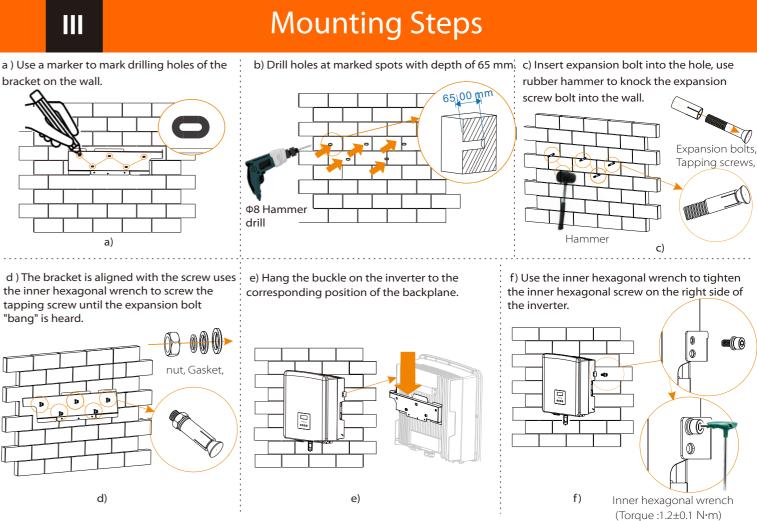


DC Voltage range ≥1100 V DC OT terminals press clamp Utility knife Diagonal plier tool (RJ45) $(0.5~6mm^2)$ X3-Hybrid 5.0KW-15.0KW Diagonal pliers Hexagon keys Tape measure Rubber hammer Crimping Tool Euro terminal crimping tool Spirit level **Mounting Steps Packing List** b) Drill holes at marked spots with depth of 65 mm. c) Insert expansion bolt into the hole, use a) Use a marker to mark drilling holes of the

Hammer drill (Bit Φ8)

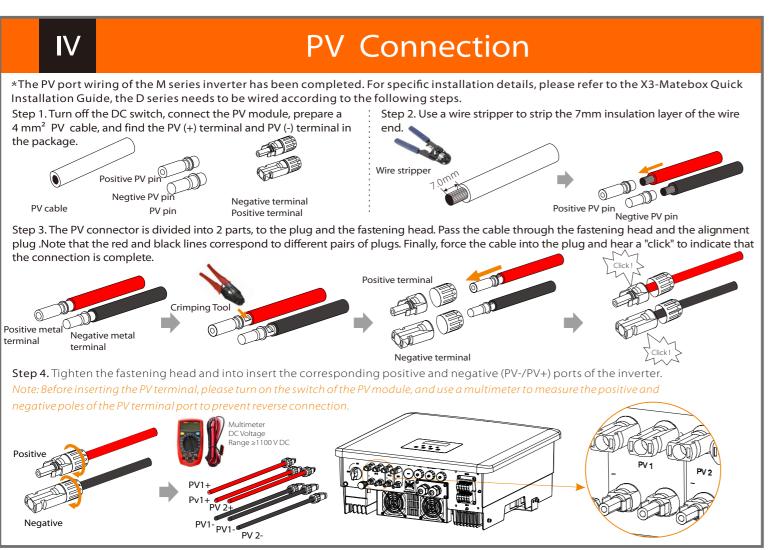




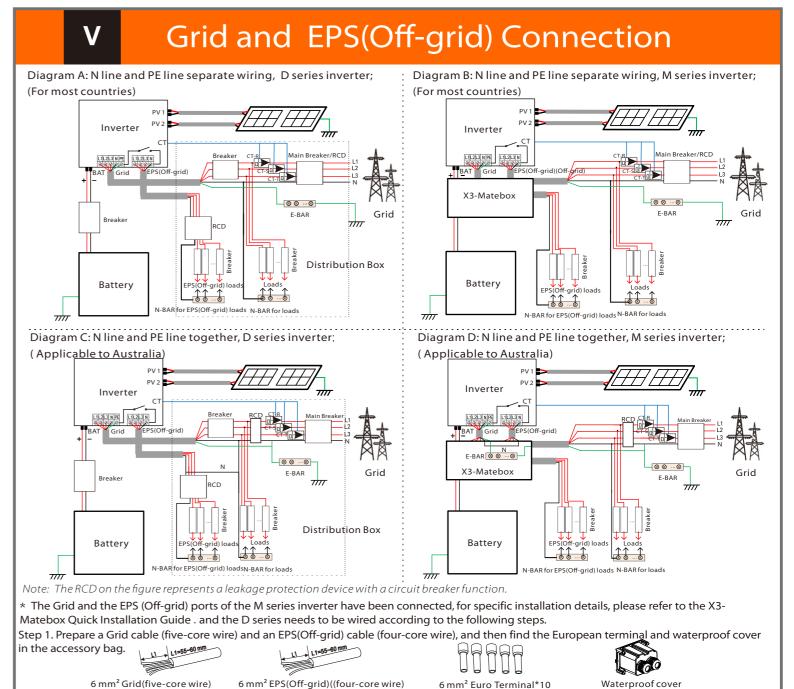
Tool Preparation

Torque screwdriver (Crosshead M5)

Socket wrench set (Hexagon)

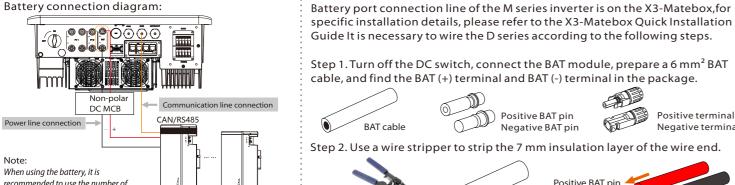


Battery Connection



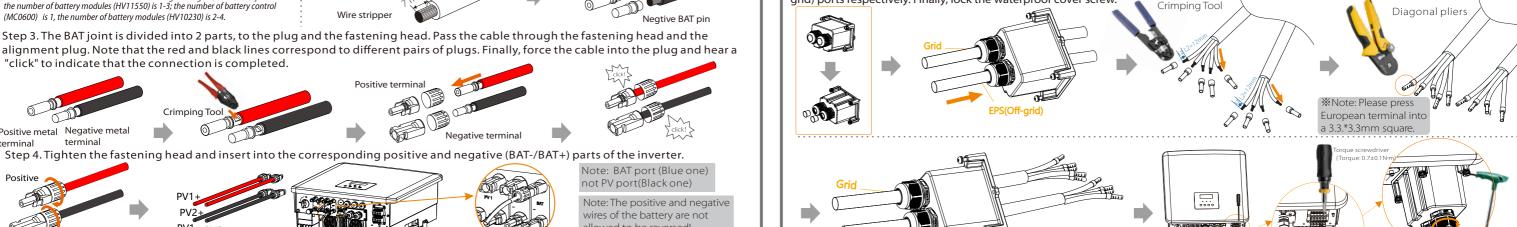
EPS(Off-grid) Cable and Micro-breaker recommended

(Torque: 1.2±0.2N·m)



Step 2. Use a wire stripper to strip the 7 mm insulation layer of the wire end. Step 2: First remove the waterproof housing plug, The GRID and EPS(Off-grid) cables go through the corresponding GRID and EPS(Off-grid) ports of the waterproof cover. Remove the 12mm insulation layer at the end of the wire. Insert the European-style terminals respectively, and make sure

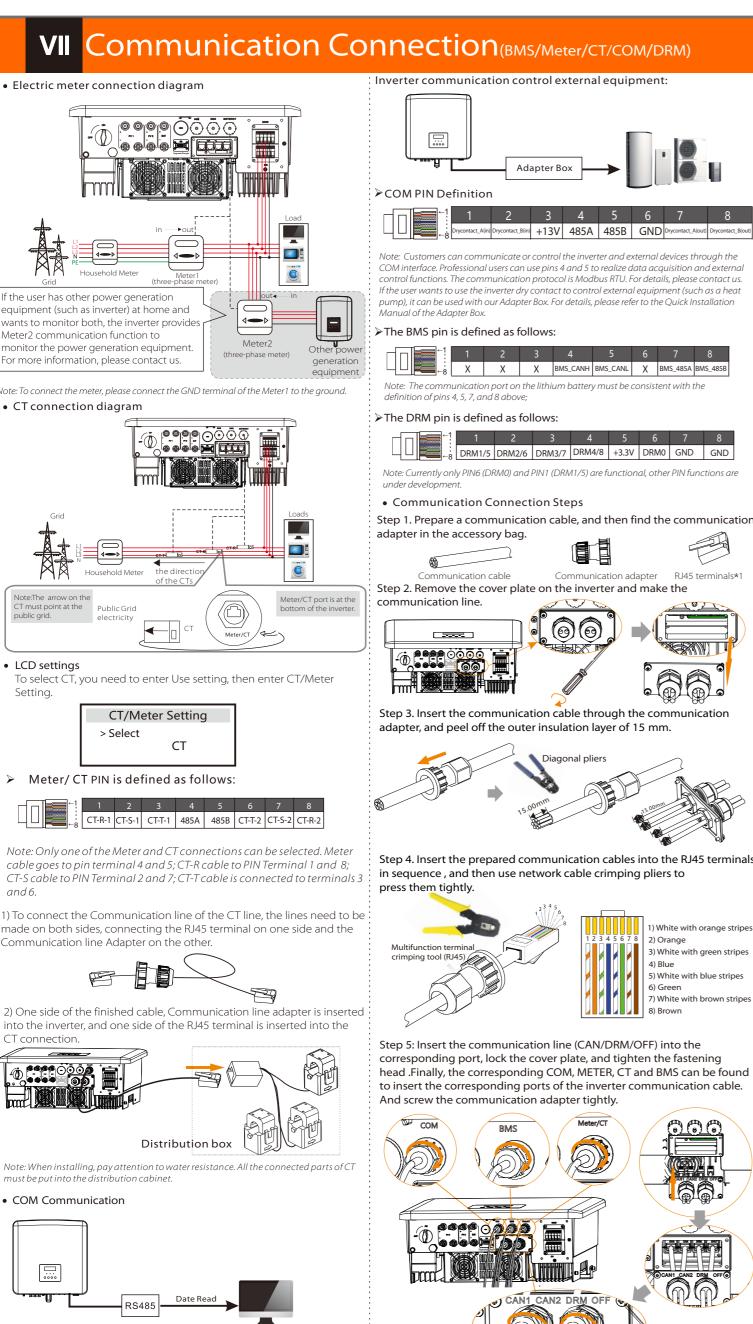
nmended to use the number of that the stripped ends are inserted into the European-style terminal, and use crimping pliers to press tightly. And locked in the Grid and EPS(Offbattery control (T-BAT-5.8) is 1. grid) ports respectively. Finally, lock the waterproof cover screw. the number of battery modules (HV11550) is 1-3; the number of battery control Crimpina Tool

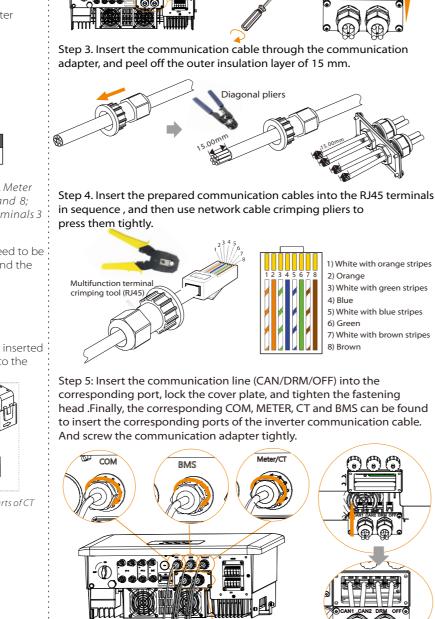


Grid Cable and Micro-breaker recommended

Notice!

After the BMS communication between the battery and the inverter is finished, the battery will work normally.





Adapter Box

+13V

485A | 485B |

DRM1/5 | DRM2/6 | DRM3/7 | DRM4/8 | +3.3V | DRM0 | GND | GND

Communication adapter

GND

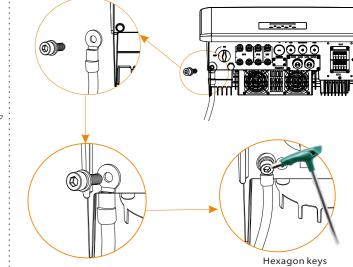
(Torque: 1.2±0.1N·m)

Step 4. Find the ground connection port on the inverter, and Iscrew the Step 1. Prepare a one-core cable (4 mm²), and then find the ground ground wire on the inverter with an M5 Allen key. OT terminal Hexagon socket screws

Grounding Connection(manodatory)

 $^\circ$ The ground wire port of the M series inverter has been connected, and the D series needs to be wired according to the following steps.

terminal in the accessories. One-core cable (4 mm² Step 2. Strip the grounding cable insulation(length"L2), insert the stripped cable into the ring terminal, and then clamp it.



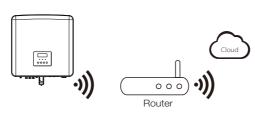
Torque: 0.8±0.2N·m

Crimpina Tool

Monitoring Operation

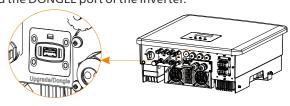
Leaking cable

DONGLE connection diagram



Wireless monitoring accessories connection steps: * DONGLE port connection line of the M series inverter is on the X3-Matebox, for specific installation details, please refer to the X3-Matebox Quick Installation Guide It is necessary to wire the D series according to the following steps.

Step 1. First find the DONGLE port of the inverter.



Step 2. Plug Pocket WiFi into the DONGLE port.

2.Set language

Deutsch

>Meter

6*.Set work mode

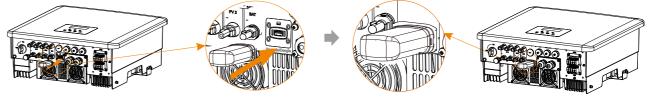
Work Mode

>Mode Select

4.CT/Meter Setting

CT/Meter Setting

Please check the Pocket WiFi user manual/Pocket LAN user manual/4G user manual for more details.





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3.Set the safety standard

Safety

5*.Set export control

Export Control

10000W

Use Value:

7.External ATS

External ATS

Functional Control

5*.Export Control

energy exported to the grid.

This function allows the inverter able to control

There are user value and factory value. The factory

value is default which can not be charged by user. The user value set by installer must be less than the factory

Country

>VDE0126

Start Guide

6*.Set work mode There are 4 work modes for choice. Self use/ Back Up Mode/ Feed in Priority/ Force Time Use All these work modes is available for on-grid condition only: Description eself-use mode is suitable for areas with low reconstruction by the power of PV is sufficient when the power of PV is sufficient tive Charging or Discharge time period: PV will power the battery. When the battery is fully charged, PV will power the load, and then sell the surplus power to the grid. (The inverter will limit the output if Feed-in limit or zero feed-in is needed)

(PV > Battery charge, PV →Battery→Load → Grid) ng time period: PV will power the battery and the remaining power will be taken from the grid when PV is not ugh. PV and grid power will charge the battery and literations power wine be taken in unities in will be a pro-ugh. PV and grid power will charge the battery until it reaches the set value. And then PV will power the los sining power will be taken from the grid when PV is not enough. The battery will not discharge at this time (PV < Battery charge, PV + Grid → Battery) er the loads together. If the power is still not enough, the remain

wer will be taken from the grid. (PV < Load, PV + Battery + Grid → Load) ctive Charging time period: The grid supplies the loads and also can charge the battery.(PV=0,Grid →Load + Battery)
ctive Discharge time period: The battery will power the home loads firstly. If the battery power is not enough, the
emaining power will be taken from the grid. The inverter will enter into the standby state.(PV=0,Battery+Grid→Load)

attery min SOC can be set:10%-100%;Charge battery to min SOC can be set:10%-100% ne Feed-in priority mode is suitable for areas with high feed-in subsidies, but has feed-in power limitation.
) When the power of PV is sufficient
(tive Charging time period: PV power the battery to the set value, and then power the load, and sell the surplus power to
id. If the local grid company limits the grid-connected power of the inverter, the excess energy continues to charge the

PV>Battery, PV→Battery→Load→Grid → Battery)

when the power of PST insulation. Extract the battery and the remaining power will be taken from the grid when PV is not nough. PV and grid power will charge the battery until it reaches the set value. And then PV will power the load and the maining power will be taken from the grid when PV is not enough. The battery will not discharge. (PV < Battery charge, PV + Grid → Battery)

rid. (PV < Load, PV + Battery + Grid → Load) (PV=0, Grid → Load + Battery)

node will maintain the battery capacity at a relatively high level. (Users' setting) to ensure an be used when the grid is off. Customers no need to worry about the battery capacity at the partery min SOC can be set: 30%-100%; Charge battery to min SOC can be set: 30%-100%.

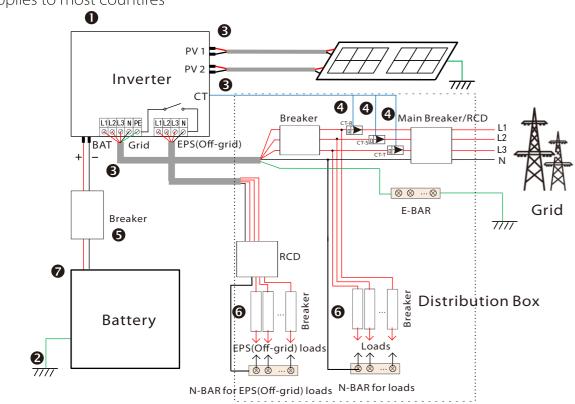
The EPS(Off-grid) mode is used when the po will power the loads firstly, and surplus power will charge to the battery. (PV > Load, PV \rightarrow Load \rightarrow Battery paining power will be taken from the battery (PV < Load, PV+battery \rightarrow Load, \rightarrow Battery

e mode. (PV=0, Battery → Load)

Start Inverter

Start inverter

> After the inverter is checked, the inverter will take the following steps: Applies to most countires



- Make sure that the inverter is fixed on the wall.
- Ensure that all ground wires are grounded.
- Confirm that all DC lines and AC lines are connected.
- Make sure the CT are connected.
- Make sure the battery is well connected.
- **6** Turn on the Load switch and EPS(Off-grid) switch
- Turn on thebattery switch.

Long press Enter for 5 seconds to exit the shutdown mode. Mode is the mode when it is turned off for the first time; factory default: off mode)

Note: The RCD on the figure represents a leakage protection device with a circuit breaker function.

Firmware Upgrading

-In order to upgrade the firmware smoothly, if the DSP and ARM firmware needs to be upgraded, please note that ARM firmware must be upgraded -Make sure that this directory is completely consistent with the above table, do not modify the firmware file name, Otherwise, the inverter may not work

-For the inverter, ensure that the PV input voltage is greater than 180V (upgrade on sunny days), please ensure that the battery SOC is greater than 20% or the battery input voltage is greater than 180V. Otherwise, it may cause serious failure during the upgrade process!

-If the ARM firmware upgrade fails or stops, please do not unplug the U disk and power off the inverter and restart it. Then repeat the upgrade steps.

1) Please check the inverter version and prepare a U disk (USB 2.0/USB3.0) and personal computer before upgrading.

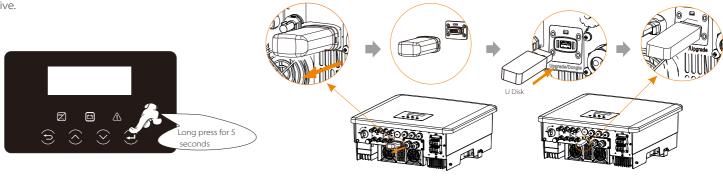
2) Please contact our service support through service to obtain the firmware, and store the firmware in the U disk according to the following path.

Update:

For ARM file: "update \ARM\618.00406.00_HYB_3P_ARM_V1.13_1220.usb"; For DSP file: "update\DSP\618.00405.00_HYB_3P_DSP_V1.14_1215.usb";

Step 1. Please save the "Upate" firmware in your U disk first, and press the "Enter" button on the machine screen for 5 seconds to enter the shutdown mode. Then unscrew the waterproof cover, insert the U disk into the "upgrade" port at the bottom of the inverter.

Step 2. Find the "Upgrade" port of the inverter, unplug the monitoring module (Pocket WiFi/ Pocket 4G/Pocket LAN) by hand, and insert the USB flash



Step 3. LCD operation, enter the upgrade interface "update", as shown below(a): Please press the up and down keys to select ARM, then press the bottom of the page to select "OK", press the enter key to enter the software version interface;



Step 4. Please confirm the new firmware version again and select the firmware to upgrade. The upgrade takes about 20 seconds. (d) When it is completed, the LCD screen returns to the "Update" page.

===:Update Selection ==== ARM >DSP	=== Update DSP File === >618.00405.00_HYB_ 3P_DSP_V1.14_1215.hex	connect	===Update(DSP) === DSP Erasing	==== Update(DSP) ====: Upgrading25%	=== Update(DSP) === Upgrade Successful
(f)	(a)	(h)	(i)	(i)	(k)

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