



Quick Installation Guide

X1-AC Series 3.0KW-5.0KW

II

Inverter Installation

1 - Mark the position of three holes

2 - Drill holes with $\Phi 6$ drill.
- Depth: at least 50mm.

3 - Tighten the expansion tubes.

4 - Screw the expansion screws.
(torque: $2.5 \pm 0.2 \text{ Nm}$)

5 - Match the inverter with the bracket.
- Screw the cross recessed screw on the right side. (torque: $1.5 \pm 0.2 \text{ Nm}$)

I

Packing List

X1 Series X1	Bracket X1	Male DC connector X1 Female DC connector X1 AC connector X1	Screw package: Expansion tube X3 Expansion screw X3
Earth terminal X1 Set screw X1	Waterproof connector with RJ45 X4	User manual X1	Quick installation guide X1
Warranty card X1	Current Sensor/CT X1 (Optional)	Pocket WiFi X1 (Optional)	Meter X1 (Optional)

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

III

Serial Port Connections

► Ports Definition.

Communication interface between the inverter and Meter/Battery/DRM/485 are as follows with RJ45 connectors which should be inserted corresponding port in the inverter.

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	COMO	Shut Down	GND	485A	485B	X	X	X

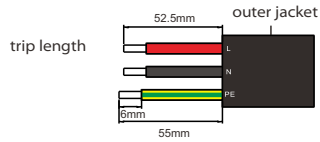
* Prepare RJ45 connector and the communication cable, following the PIN definition and assembly order below, then insert the cable into the corresponding CT/Meter or BMS or DRM port of the inverter, and tighten the waterproof connector.

Public grid ← AC port
L line
CT

IV

AC and Earth Connection

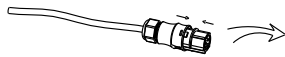
Cable size: 10AWG(5~6mm²)



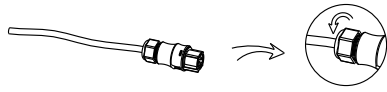
1. Slide the cable nut and back shell onto the cable.
2. Insert the tripped end of three wires into holes in the female insert, then tighten (torque: $0.8 \pm 0.1 \text{ Nm}$) each screw.



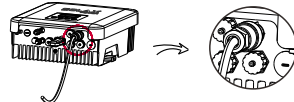
3. Screw down the threaded sleeve with pressure screw.



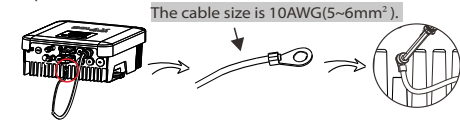
4. Screw down the pressure screw. (torque: $3 \pm 0.3 \text{ Nm}$)



5. Connect the AC plug to the inverter.



6. Screw the ground screw (on the inverter) with $\Phi 4$ hexagon wrench (torque: $1.5 \pm 0.2 \text{ Nm}$)



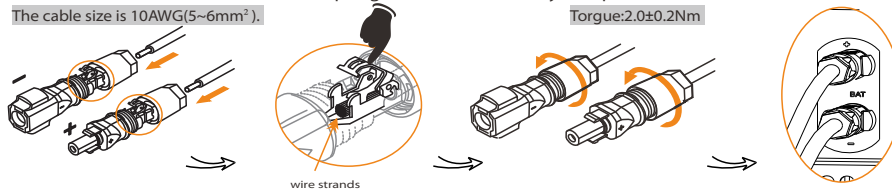
V

Battery Connection and Overview

Note:
If you use the lead-acid battery, please refer to corresponding quick installation manual.

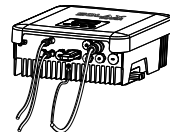
A: Power Connection Steps:

Press down spring until it clicks audibly into place
The cable size is 10AWG(5~6mm²). Torque: $2.0 \pm 0.2 \text{ Nm}$



➤ 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

1. == English ==
>English
Deutsch
- Select the language according to the need.
2. == Date time ==
>2018< -07-07
00:00
- Set date time based on the local time.
3. == Safety ==
Country
>VDE4105
- The user can set the safety standard here according to different countries and grid tied standards.
4. == 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.
5. == 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.
6. == 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"

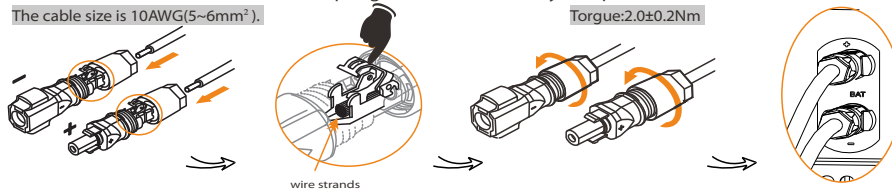
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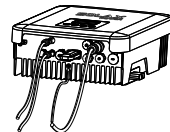
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Firmware Upgrading

- 1) Make sure the battery switch and the AC switch 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 AC switch the battery switch, the LCD will show picture as below.
- 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!