Manuals+ — User Manuals Simplified.

SOLAX POWER X1-4.2T On Grid Inverter User Guide

SOLAX POWER X1-4.2T On Grid Inverter

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Expansion bolt*3
Flat gasket*3
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Negative DC pin contact * 2

Documents

Earth terminal*1

Wi-Fi dongle (optional),
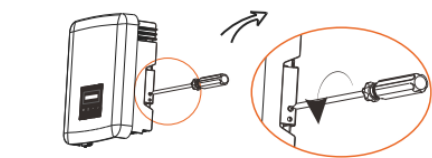LAN/GRPS dongle (optional)*1

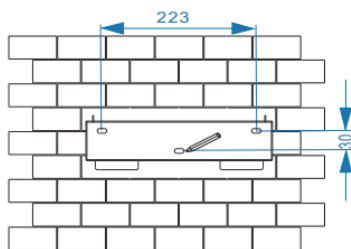* For the optional accessories, please be subject to the actual delivery.

Inverter Installation

- Unscrew the bracket from the back of the inverter.
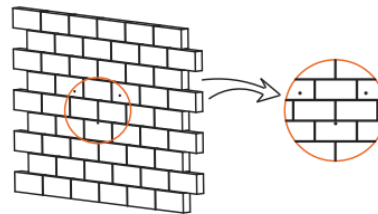- And mark the position(223 mm*30 mm) of three holes.
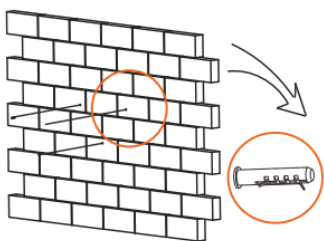
PH1 cross screwdriver; Torque: 0.8±0.1 N.m

223

30

❶

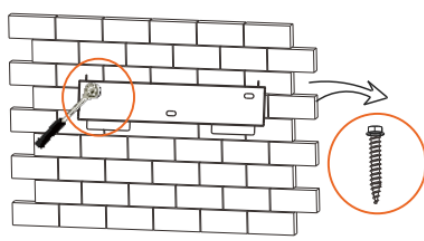- Drill holes with φ10 drill.
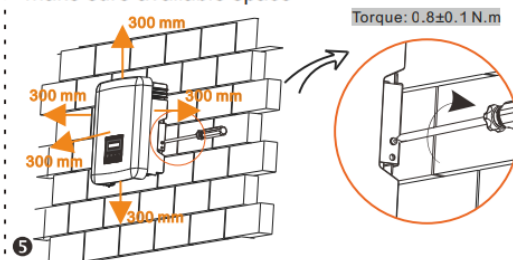- Depth: at least 60 mm.

❷

- Tighten the expansion bolts.

❸

- Screw the expansion screws.

❹

- Match the inverter with the bracket.
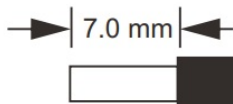- Screw the cross recessed screw on the right side.
- make sure available space

Torque: 0.8±0.1 N.m

300 mm
300 mm   300 mm
300 mm
300 mm

❺

PV Connection

Cable size: 4 mm²

strip length:

7.0 mm

-Align the four halves connectors.

positive DC
pin contact

male plug

cable

negative DC
pin contact

nut

female plug

clamp contact

tight nut

+
-

+
-

+ PV1
-

+
-

+
-

+ PV2
-

PV array

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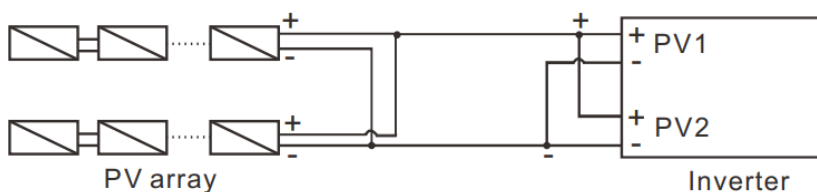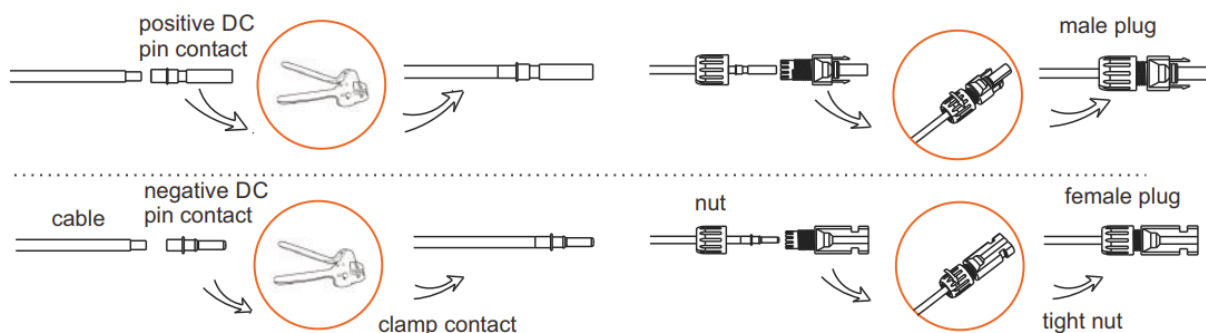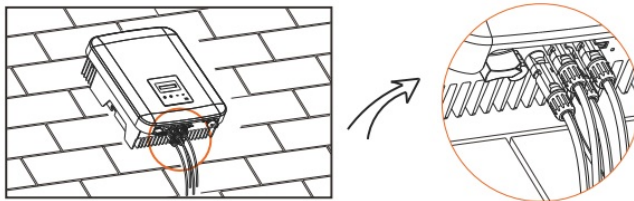
Note!
The PV connection
mode as the diagram
shown is not
allowed!

AC Connection

strip length

outer jacket

52.5mm

55mm

6mm

L

N

PE
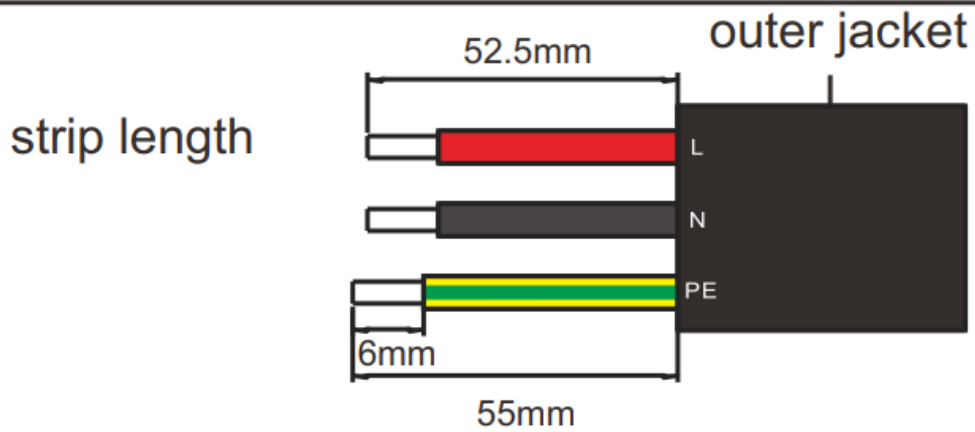
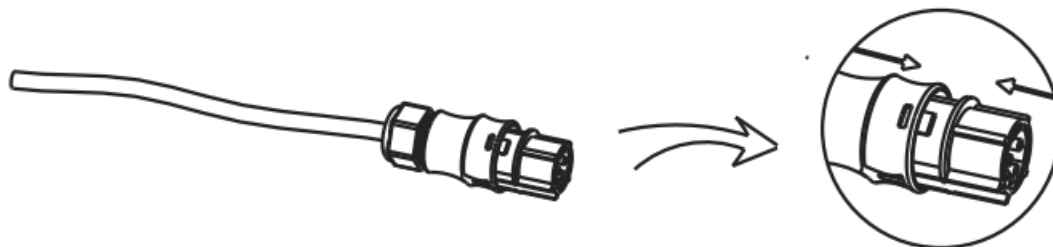| Model	X1-3.0/3.3/3.6K	X1-4.2/4.6K	X1-5.0/5.5/6K
L,N cable(mm²)	4-6	5-6	5-6
PE cable(mm²)	2.5-6	2.5-6	2.5-6
Micro-breaker	20A	25A	32A

1. Slide the cable nut and back shell onto the cable.
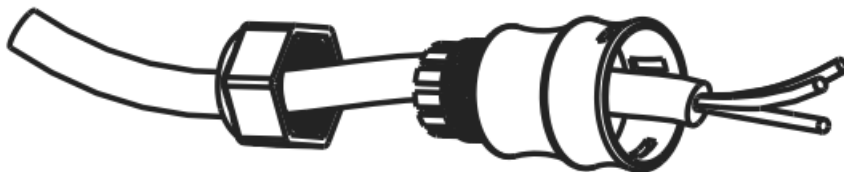
2. Insert the stripped end of each three wires into holes in the female insert, then tighten each screw.
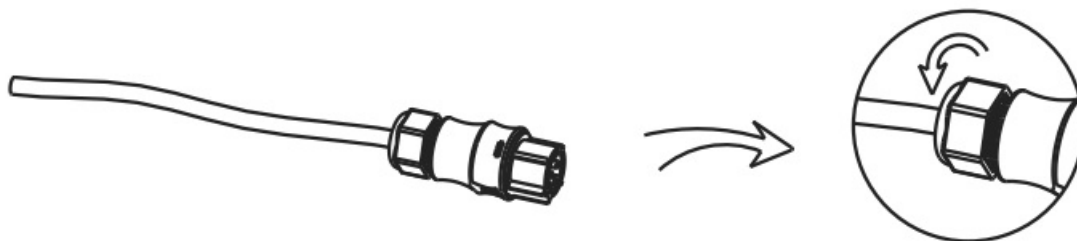
Ph1 cross screwdriver; Torque: 0.5±0.1 N.m

N L

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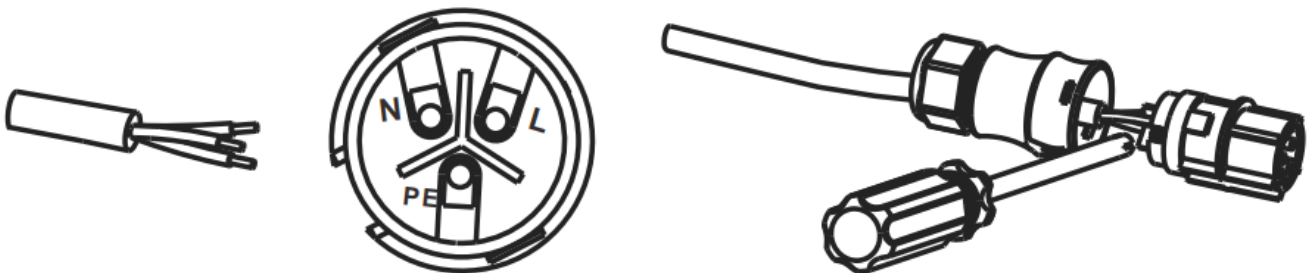
3. Screw down the threaded sleeve of the pressure screw.

4. Screw down the pressure screw.

5. Connect the AC plug to the inverter.
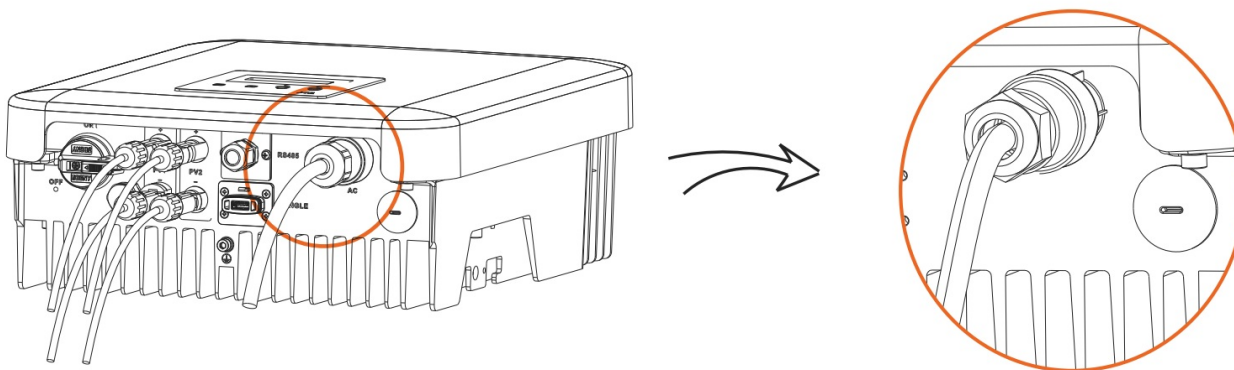
Connections and Overview

– Screw the ground screw with Φ4 hexagon wrench shown as follow.

Torque:1.5±0.2 N.m

Prepare the RJ45 connector and the communication cable, following the PIN definition and assembly order below, then insert the RJ45 connector into the corresponding RS485 port of the inverter, and tighten the waterproof connector.

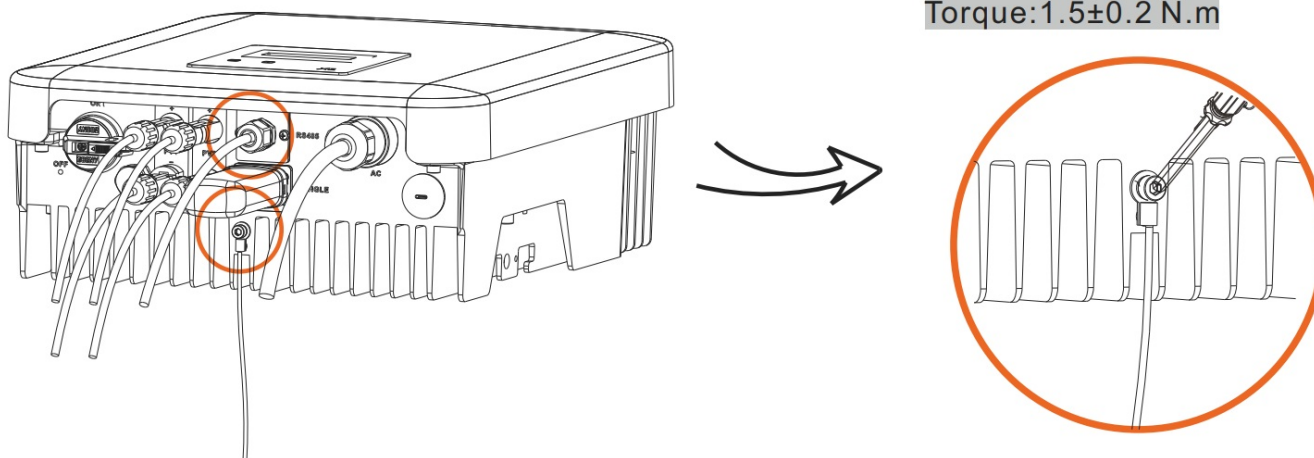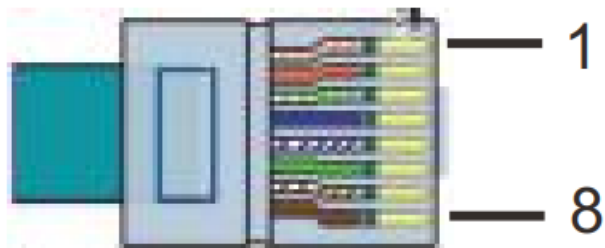| PIN	1	2	3	4	5	6	7	8
Definition	CT+	Com/DRM 0	GND_COM	Meter_A/ 485_A	Meter_B 4 85_B	E_Stop	RefGen	CT-

CT/DRM/Meter/RS485
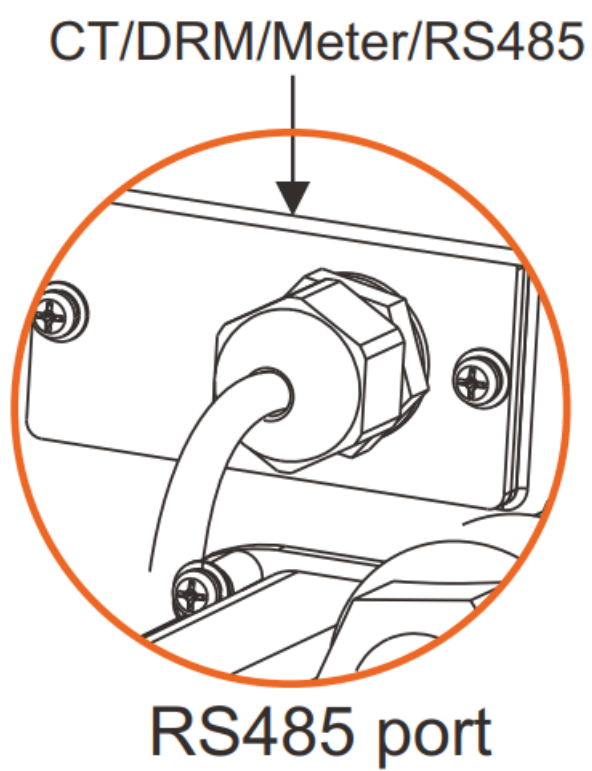
RS485 port

Torque:1.0±0.1N.m
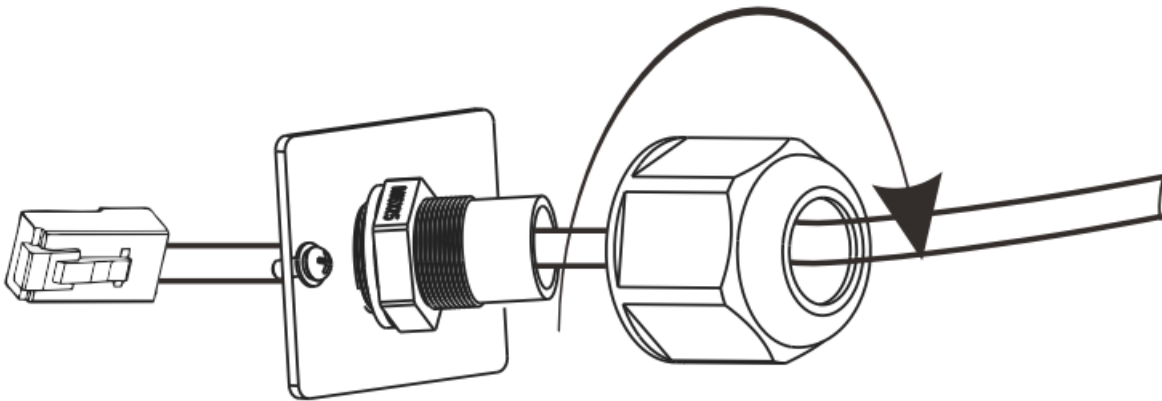
DRM/Meter/RS485

Public **grid, inverter side → AC port**

CT

L line

arrow point to
the public grid
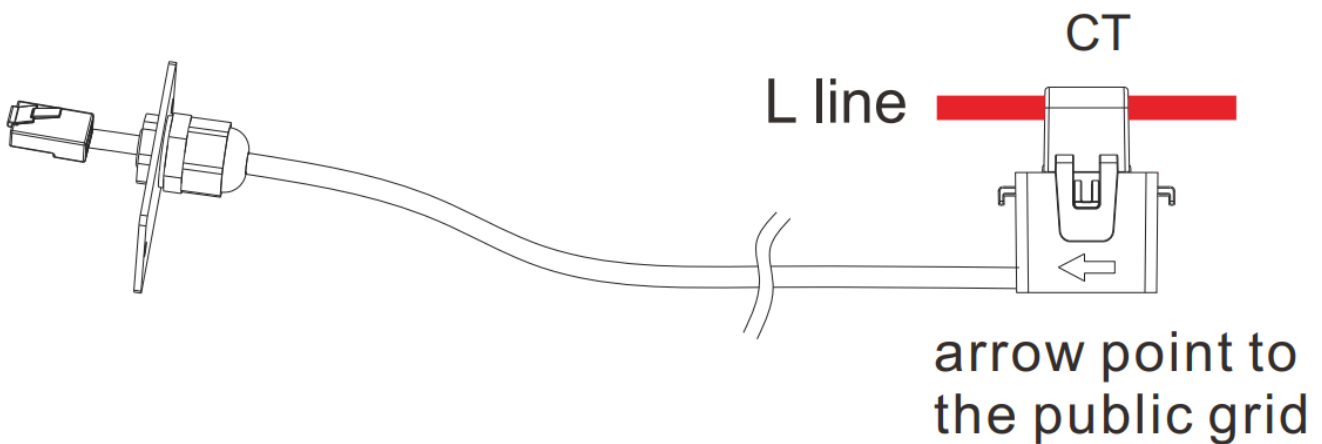
Firmware Upgrading

1. Make sure the DC switch is off and the AC is disconnected with grid. User can update the inverter system through the U-disk.
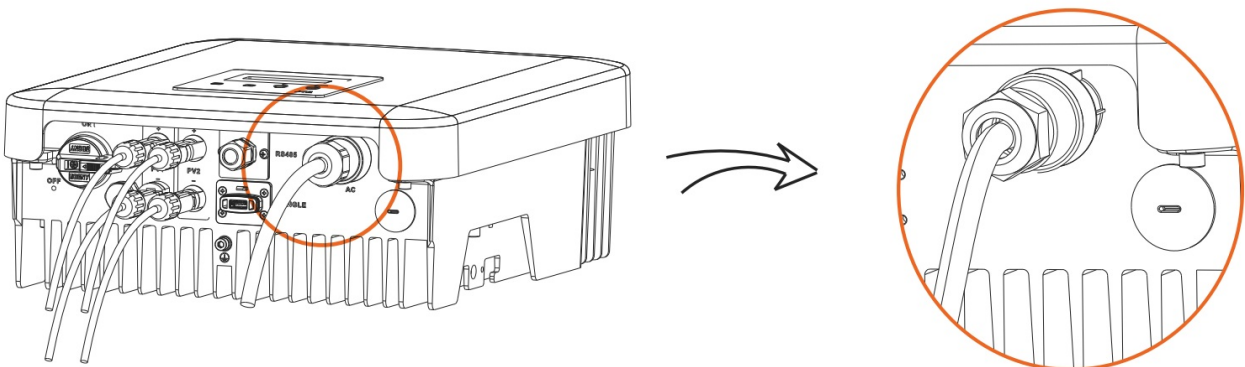
2. Please contact SolaX service to get the latest firmware. Then add a new folder named "Update" in the root directory on your U-disk, and two more sub-folders named "ARM" and "DSP" under "Update". Please copy the
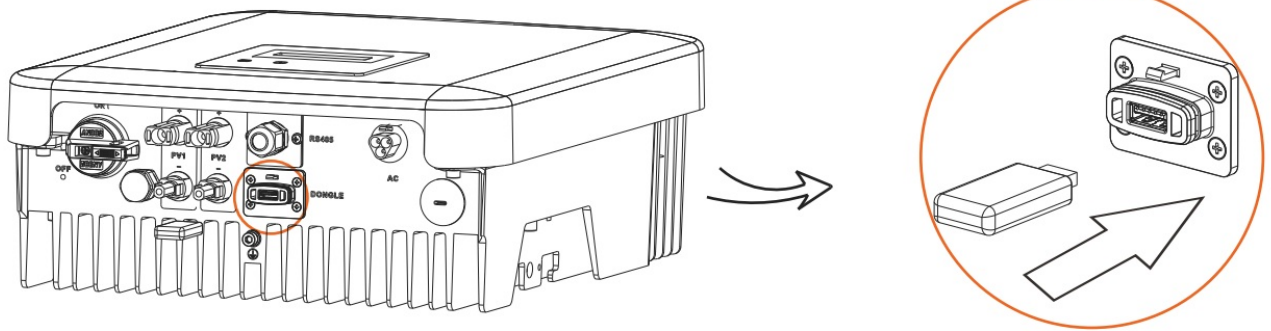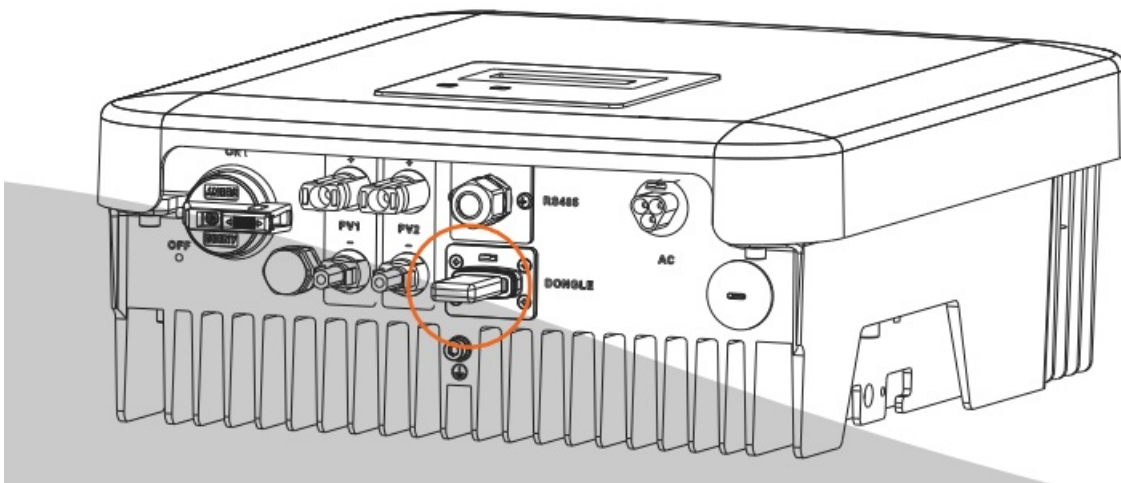
firmware files into ARM and DSP respectively. It will be like:

"Update\ARM\618.00207.00_XX_XXXXX_XXXX_XXX_ARM_Vx.xx_xxxxxxxx.usb";

"Update\DSP\618.00381.00_XX_XXXXX_XXXX_XXX_DSP_Vx.xx_xxxxxxxx.usb"

3. Press and hold the "v" key for 5 seconds to enter Off Mode. Then insert the U-disk into the "DONGLE" port.

▶ 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.
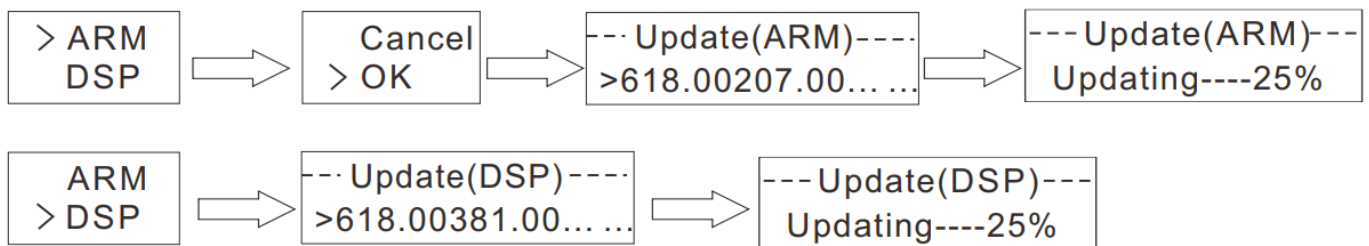
4) After the upgrade is complete, please remember to turn off the DC switch and AC switch, then pull off the Udisk.

* Please contact our service support to get the latest firmware, and unzip it into your U-disk by following the steps above.
Do not modify the firmware file name ! Otherwise it may cause damage to the inverter!

Documents / Resources

SOLAX POWER X1-4.2T On Grid Inverter [pdf] User Guide
X1-4.2T On Grid Inverter, X1-4.2T, On Grid Inverter, Grid Inverter