

Note: The positive and negative wires of the battery are not allowed to be reversed! Note!

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

plug (+), DC plug (-) in the accessory bag.

BAT plug (+)

Model X3-Hybrid-50-D X3-Hybrid-60-D X3-Hybrid-60-D X3-Hybrid-100-D X3-Hybrid-100-D X3-Hybrid-150-D X3-Hybrid-50-D X3-Hybrid-50-D X3-Hybrid-50-D X3-Hybrid-50-D X3-Hybrid-50-D X3-Hybrid-100-D X3-Hybrid-150-D X3-Hybrid-50-D X3-Hybrid-50-D X3-Hybrid-50-D X3-Hybrid-50-D X3-Hybrid-100-D X3-Hybrid-150-D X3-Hybrid-50-D X3-Hybrid-100-D X3-Hybrid-150-D X3-Hybrid-150-D X3-Hybrid-50-D X3-Hy

Step 1. Prepare a Grid cable (five-core wire) and an Off-grid cable (four-core wire), and then find the European terminal and waterproof cover in the

10AWG Euro Terminal*10

Waterproof cover

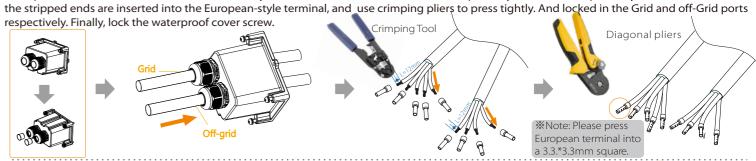
Off-grid Cable and Micro-breaker recommended

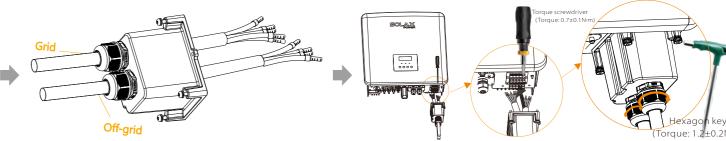
10AWG Off-grid((four-core wire)

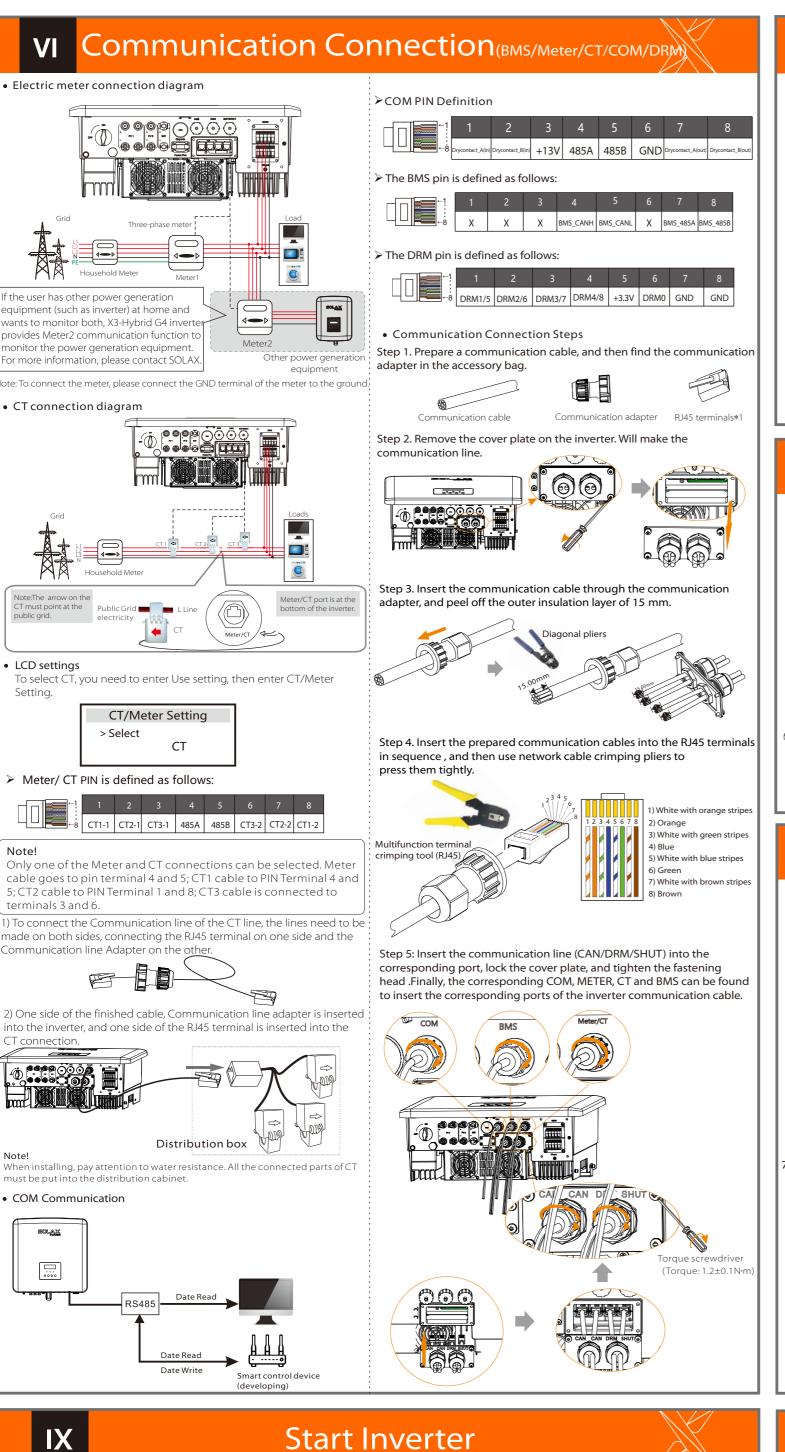
accessory bag.

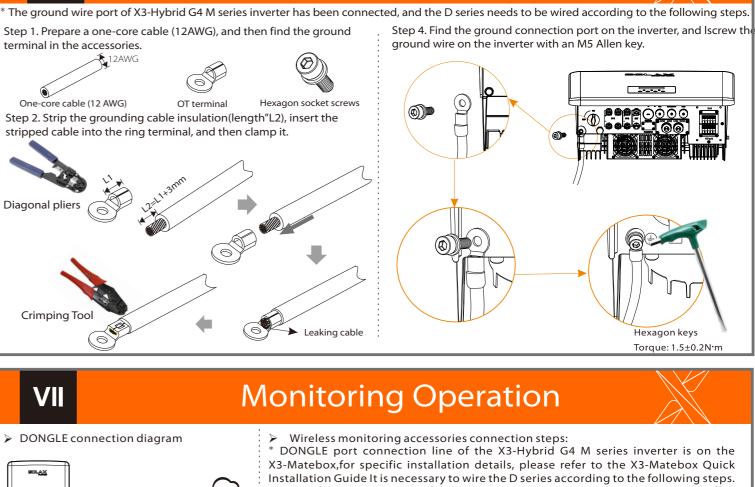
10AWG Grid(five-core wire)

Grid Cable and Micro-breaker recommended

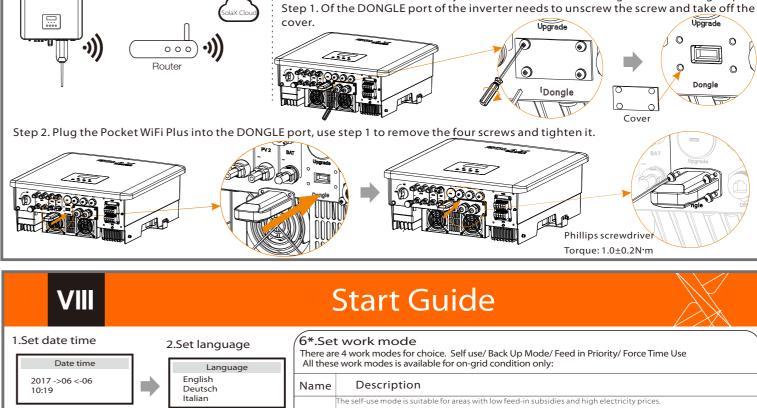


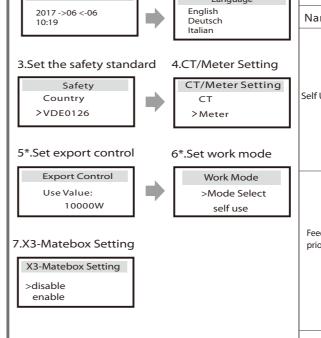






Grounding Connection(manodatory)





attery min SOC can be set:10%-100%. he Feed-in priority mode is suitable for areas with high feed-in subsidies, but has feed-in power limitation When the nower of PV is sufficient. power has been limited ,the surplus power can charge the battery. (PV > Load, PV \rightarrow Load \rightarrow Grid \rightarrow Battery) ctive Discharge time period: PV will power the loads firstly ,and surplus power will feed-in to the grid When the power of PV is insufficient active Charging time period :PV will power the loads first pattery will not discharge.(PV > Load, PV + Grid → Load) ver the loads firstly, the remaining power will be taken from the grid. The Discharge time period: PV+BAT will power the loads together. If the power is still not enough, the remaining power v e taken from the grid. (PV<Load, PV + Battery + Grid \rightarrow Load) eriod :The grid will power the home loads and also charge the battery $(PV=0, Grid \rightarrow Load + Battery)$ Active Discharge time period :The battery will power the home loads firstly. If the battery power is not end maining power will be taken from the grid. The inverter will enter into the standby state. (PV=0, Battery+Grid → Loa mode will maintain the battery capacity at a relatively high level. (Users' setting) to ensure that the emergency load

Active Charging or Discharge time period: PV will power the loads firstly, and surplus power will charge to the battery

If the battery is fully charged, then sell the surplus power to the grid;(The inverter will limit the output if Feed-in limi

active Charging time period: PV will power the loads firstly ,the remaining power will be taken from the grid , the lattery will not discharge at this time. (PV > Load ,PV + Grid \rightarrow Load)

Active Discharge time period: PV+BAT will power the loads together. If the power is still not enough, the remaining

Active Charging time period: The grid supplies the loads and also can charge the battery.(PV=0 ,Grid →Load + Battery)
Active Discharge time period: The battery will power the home loads firstly. If the battery power is not enough ,the

maining power will be taken from the grid . The inverter will enter into the standby state. (PV=0, Battery+Grid→Lo

zero feed-in is needed) (PV > Load ,PV → Load → Battery → Grid)

ver will be taken from the grid. (PV < Load, PV + Battery + Grid \rightarrow Load)

(2) When the power of PV is insufficient

can be used when the grid is off. Customers no need to worry about the battery capacity. Battery min SOC can be set:30%-100%.Backup mode SOC adjustment range :30%-100%; in Backup mode SOC-min under off-grid condition is 10%, which cannot be modified. The off-grid mode is used when the power grid is off. .System will provides emergency power through PV and batt to supply power to the household loads. (Battery is necessary) When the power of PV is sufficient Off-grid PV will power the loads firstly, and surplus power will charge to the battery.(PV>Load, PV → Load → Battery) ② When the power of PV is insufficient

The remaining power will be taken from the battery. (PV \leq Load, PV+battery \rightarrow Load \rightarrow Battery) 3 Without PV power de.(PV=0, Battery → Load)

-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

Firmware Upgrading

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.

-For X3-Hybrid G4, ensure that the PV input voltage is greater than 180V (upgrade on sunny days), please ensure that the battery SOC is greater than 20%

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

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

Update:

5*.Export Control

energy exported to the grid

This function allows the inverter able to control

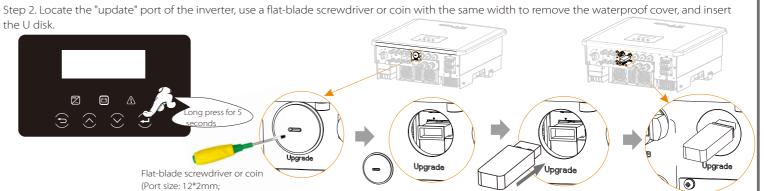
There are user value and factory value. The factory

value is default which can not be charged by user. The

user value set by installer must be less than the factory

For ARM file: "update \ARM\618.00406.00_Hybrid_X3G4_ARM_V1.01.0710.usb"; For DSP file: "update\DSP\618.00405.00_Hybrid_X3G4_DSP_V1.01.0710.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 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(DSP) ====Update(DSP) === Update(DSP) === Update DSP File === ARM >618.00405.00 Hybrid Upgrade Successful DSP Erasing->DSP X3G4_DSP_V1.01_07

614.00499.01

Start inverter

Applies to most countires

> After the inverter is checked, the inverter will take the following steps:

X3-Hybrid G4 BAT Grid 8 Breaker 6 RCD 7 Distribution Box Battery 0 N-BAR for off-grid loads N-BAR for loads

- 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 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)

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