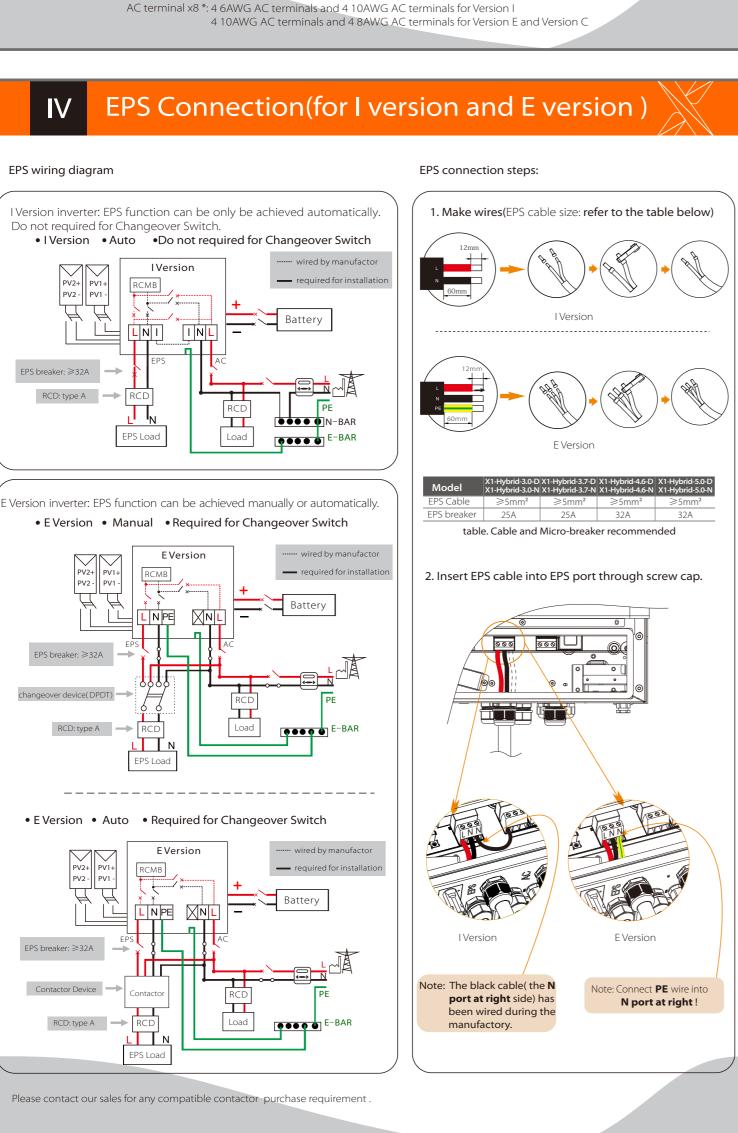
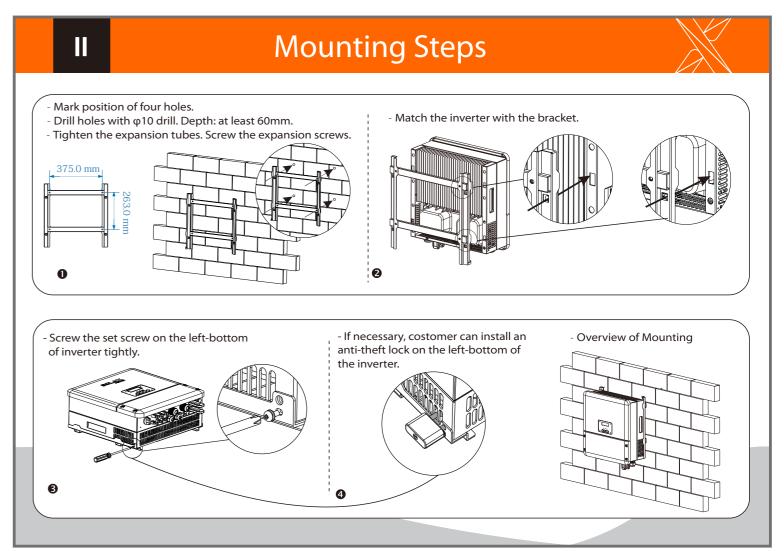


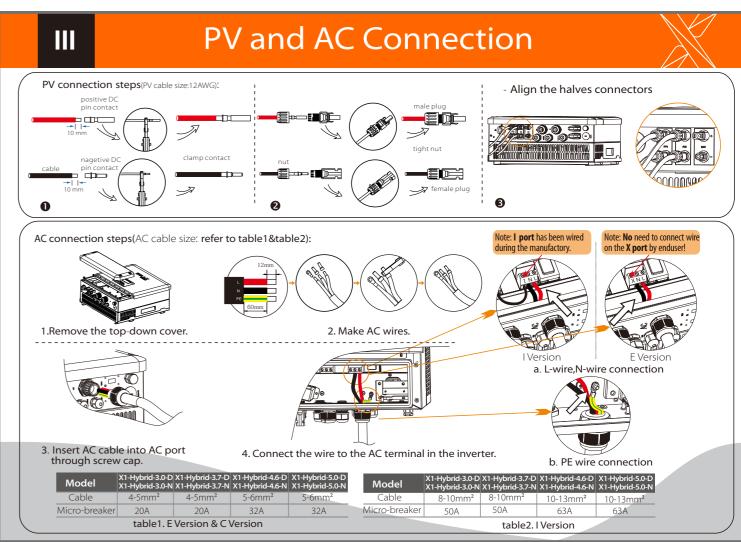
Quick Installation Guide

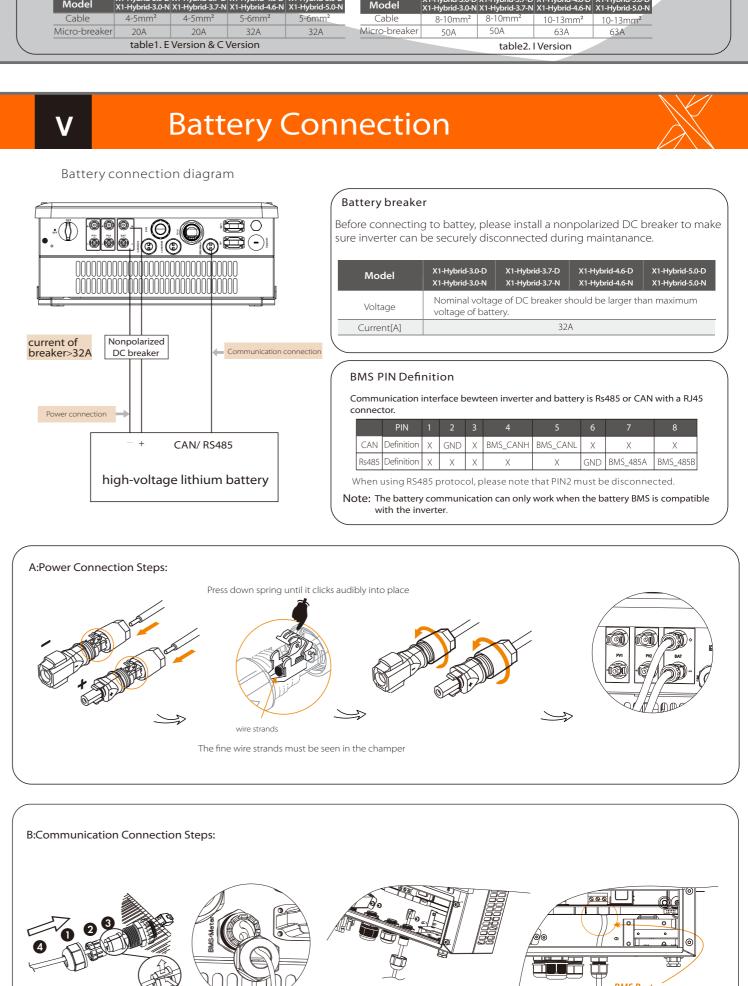
X1-Hybrid 3KW-5KW











The seal is used for waterproof. Please

screw the cable nut.

Step3:Assemble the cable gland and

make sure it has been kept back.

Step2: Prepare a communication

cable(without sheath)and insert

the communication cable through

Step1: Disassemble the BMS/Meter

cable gland.

The second RJ45 port from right

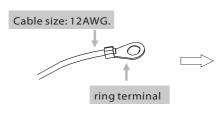
Step4: Insert one Rj45 side of the cable into

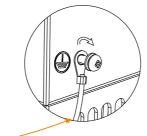
BMS port inside of inverter and the other

side into RS485 or Can port of the battery.

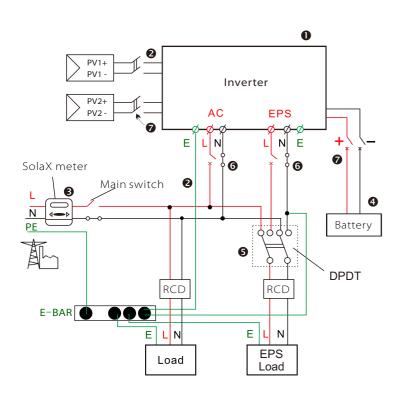
Earth Connection&Start Inverter







Start inverter

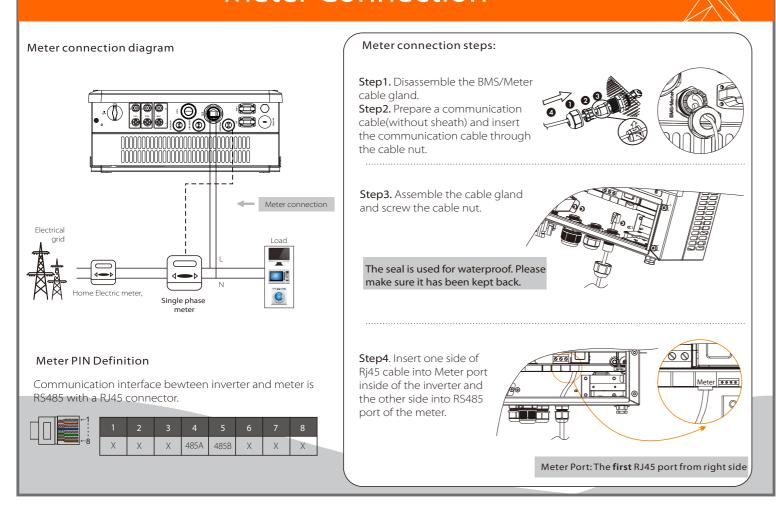


- Check the inverter is fixed well on the wall.
- 2 Make sure all the DC wirings and AC wirings are completed.
- **3** Make sure the meter is connected well.
- 4 Make sure the battery is connected well.
- **6** Make sure the external EPS contactor is connected well. (if needed)
- **6** Turn on the AC switch and EPS switch.
- **7** Turn on the PV/DC switch and battery switch.
- **8** 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 PV panels generate enough energy or 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



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 ====== >ARM DSP

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

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 4 work modes for choice. Self use/ Back Up Mode/ Feed in Priority/ Force Time Use

Feed in Priority

Parameter Comment The PV generated power will be used to supply the local loads firstly, then to charge the battery. The redundant power will export to the public grid. Self Use When there is no PV supplied, battery will discharge for local loads firstly, and (default) grid will supply power when the battery capacity is not enough.

Work Mode >Mode Select self use

Battery will stop discharing to keep higher capacity when the grid is on. Only when the gird is off and PV energy is not enough, battery will start to Back Up Mode discharge to keep the emergency load working normally This work mode applies to the area where suffering from blackout regularly. The priority of inverter output power is:

feeding to the grid \longrightarrow supplying the load \longrightarrow charging the battery.

In this work mode the charging and discharging time can be set flexibly, and it Force Time Use also allows to choose whether charge from the grid or not.

This work mode applies to the area with high feed-in tariff.

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

50Hz

- X1-Hyrbid inverter with E Version and I Version can work on the EPS mode.
- EPS parameters can be set as below.
- "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.
- "Yes" means you choose to shut down the warning function.

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

EPS system

> Mute: Frequency:

>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".

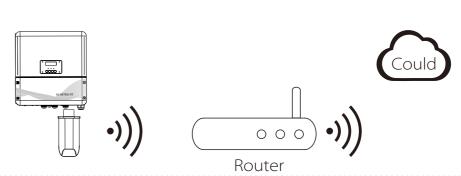
Monitoring Operation

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

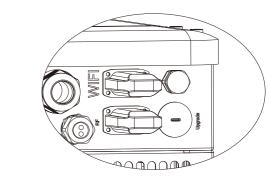


WiFi Connection Steps:

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.

data cable

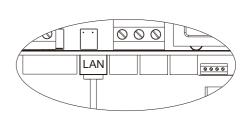
Router



LAN Connection Steps:

Please refer to BMS connection steps (for user manual page32) 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