Quick Installation Guide

SOLAX POWER

X1-AC Series 3.0KW-5.0KW

II Inverter Installation

- Mark the position of three holes

❶

- Drill holes with Φ6 drill.
- Depth: at least 50mm.

❷

- Tighten the expansion tubes.

❸

- Screw the expansion screws. (torque:2.5±0.2Nm)

❹

- Match the inverter with the bracket.
- Screw the cross recessed screw on the right side.(torque:1.5±0.2Nm)

❺

I Packing List

X1 Series X 1	Bracket X 1	Male DC connector X 1 Female DC connector X 1 AC connector X 1	Screw package: Expansion tube X 3 Expansion screw X 3
Earth terminal X 1 Set screw ×1	Waterproof connector with RJ45 X 4	User manual X 1	Quick installation guide X1
Warranty card X 1	Current Sensor/CT X 1(Optional)	Pocket WiFi X 1(Optional)	Meter X 1(Optional)

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

III Serial Port Connections

➤ Ports Definition.

Communication interface bewteen the inverter and Meter/Battery/DRM/485 are as follows with RJ45 connectors which should be inserted corresponding port in the inverter.
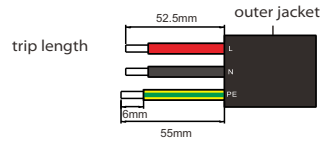
PIN Port	1	2	3	4	5	6	7	8
CT	CT+	X	X	CT-	X	X	X	X
Meter	X	X	X	X	X	GND	485A	485B
BMS	NTC	GND	GND	BMS_CANH	BMS_CANH	GND	BMS_485A	BMS_485B
DRM	DRM1/5	DRM2/6	DRM3/7	DRM4/8	+3.3V	DRM0	GND	GND
485	COM0	Shut Down	GND	485A	485B	X	X	X

* Prepare RJ45 connector and the communication cable, following the PIN definition and assembly order bellow, then insert the cable into the corresponding CT/Meter or BMS or DRM port of the inverter, and tighten the waterproof connector.

Meter /BMS/DRM/485

DRM   CT/Meter BMS

485

Public grid ← AC port

L line

CT

IV AC and Earth Connection

Cable size: 10 AWG(5~6mm ²)
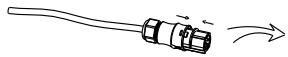
outer jacket

trip length

52.5mm
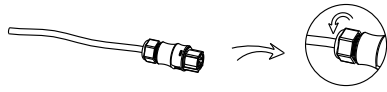
L
N
PE

6mm

55mm

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

2.Insert the tripped end of three wires into holes in the female insert, then tighten(torque:0.8±0.1Nm) each screw.

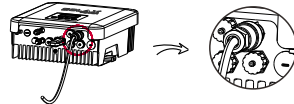3.Screw down the threaded sleeve with pressure screw.

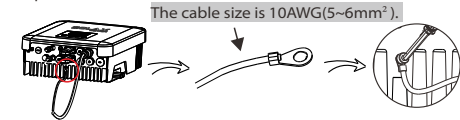4.Screw down the pressure screw.(torque:3±0.3Nm)

5.Connect the AC plug to the inverter.

6.Screw the ground screw(on the inverter) with Φ4 hexagon wrench (torque:1.5±0.2Nm)

The cable size is 10AWG(5~6mm²).

V Battery Connection and Overview
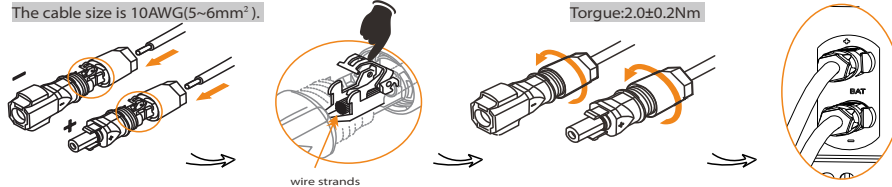
Note:
If you use the lead-acid battery, please refer to corresponding quick installation manual.

A:Power Connection Steps:

Press down spring until it clicks audibly into place

The cable size is 10AWG(5~6mm²).
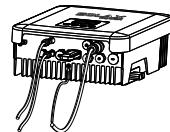
Torgue:2.0±0.2Nm

BAT

wire strands

The fine wire strands must be seen in the champer

➢ Overview for connection.

- After checking all connections is correct, turn on the external battery switch.

- Turn on the grid switch.

- Press the "Enter" key for five seconds to open the switch. The LED will be green and the screen will display the main interface.

VI Start Guide

❶
== English ==
>English
 Deutsch

- Select the language according to the need.

❷
== Date time==
>2018< -07-07
 00:00

- Set date time based on the local time.

❸
== Safety ==
 Country
>VDE4105

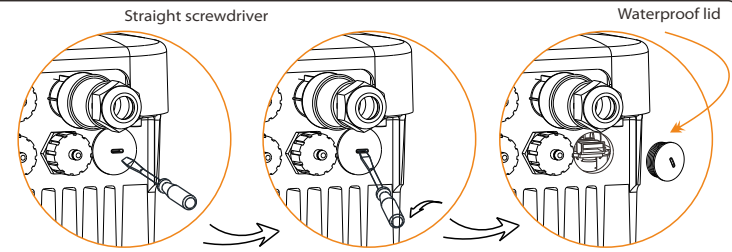- The user can set the safety standard here according to different countries and grid tied standards.

❹
== Export Control==
 User Value:
 0000 W

- This function allows the inverter able to control energy exported to the grid.

- The user value setting by installer must be less than the factory value.

❺
== Work Mode ==
 Mode Select:
 >Self Use<

- There are 4 work modes for choice, self use, back up mode, feed in priority and force time use.
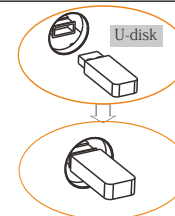
- Please refer to the Page 43 of the user manual.

❻
== RF control ==
 >RF1 Setting
 >RF2 Setting

- RF control is an optional function (being developed) which can control designated load intelligently by consuming the surplus energy when feed in power reaches certain value.
- The function can only be achieved with Solax product "smart plug".
- For specific operation, please refer to "Smart Plug user manual"

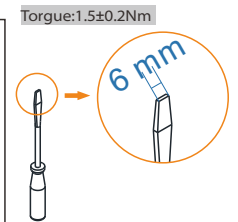## Firmware Upgrading

Straight screwdriver

Waterproof lid

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

Torgue:1.5±0.2Nm

2) Insert U-disk with **upgrade package*** into the USB port on the bottom of the inverter. Then turn on AC switch the battery switch, the LCD will show picture as below.

U-disk

Update
>ARM
 DSP

6 mm

3) Press "OK" to confirm to update. After the upgrade is complete, please remember to turn off the battery switch and the AC switch , 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 !