

Quick Installation Guide

X3-Hybrid 5.0KW-15.0KW

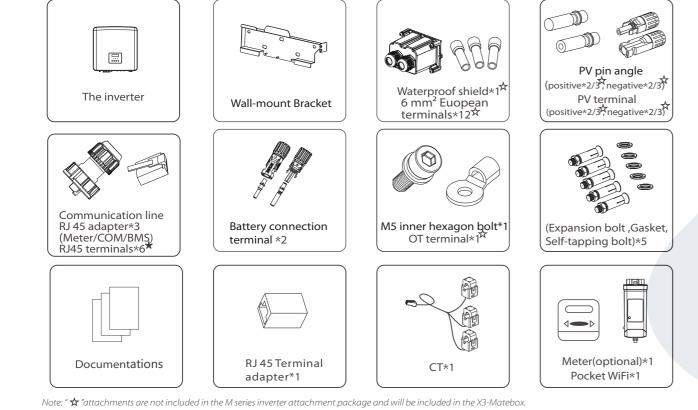


IV

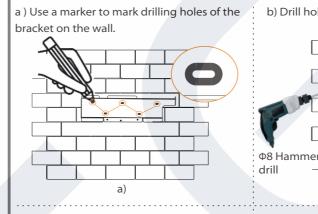
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Packing List



" \star " the inverter in Australia needs to be connected to DRM, which is 1 more communication line adapter than that in other countrie: The number of "D" and "E" are different for different power sections. For 5-6kW inverters, the number of positive and negative PV terminal and PV pin angle is 2, 2, 2 and 2 respectively. For 8-15kW inverters, the number of positive and negative PV terminal and PV pin angle is 3, 3, 3 and 3 respectively

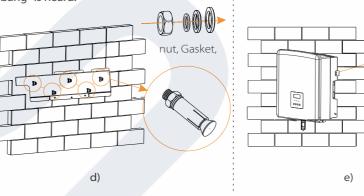


Mounting Steps

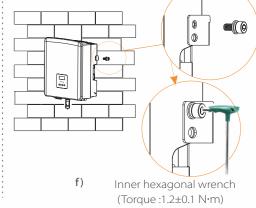
b) Drill holes at marked spots with depth of 65 mm c) Insert expansion bolt into the hole, use rubber hammer to knock the expansion 65<u>100</u> screw bolt into the wall.

Expansion bolt Tapping screw Hamme c)

d) The bracket is aligned with the screw uses : e) Hang the buckle on the inverter to the the inner hexagonal wrench to screw the corresponding position of the backplane. tapping screw until the expansion bolt "bang" is heard.



f) Use the inner hexagonal wrench to tighten the inner hexagonal screw on the right side of the inverter



Grid

Grid

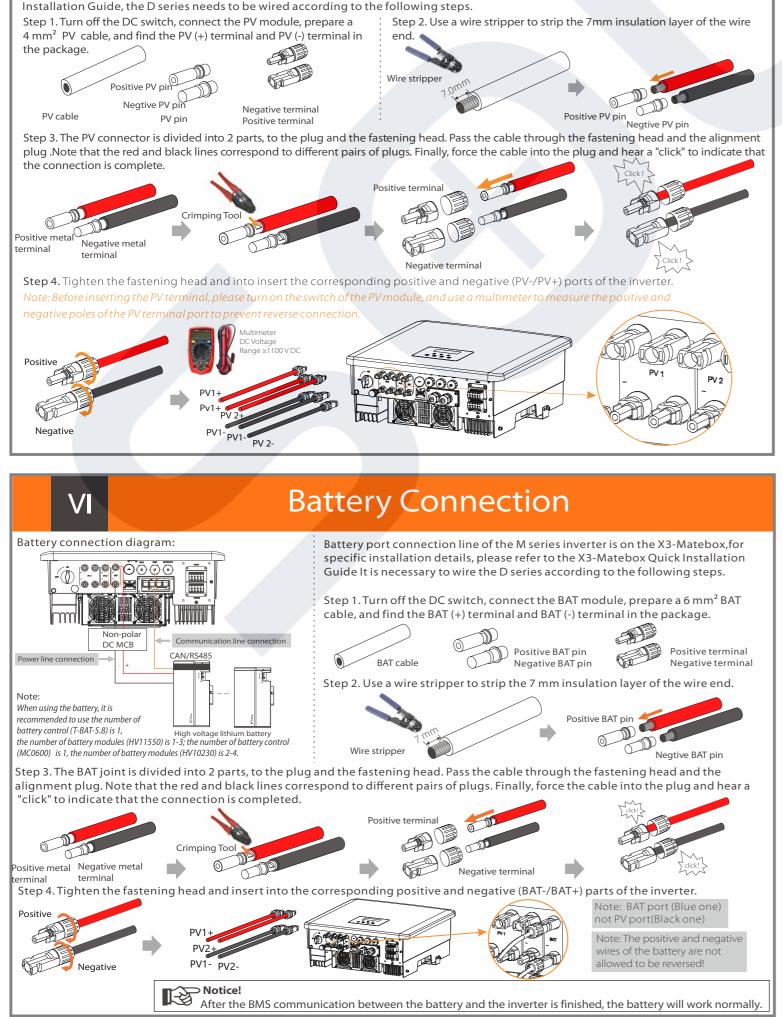
Grid and EPS(Off-grid) Connection

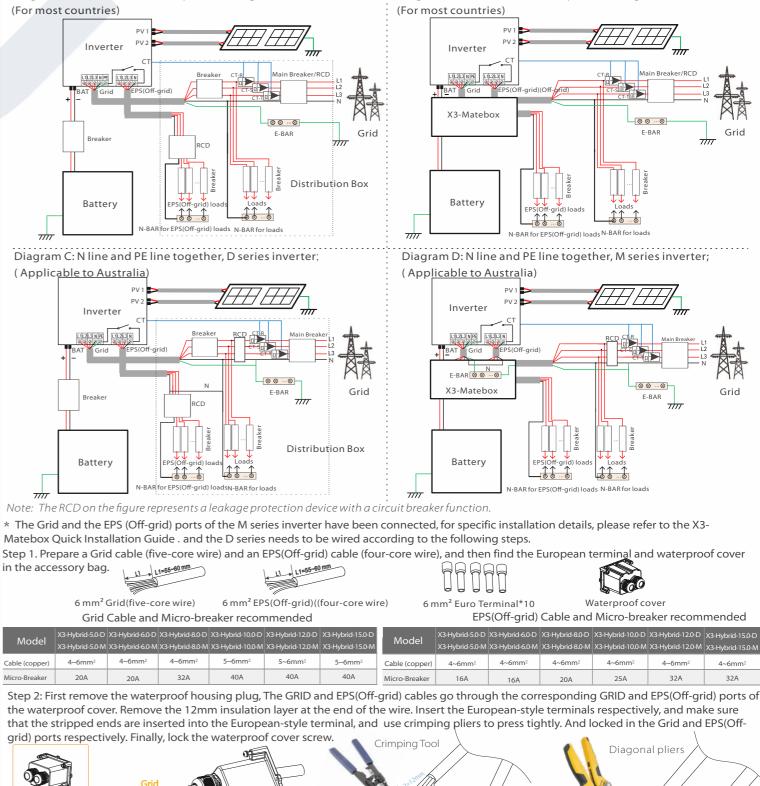
Diagram A: N line and PE line separate wiring, D series inverter; (For most countries)

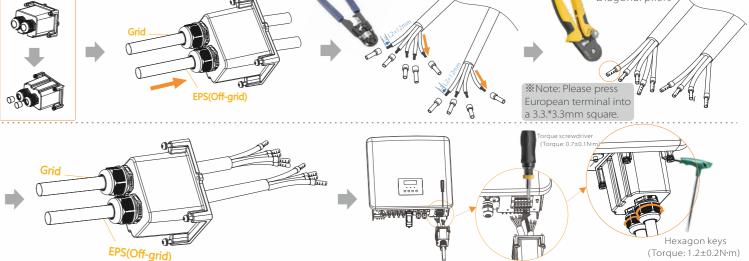
Diagram B: N line and PE line separate wiring, M series inverter;

PV Connection

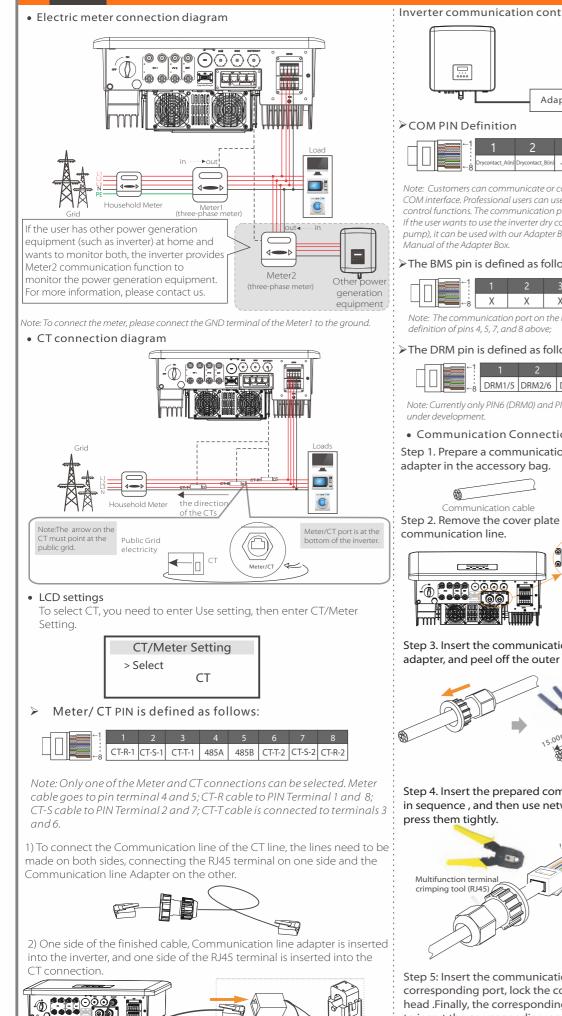
*The PV port wiring of the M series inverter has been completed. For specific installation details, please refer to the X3-Matebox Quick



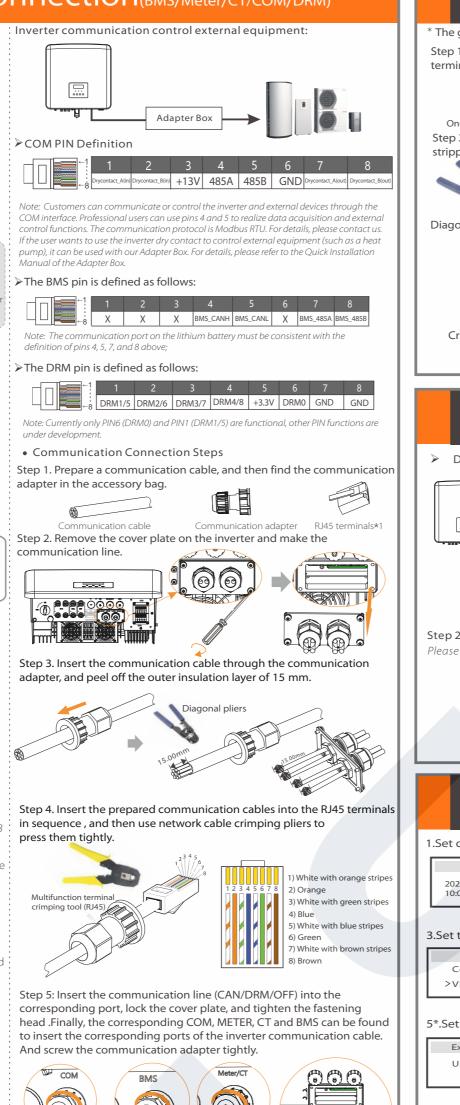




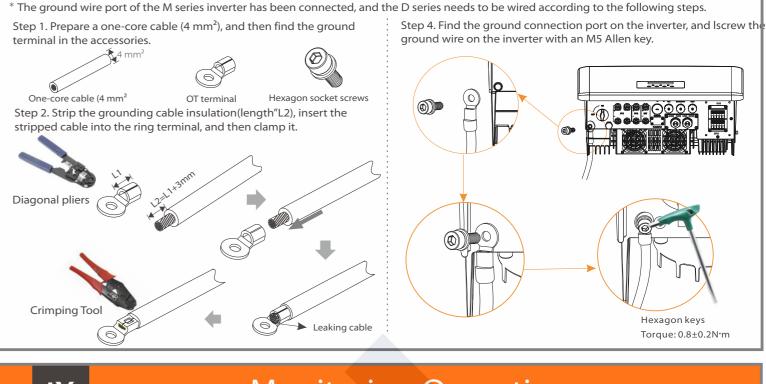




Distribution box Note: When installing, pay attention to water resistance. All the connected parts of CT must be put into the distribution cabinet. COM Communicatio



Grounding Connection(manodatory) VIII



IX DONGLE connection diagram •)) 000 Router

Monitoring Operation

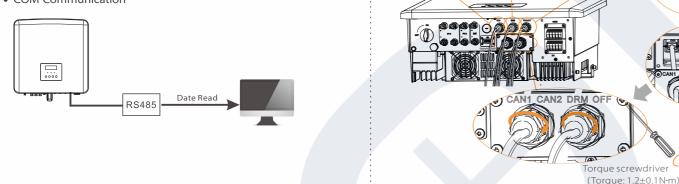
Wireless monitoring accessories connection steps: * DONGLE port connection line of the M series inverter is on the X3-Matebox, for specific installation details, please refer to the X3-Matebox Quick Installation Guide It is necessary to wire the D series according to the following steps. Step 1. First find the DONGLE port of the inverter. 2.5.5 /

Step 2. Plug Pocket WiFi into the DONGLE port.



X Start Guide							
.Set date time	2.Set language	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:					
2021 ->11 <-10	English	Name Description					
10:05 3.Set the safety standard Safety Country >VDE0126 5*.Set export control	Deutsch Italian 4.CT/Meter Setting CT/Meter Setting CT >Meter 6*.Set work mode	The self-use mode is suitable for areas with low feed-in subsidies and high electricity prices. ④ When the power of PV is sufficient Active Charging or Discharge time period: PV will power the battery. When the battery is fully charged, PV will power the loa 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) ④ When the power of PV is insufficient Active Charging time period: PV will power the battery and the remaining power will be taken from the grid when PV is not enough. PV and grid 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) Active Charging time period: PV Halt will power the loads together. If the power is still not enough, the remaining power will be taken from the grid. (PV < Load, PV + Battery + Grid → Load) ④ Without PV power Active Charging time period: The grid supplies the loads and also can charge the battery power is not enough, the remaining power will be taken from the grid. The inverter will enter into the standby state (PV=0, Battery+Grid→Load) Buttery min SOC can be set: 10%-100%Charge battery to min SOC can be set: 10%-100%.					
Export Control	Work Mode	The Feed-in priority mode is suitable for areas with high feed-in subsidies, but has feed-in power limitation. ① When the power of PV is sufficient					
Use Value:	>Mode Select	Active Charging time period: PV power the battery to the set value, and then power the load, and sell the surplus power to the grid. If the local grid company limits the grid-connected power of the inverter, the excess energy continues to charge the					
10000W	self use	battery. (PV>Battery, PV→Battery→Load→Grid → Battery)					
7.External ATS External ATS Functional Control		Active Discharge time period: PV will power the loads firstly, and surplus power will feed-in to the grid. (PV < Load, PV → Load → Grid)					





Enable Disable 5*.Export Control This function allows the inverter able to control

energy exported to the grid. 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 value.

③ Without PV power iod :The grid will po (PV=0, Grid → Load + Battery) The battery will power the home loads firstly. If the l

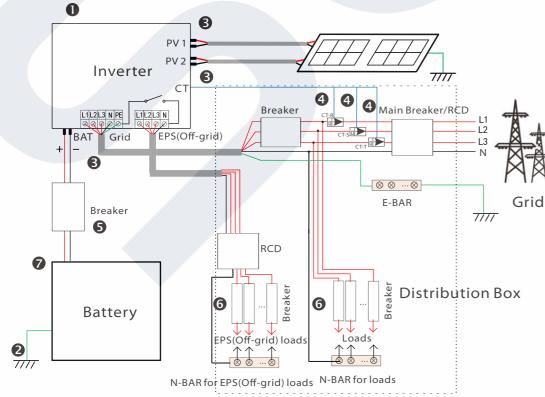
- 100%; Charge battery to min SOC can be set: 30%mode is suitable for areas with frequent power outages. Sam Backup
- ode will maintain the battery capacity at a relatively high level. (Users' setting) to e n be used when the grid is off. Customers no need to worry about the battery capa ttery min SOC can be set:30%-100%; Charge battery to min SOC can be set: 30%-1 mode n SOC can be set: 30%-100 he EPS(Off-arid) mode is used when the p
- When the power of PV is sufficient
- vill power the loads firstly, and surplus power will charge to the battery. (PV > Load, PV ightarrow Load ightarrow Battery (Off-grid) When the power of PV is insufficient
 - The remaining power will be taken from the battery. (PV < Load, PV+battery \rightarrow Load \rightarrow Battery Without PV po
 - e mode. (PV=0, Battery → Load)

Start Inverter

Start inverter

XI

> 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.
- e Ensure that all ground wires are grounded.
- Onfirm that all DC lines and AC lines are connected.
- Make sure the CT are connected.
- Make sure the battery is well connected.
- 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)

XII

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 first, then DSP firmware!

-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.

Upgrade preparation

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.

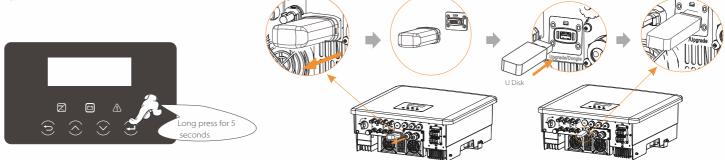
Update:

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";

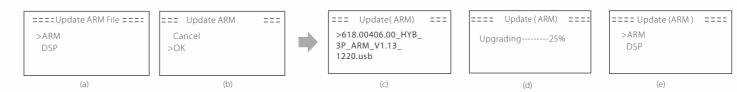
Upgrade steps

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 drive.



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.

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)	(g)	(h)	(i)	(j)	(k) 614.00898.00

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