



# Quick Installation Guide

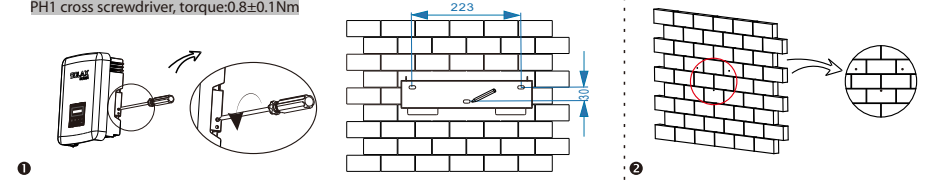
X1 Series 3.0KW-5.98KW

## II

## Inverter Installation

- Unscrew the bracket from the back of the inverter.
- And mark the position(223mm × 30mm) of three holes.

PH1 cross screwdriver, torque:0.8±0.1Nm



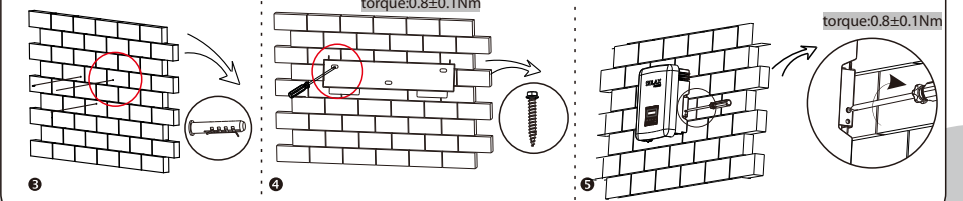
- Tighten the expansion tubes.

- Screw the expansion screws.

torque:0.8±0.1Nm

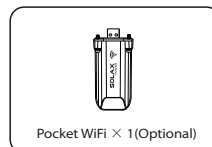
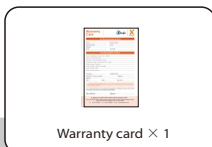
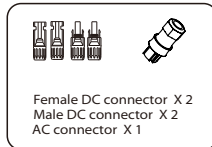
- Match the inverter with the bracket.
- Screw the cross recessed screw on the right side.

torque:0.8±0.1Nm



## I

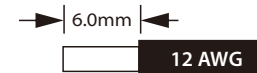
## Packing Lists



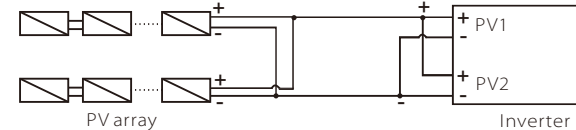
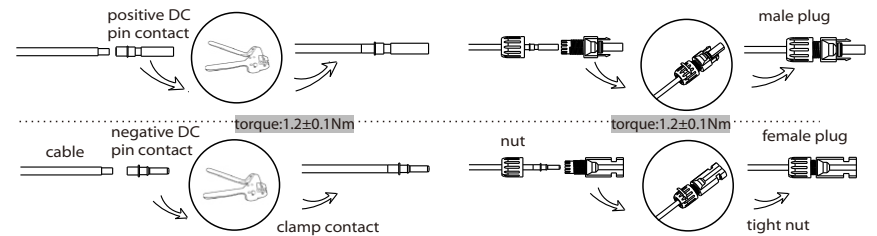
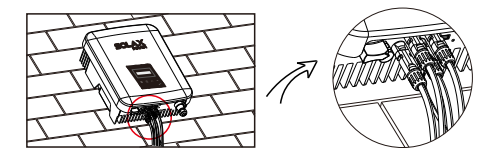
## III

## PV Connection

Cable size: 12 AWG  
trip length:



-Align the four halves connectors.

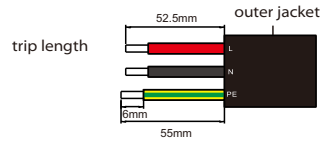


Note!  
The PV connection mode as the diagram shown is **not allowed!**

# IV

## AC Connection

Cable size: 10 AWG



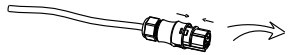
1. Slide the cable nut and back shell onto the cable.

2. Insert the tripped end of each three wires into holes in the female insert, then tighten each screw.

PH1 cross screwdriver; torque:  $0.8 \pm 0.1 \text{ Nm}$

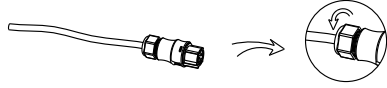


3. Screw down the threaded sleeve with pressure screw.

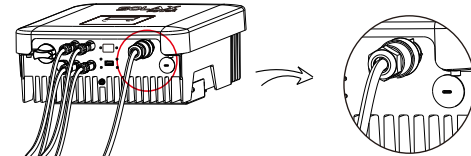


4. Screw down the pressure screw.

torque:  $3.0 \pm 0.3 \text{ Nm}$



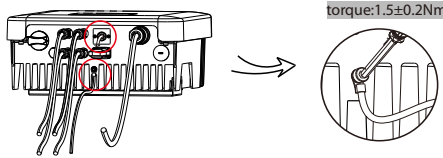
5. Connect the AC plug to the inverter.



# V

## Connections and Overview

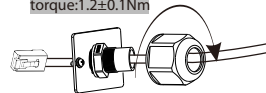
- Screw the ground screw with  $\Phi 4$  hexagon wrench shown as follow.



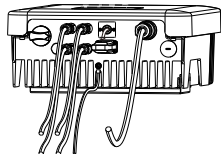
- Prepare the connector and the communication cable, following the PIN definition and assembly order below, then insert the cable into the corresponding 485 port of the inverter, and tighten the waterproof connector.

torque:  $1.2 \pm 0.1 \text{ Nm}$

|            | 1      | PIN      | 1       | 2                 | 3                 | 4      | 5       | 6 | 7 | 8 |
|------------|--------|----------|---------|-------------------|-------------------|--------|---------|---|---|---|
| Definition | RefGen | Com/DRM0 | GND_COM | Meter_A/<br>485_A | Meter_B/<br>485_B | E_Stop | GND_COM | X |   |   |



- Overview for connection.



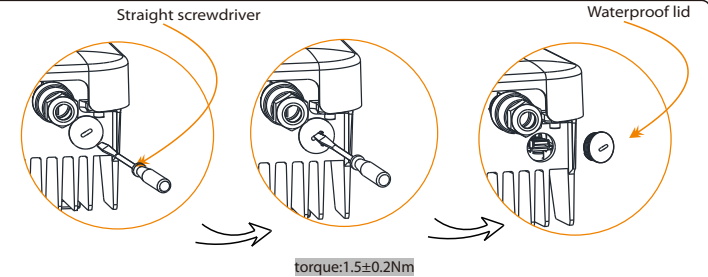
- After checking all connections are correct, turn on the external DC /AC breakers.

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

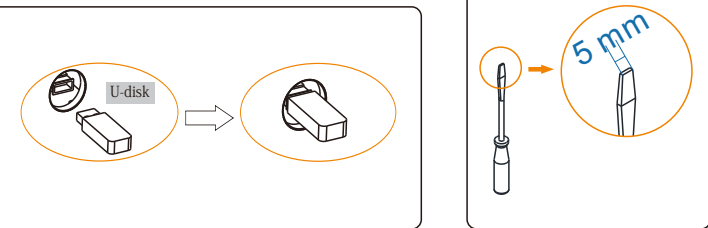
- Inverter will start automatically when PV panels generate enough energy. The LED will be blue and the LCD screen will display the main interface.

## Firmware Upgrading

1) Make sure the DC switch is off and the AC is disconnected with grid. Unscrew the waterproof lid of Upgrade port by straight screwdriver as the picture shows.



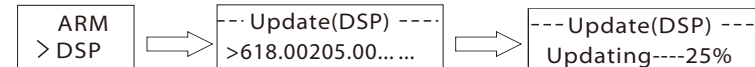
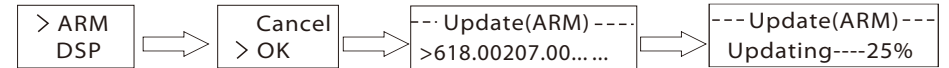
2) Insert U-disk with **upgrade package\*** into the USB port on the bottom of the inverter. Then turn on the DC switch or connect the PV connector.



## Firmware Upgrading

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

3) When the user turns on all the switches, the LCD will show pictures as below. And at the same time, the user can choose the program you need by pressing short Up and Down, and long press "V" to confirm and upgrade the inverter.



4) After the upgrade is complete, please remember to turn off the DC switch or disconnect the PV connector, then pull off the U-disk, screw the waterproof lid.

\* Please contact our service support to get the update package, and extract it into your U-disk. Do not modify the program file name! Or it may cause the inverter not work anymore!