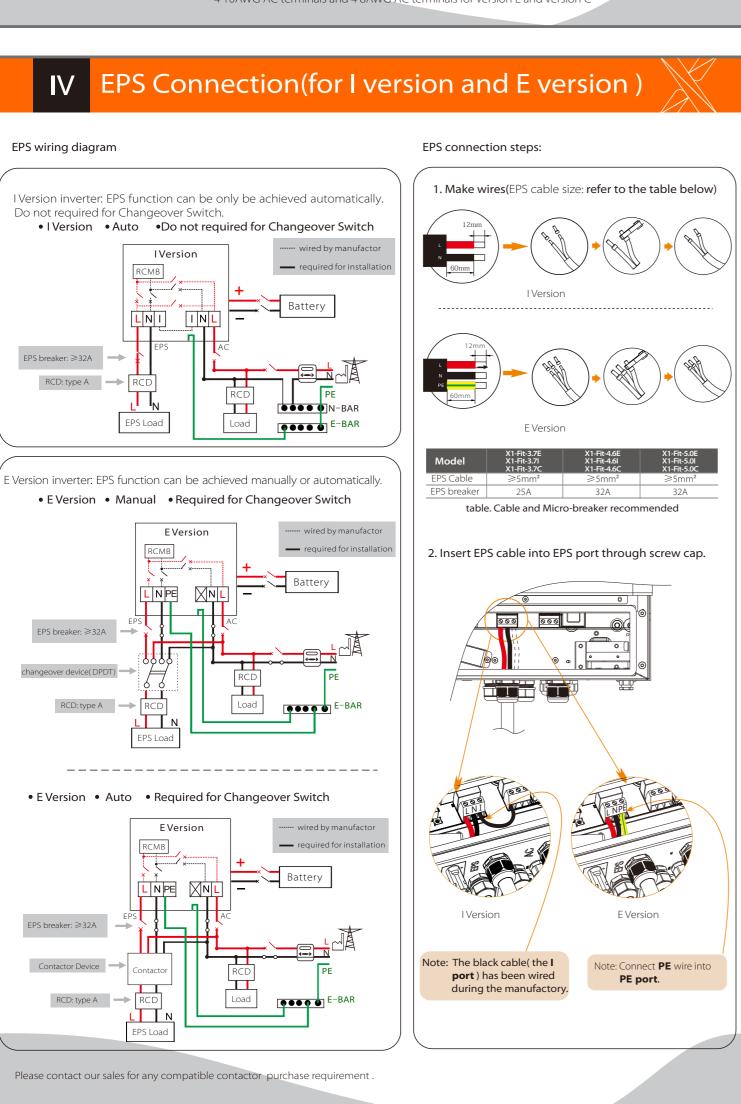
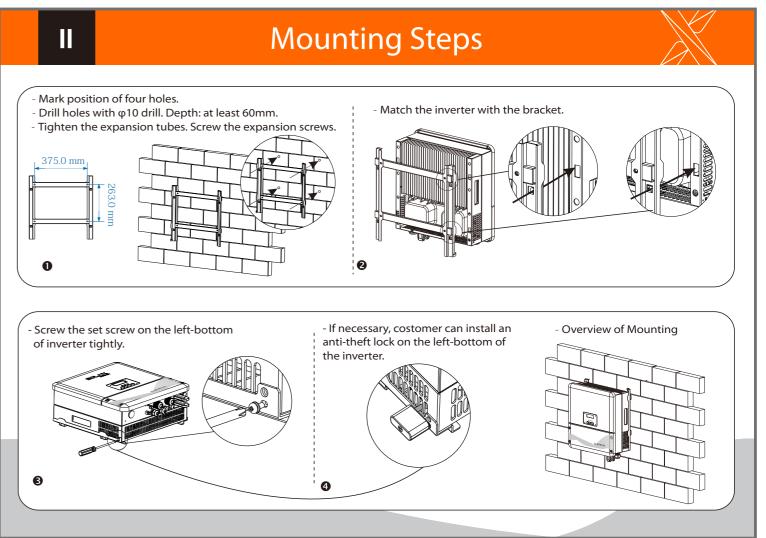


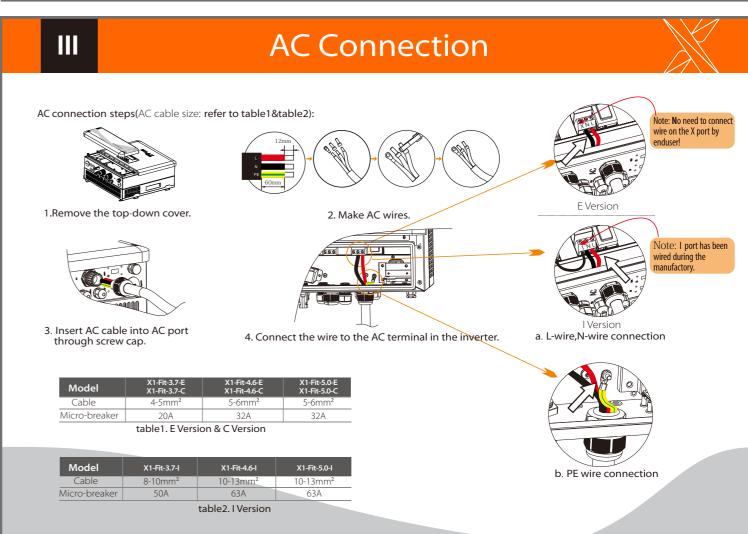
Quick Installation Guide

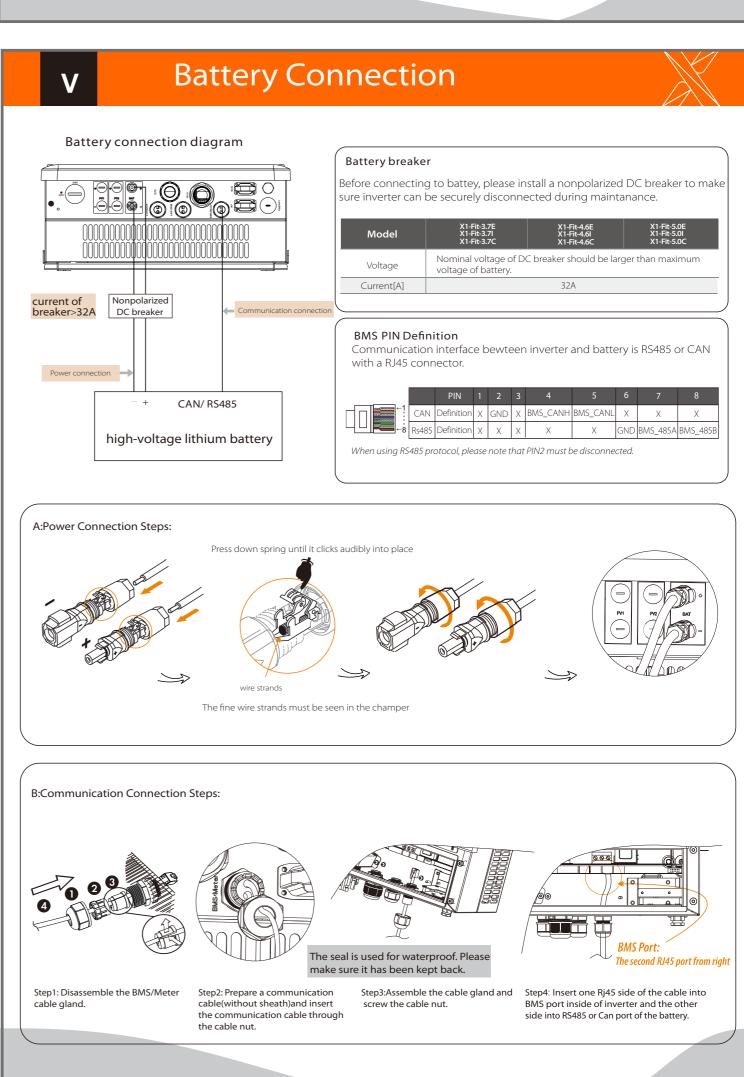
X1-Retro Fit 3.7KW-5.0KW







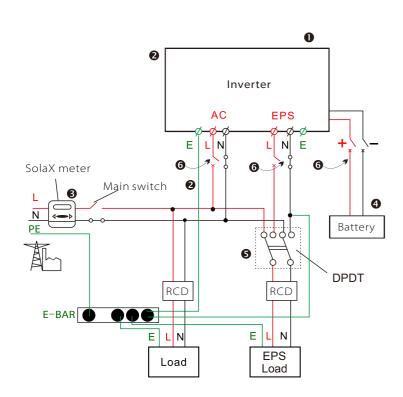




Earth Connection&Start Inverter Earth Connection Steps(mandatory): Cable size: 12AWG

ring terminal

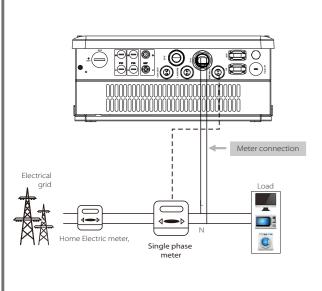
Start inverter



- Check the inverter is fixed well on the wall.
- 2 Make sure all the AC wirings are completed.
- **3** Make sure the meter is connected well.
- 4 Make sure the battery is connected well.
- **6** Make sure the external EPS contactor is connected well. (if needed)
- **6** Turn on the AC switch, EPS switch and battery switch.
- Press the "Enter" key for five seconds to exit Off Mode. (The mode is factory defaulted as Off Mode)

Inverter will start up automatically when the battery is dicharging. Check the status of indicators and LCD screen. The left indicator should be blue and the indicator screen should display the main interface.

Meter Connection



Meter connection diagram

Meter PIN Definition

Communication interface bewteen inverter and meter is RS485 with a RJ45 connector.



Meter connection steps Step1. Disassemble the BMS/Mete cable gland. **Step2.** Prepare a communication cable(without sheath) and insert the communication cable through the cable nut. **Step3.** Assemble the cable gland and screw the cable nut. The seal is used for waterproof. Please make sure it has been kept back. Step4. Insert one side of Rj45 cable into Meter port inside of the inverter and the other side into RS485 port of the meter.

Meter Port: The first RJ45 port from right side

Firmware Upgrading

Please ensure the inverter is steadily powered on.

Inverter must connect PV panels and keep the battery on through whole procedure of upgrading. Please prepare a PC and an U-disk.



Make sure the PV input power is more than 150V (operate the upgrade on a sunny day), otherwise it may result in serious failing during upgrading. If the upgrading is broken off during operation, please ensure the inverter is steadily powered on and reinsert

Upgrading Steps:

Step1. Please contact our service support to get the update files, and extract it into your U-disk as follow:

"update\ARM\618.00050.00_Hybrid_X1G3_Manager_VX.XX_XX-XX.usb";

 ${\it "update \ DSP \ 618.00084.00_Hybrid_X1G3_Master_VX.XX_XXXXXXXX"};$ (Note: Vx.xx is version number, xxxxxxxx is file complation date. Don't modify the program file name, or it may cause that the inverter can't work anymore!)

Step 2. Press the "Enter" key for 5 seconds to enter Off Mode. Then unscrew the waterproof lid and insert U-disk into the "upgrade" port at the bottom of the inverter.

Step3. The LCD will be shown as the picture below. Then press up and down to select the one that you want to upgrade and press "OK" to confirm to upgrade.

> ====== Update ====== ===== Update(DSP) ===== >ARM Updating-----25% DSP

Step4. After the upgrade is finished, the LCD will display "succeed" (only for DSP upgrades), please remember to pull off the U-disk, screw the waterproof lid and press the "Esc" to return to the Main interface. Then press the "Enter" key to exit Off Mode.

Start Guide

1.Set language

VII

Language English Deutsch Italian

2.Set date time

2017 ->06 <-06 10:19

3.Set the safety standard

Safety Country >VDE0126

4.Set export control

Export Control

Use Value: 10000W 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 setting by installer must be less than the factory value

5.Set work mode

There are 5 work modes for choice. ·Self use/

Work Mode

>Mode Select

self use

·Remote Contol/ ·Back Up Mode/ ·Feed in Priority/ ·Force Time Use/ Parameter The external generator generated power will be used to supply the local loads firstly, then to charge the battery. The redundant power will export to Self Use the public grid. (default)

When there is no external generator supplied, battery will discharge for local loads firstly, and grid will supply power when the battery capacity is not

This work mode applies to the area where suffering from blackout regularly.

It allows external control device to make the inverters remote cluster control Remote Contol through LAN port on the inverter in this work mode. Battery will stop discharing to keep higher capacity when the grid is on. Only when the gird is off and the power generated is not enough, battery will start Back Up Mode

The priority of inverter output power is: feeding to the grid \longrightarrow supplying the load \longrightarrow charging the battery. Feed in Priority This work mode applies to the area with high feed-in tariff. In this work mode the charging and discharging time can be set flexibly, and it

to discharge to keep the emergency load working normally.

also allows to choose whether charge from the grid or not.

6.Set EPS system(For E & I Version only)

X1-Retro Fit inverter with E Version and I Version can work on the EPS mode.

EPS parameters can be set as below.

EPS system - "Yes" means you choose to shut down the warning function. > Mute: Frequency: 50Hz

- "Mute" means you can set the warning of system which has entered EPS mode. "No"means there will be a buzzing and it is the default value.

Besides ,if the buzzing is sharp, it means EPS output is over loads. "Frequency "here can be set 50Hz or 60Hz please based on correlative loads.

7.Set relay control(This function is being developed)

Relay Control

>Relay1 Setting >Relay2 Setting

Relay Control is an optional function which can control designated load intelligently by consuming the surplus energy when feed in power reaches

This function can only be achieved with solax product "Smart Plug". For specific operation, please refer to "Smart Plug user manual".

Monitoring Operation

Solax provides two ways for users to choose: WiFi(optinal) and Fthernet(I AN)

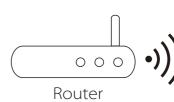
WiFi(optinal)

Inverter provides a Wifi port which can collect data from inverter and transmit it to monitoring-website via a Pocket WiFi. (Purchase the product from supplier if needed)

Diagram





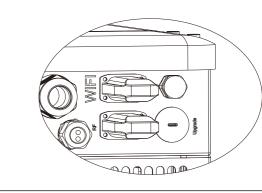


WiFi Connection Steps:

Step 1. Plug Pocket Wifi into "WiFi" port at the bottom of the inverter.

Step2. Build the connection between the inverter and router.

Step3. Create an user account online.(Please check the Pocket WiFi user manual for more details.)

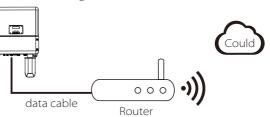


Ethernet(LAN)

LAN communication is the standard communication interface. It can transmit the data between the router and inverter via the

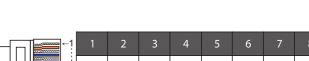
Application Occasion

This function is appliable for the below situation: When the wifi signal is too weak to transmit data, user can use LAN port for the monitoring with a data cable. Note: The wifi module still needs to be connected when using LAN connection.



LAN PIN Definition

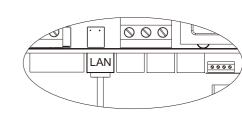
Communication interface bewteen inverter and router is RS485 with a RJ45 connector.



LAN Connection Steps:

Please refer to BMS connection steps (for user manual page 32) for LAN connection. Please kindly noted the PIN definition and port position will be slightly different





LAN Port: The Fourth RJ45 port from right side

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