



# Quick Installation Guide

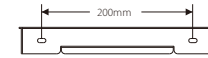
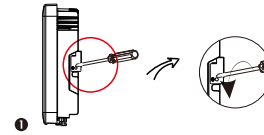
X1 Series 0.6KW-3.6KW

II

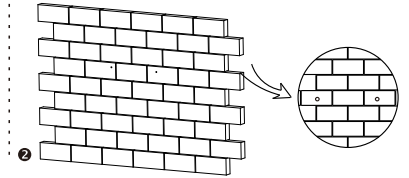
## Inverter Installation



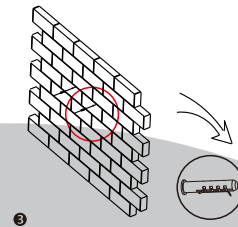
- Unscrew the bracket from the back of the inverter.
- Mark the position of the two holes.



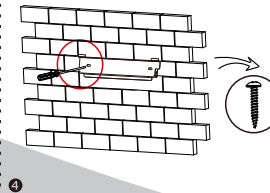
- Drill holes with  $\phi 10$ .
- Depth: at least 50mm.



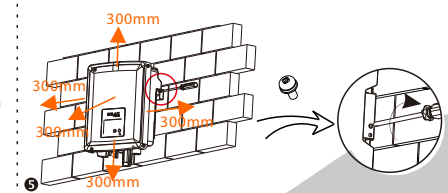
- Tighten the expansion tubes.



- Screw the expansion screws.

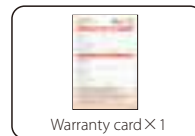
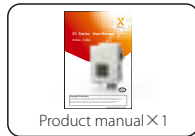
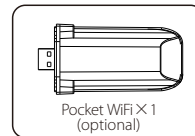
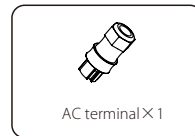
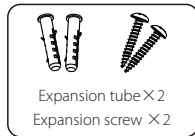
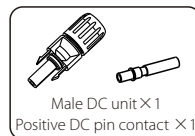
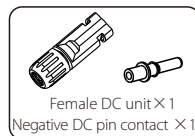
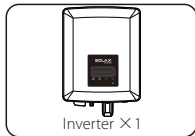


- Match the inverter with the bracket.
- Screw the cross recessed screw on the right side.



I

## Packing Lists



Note:  
1) Please refer to the appropriate instruction manual for the usage of optional accessories.

III

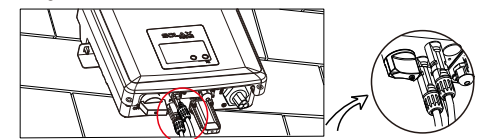
## PV Connection



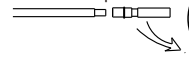
Cable size: 12 AWG  
trip length:



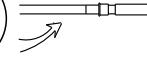
-Align the two halves connectors.



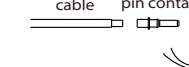
positive DC pin contact



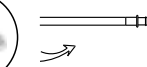
male plug



negative DC pin contact



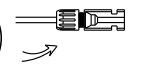
torque: 1.2±0.1Nm



nut



female plug

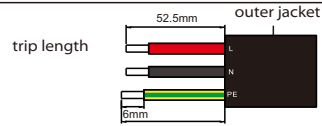


clamp contact

tight nut

# IV

## AC Connection



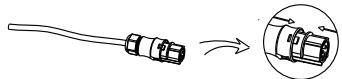
| Model                       | X1-0.6/0.7/1.1/1.5 | X1-2.0 | X1-2.5/3K/3.3K | X1-3.6K |
|-----------------------------|--------------------|--------|----------------|---------|
| L,N cable(mm <sup>2</sup> ) | 2.5-6              | 2.5-6  | 2.5-6          | 4-6     |
| PE cable(mm <sup>2</sup> )  | 2.5-6              | 2.5-6  | 2.5-6          | 2.5-6   |
| Micro-breaker               | 10A                | 16A    | 20A            | 20A     |

1. Slide the cable nut and back shell onto the cable.

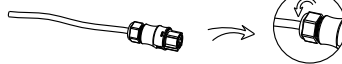
2. Insert the tripped end of each three wires into holes in the female insert, then tighten each screw with L-type wrench.



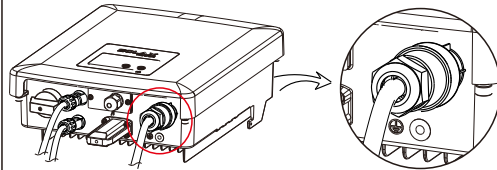
3. Screw down the threaded sleeve of the pressure screw.



4. Screw down the pressure screw.



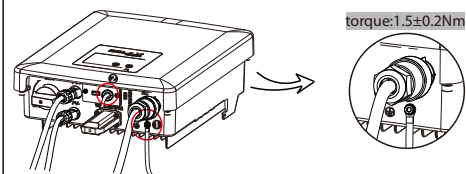
5. Connect the AC plug to the inverter, and screw down the pressure screw on the top part of AC terminal.



# V

## Connections and Overview

- Screw the ground screw with  $\Phi 4$  hexagon wrench shown as follow.

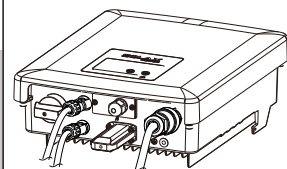


- Prepare the connector and the communication cable, following the PIN definition and assembly order below, then insert the cable into the corresponding RS485 port of the inverter, and tighten the waterproof connector,



| PIN        | 1   | 2        | 3       | 4             | 5             | 6      | 7      | 8   |
|------------|-----|----------|---------|---------------|---------------|--------|--------|-----|
| Definition | CT+ | Com/DRM0 | GND_COM | Meter_A/485_A | Meter_B/485_B | E_Stop | RefGen | CT- |

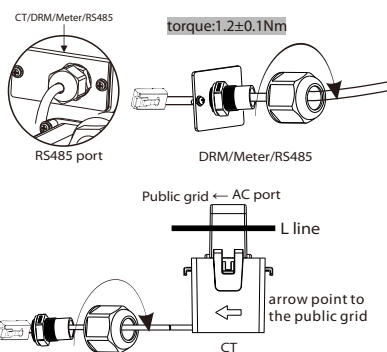
- Overview for connection.



- After checking all connections are correct, turn on the external DC /AC breakers.

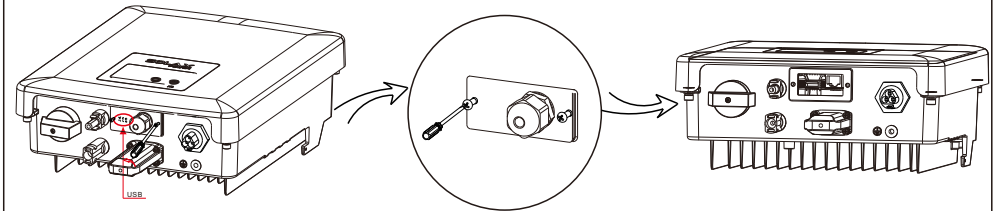
- Turn on the DC switch to the "ON" position.

- Inverter will start automatically when PV panels generate enough energy. The LED will be blue and the LCD screen will display the main interface.



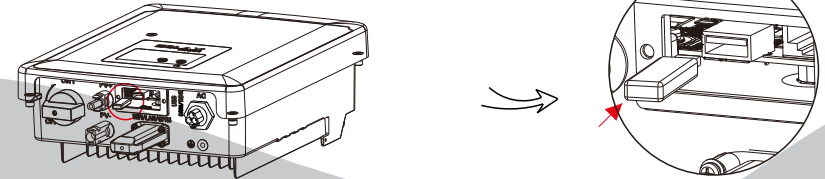
## Firmware Upgrading

- Open the communication lid on the bottom of the inverter as below.



- Download the upgrade program into USB flash drive.

- Insert the USB flash drive with program into the "USB" port on the bottom.

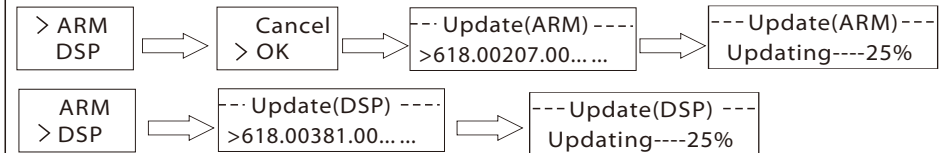


## Firmware Upgrading

➤ For the inverter with LCD, user can refer to the following:

-Please contact Solax service to get the latest firmware. Then add a new folder named "Update" in the root directory on your U-disk, and two more sub-folders named "ARM" and "DSP" under "Update". Please copy the firmware files into ARM and DSP respectively. It will be like:  
update\ARM\618.00207.00\_X1\_BOOST3.0\_MINI2.0\_AIR2.0\_ARM\_V1.21\_20200826.usb;  
"update\DSP\618.00381.00\_X1\_BOOST3.0\_MINI2.0\_AIR2.0\_DSP\_V2.03\_20201117.usb  
Press and hold the "Enter" key for 5 seconds to enter Off Mode. Then unscrew the waterproof lid and insert the U-disk into the "upgrade" port.

- When the user turns on all the switches, the LCD will show pictures as bellow.  
And at the same time, the user can choose the program you need by short pressing " " and "V" key , and then long press "V" to confirm and upgrade the inverter.



- After the upgrade is complete, please pull off the USB flash drive, and then screw the panel of USB port.

\* Please contact our service support to get the update package, and extract it into your USB flash drive. Please **DO NOT** modify the program file name ! Otherwise it may cause the inverter not work anymore !