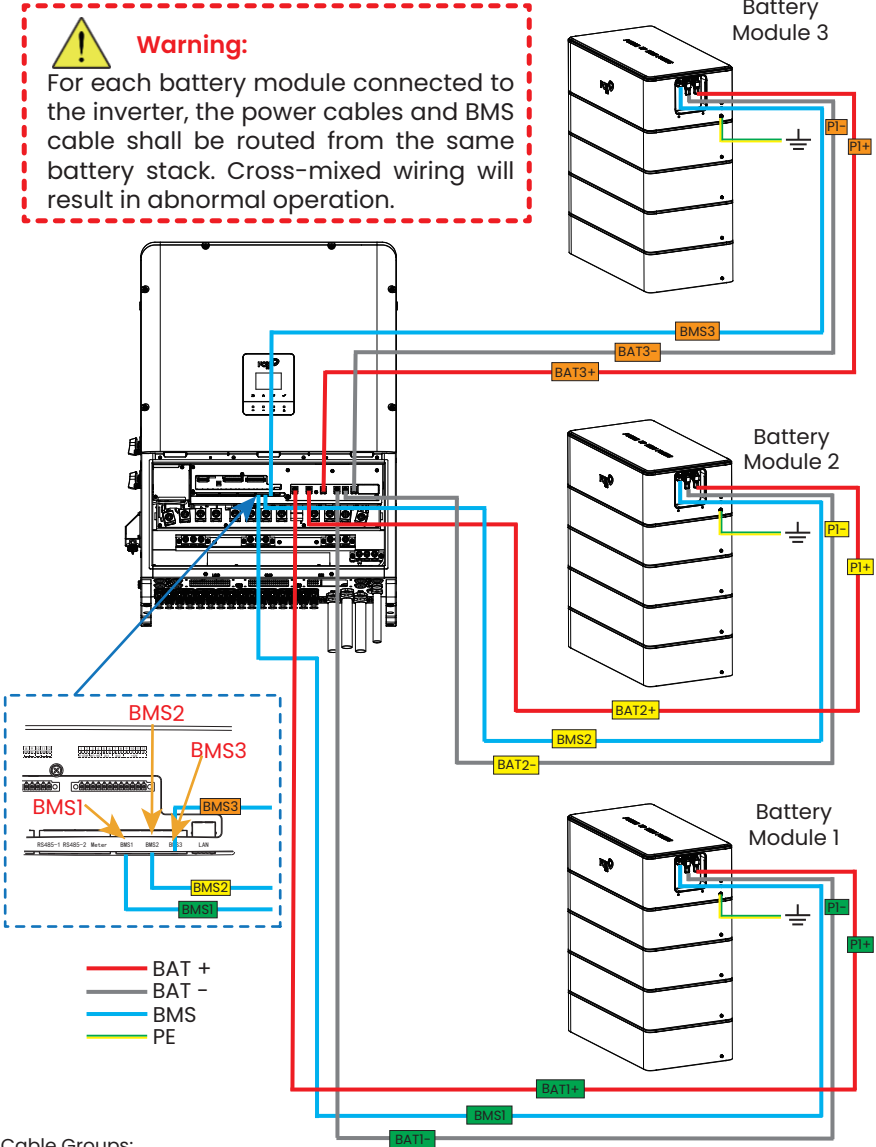
1. Remove the sealing covers of BAT1, BAT2, BAT3.

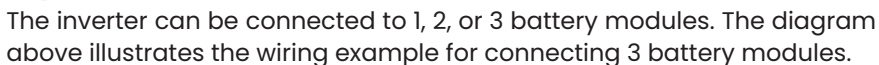


2. Install the cable glands and conduits. After stripping the battery power cables, thread both the power and communication cables through the corresponding conduits. Then, use a 0.2 in. (5 mm) internal hex wrench to securely fasten the power cables to the appropriate terminals, and insert the communication cables into their respective communication interfaces.



Each battery module (BAT1, BAT2, BAT3) is independently connected to the inverter via power cables and dedicated BMS communication lines. All BMS lines (BMS1–BMS3) are directly connected to the inverter to allow individual monitoring and control.



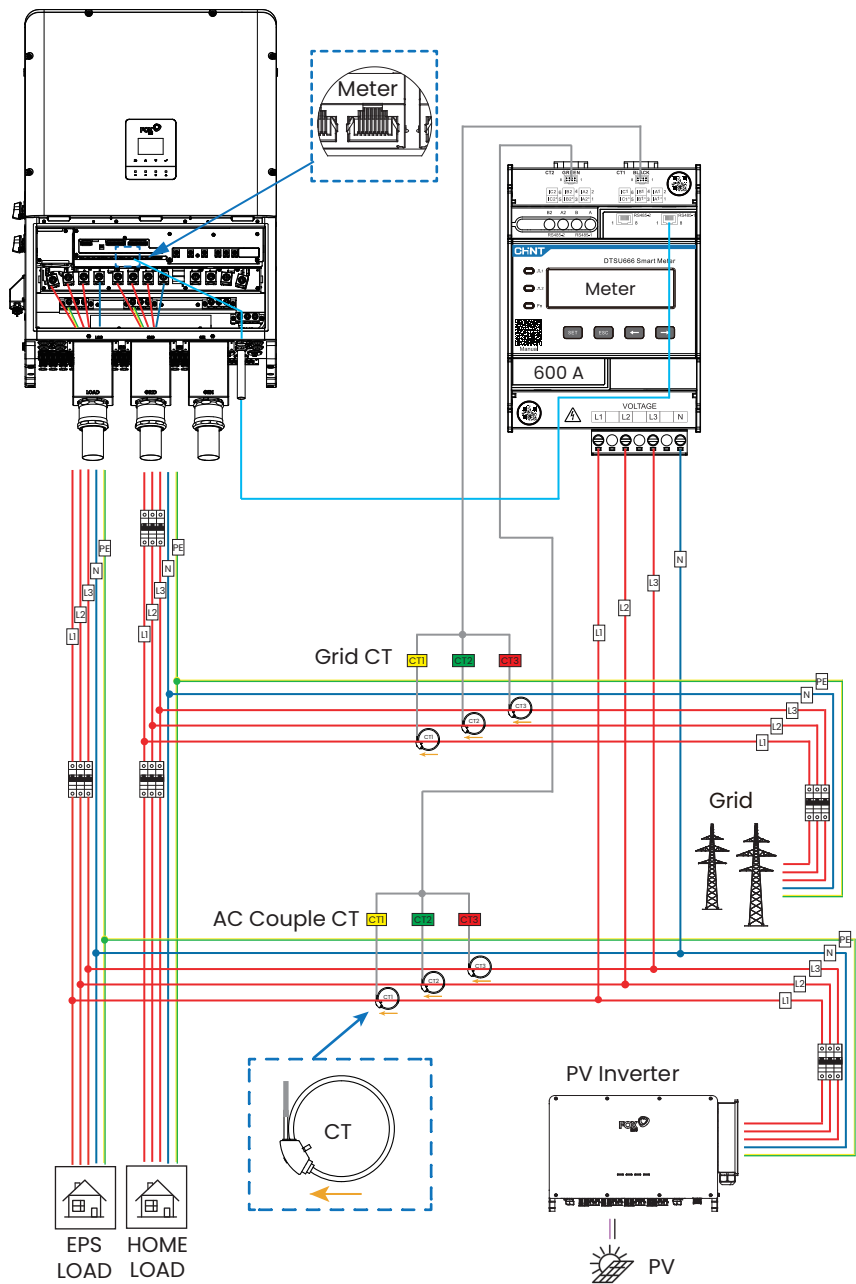


Grid Meter Connection



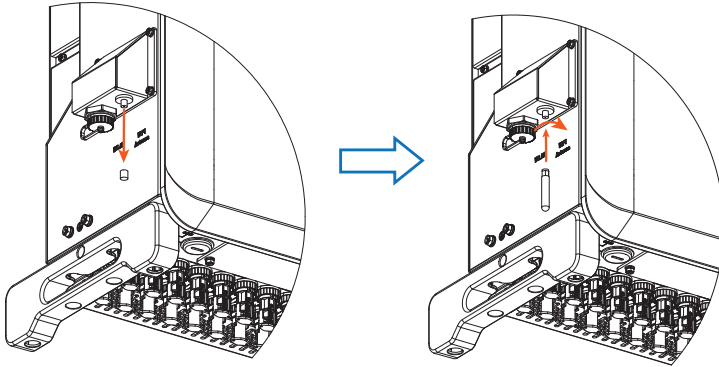
The inverter is equipped with a 600 A CHNT smart meter, which must only be used with the CT supplied in the accessory kit. Do not use CTs of other models, as this may result in operational failures.

AC Couple Meter Connection



4.6 Antenna Connection

Remove the antenna sealing cap, and screw the antenna into the WiFi antenna port on the inverter.



NOTICE

To ensure stable antenna operation, the antenna locking nut must be securely tightened.

5

Startup Procedure

Please follow the steps below to start up the inverter:

1. Ensure the inverter is securely mounted.
2. Confirm that all wiring has been properly completed.
3. Ensure the meter is correctly connected.
4. Ensure the batteries are properly connected.
5. Ensure the load breaker is connected properly (if applicable).
6. Ensure the batteries' Power buttons and switches are turned off.
7. Turn on the PV switch, AC grid breaker, load breaker, and battery breaker. Then, press and hold the batteries' Power buttons for 3 seconds, and release them.

6

App Installation and Internet Configuration

Please scan the QR code on Page 1 to obtain the user manual. For details about App installation and internet configuration, refer to Section 6.6.1 "Monitoring Module" in the user manual.



V1.4

10-203-00615-04-X