



Quick Installation Guide

X3-Forth 40.0kW-150.0kW

II

Mounting the inverter on the wall

- Use the bracket as a template for marking the position of holes with a level and marker.

- Drill the four holes with a $\phi 10$ drill.
- Depth: at least 65 mm.

- Hammer the M8x80 expansion screw into four holes.
- Screw in the nut firmly with socket wrench.

*Note: Screws used for installation on the wall are not in the accessory bag. Please prepare them in advance.

- Lift up the inverter.
- Two methods are available by four installers or lifting ring

- Hang it onto the bracket

- Fix it on the wall bracket with M8 bolts

I

Packing List

 X3-Forth inverter x1	 Bracket x1	 M10xL40 Bolt combination x4	 Communication connector x1
 M8 Bolt x2	 Female DC connector x24 Male DC connectors x24	 Positive DC pin contact x24 Negative DC pin contact x24	 Double offset ring wrench x1
 Installation guide x1	 User manual x1	 WiFi (Optional)	

*Note: The double offset ring wrench in the accessory bag is used to remove the screws on the front cover of the inverter. Keep it in a safe place

III

Mounting the inverter on the stand

Use a bracket as a template for marking the position of the holes with a level and marker.

- Drill the four holes with a drill.

- Screw in the M10x40 screw into holes.
Tighten it firmly with corresponding socket wrench.

- Lift up the inverter.
- Two methods are available by four installers or lifting right

- Hang it onto the bracket

- Fix it on the stand with M8 bolts

IV

Grounding connection

- Strip the 35-70 mm² grounding cable insulation
- Select OT copper terminal (M8)

- Pull the heat-shrink tubing over grounding cable

- Insert the stripped section into OT terminal.
And crimp with crimping tool

- Pull the heat-shrink tubing onto crimped section of OT terminal
- The tubing must be at below stripped cable section
- Use hot-air blower to shrink it so that they are in firm contact with:

- Connect the grounding cable to grounding point on the inverter
- Tighten it with torque 10-12 N.m

V

Grid connection

- Select the appropriate OT terminal and 70-240 mm² black, red and yellow and green copper cable
- use wire stripper to strip the insulation layer of the AC cable end.
-The stripped insulation layer shall be 2-3mm longer than "D" part of OT terminal as shown below.

- Pull the heat-shrink tubing over AC cable.
- Insert the stripped section into OT terminal and crimp with crimping tool.

- Pull the heat-shrink tubing over the crimped section of OT terminal.
-Use hot air blower to shrink it so that they are in firm contact with OT terminal.

-Un-install the screws on the cover to open the cover of the wiring box.
-Use utility knife to cut out the pagoda type protection ring in accordance with the whole cable size,
-Put the AC cable through the pagoda protection ring, and connect it to the AC terminals L1, L2, L3 and N in turn, and tighten it with torque wrench (with the torque of 25-30 N.m).
-Re-install the cover of wiring box with the torque of 5-7 N.m.

Separate PE cable

Multi-core cable

VI

PV connection

- Disassemble the DC contactor

- Strip the PV cable insulation 6 mm

Positive DC contactor

Negative DC contactor

Positive PV pin

Negative PV pin

Positive terminal

Negative terminal

Fastening head

Fastening head

Positive DC PV pin

Negative DC PV pin

Positive terminal

Negative terminal

Clamp pin

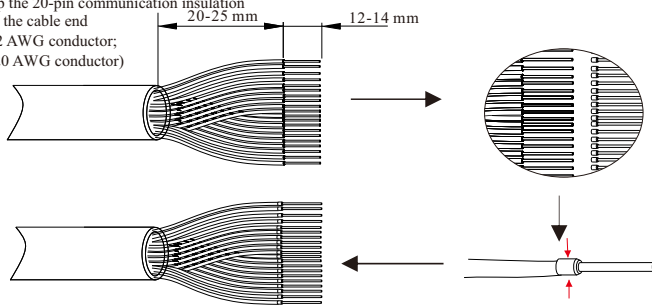
Tighten the fastening head

- Connect the PV cable to the corresponding PV port

VII

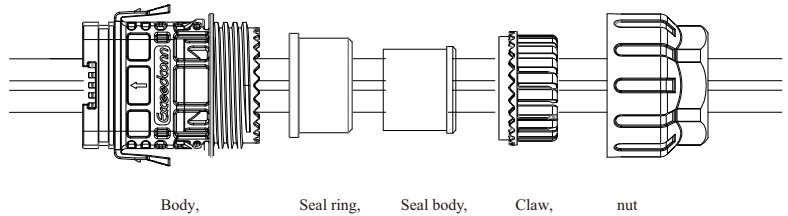
Communication connection

- Select 0.5–0.75 mm² twisted-pair and strip the 20-pin commu
- Insert the insulated cord end terminal into the cable end
(ENY0512 nylon terminal for 0.5 mm²/22 AWG conductor;
ENY7515 nylon terminal for 0.75 mm²/20 AWG conductor)
- Clamp with terminals press clamp



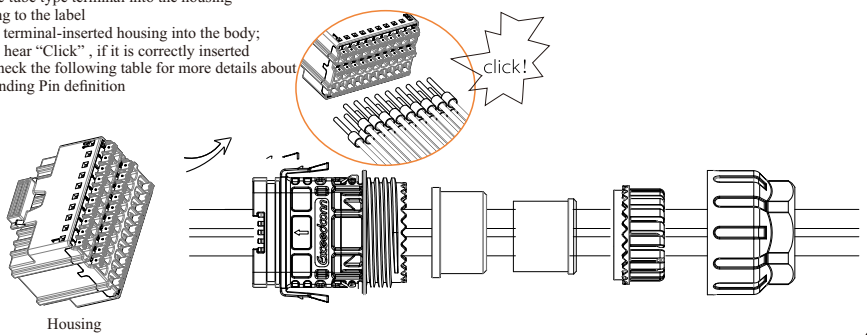
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- Disassemble the communication terminal
- Set the nut, claw, seal body, seal ring and body on the cable



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- Insert the tube type terminal into the housing according to the label
- Push the terminal-inserted housing into the body; you will hear "Click", if it is correctly inserted
- Please check the following table for more details about corresponding Pin definition




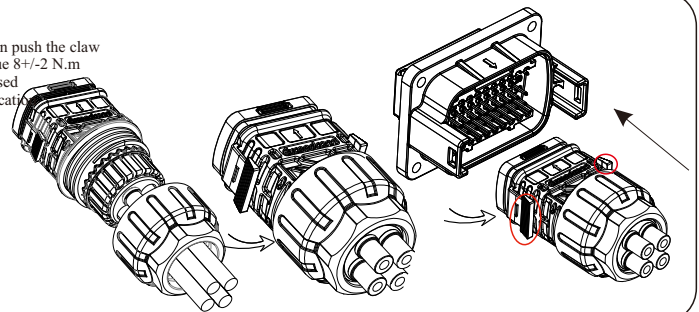
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Communication connection

Port	Pin	Definition	Remark
RS-485-1	1	RS485A IN+	Inverter RS485 networking or connect the data collector
	2	RS485B IN-	
	3	Rs485 IN-GND	
	4	RS485A OUT+	
	5	RS485B OUT-	
	6	Rs485 OUT-GND	
RS-485-2	7	RS485A METER	Connect the RS485 meter or other devices
	8	RS485B METER	
	9	V+5V	
	10	COM_GND	
DRM	11	DRM1/5	Reserved for DRM
	12	DRM2/6	
	13	DRM3/7	
	14	DRM4/8	
	15	RG/0	
	16	CL/0	
DI	21	Digital IN+	Input digital signal
	22	Digital IN-	
DO	29	Digital OUT+	Output digital signal
	30	Digital OUT-	

- Push the seal body into seal ring, then push the claw
 - Clockwise tighten the nut with torque 8 ± 2 N.m
 - Keep the buttons on both sides pressed and then connect it to the communication port on the inverter. You will hear "Click" if it is correctly connected
- 



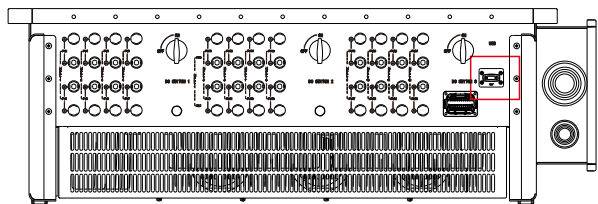
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VIII

Monitoring connection

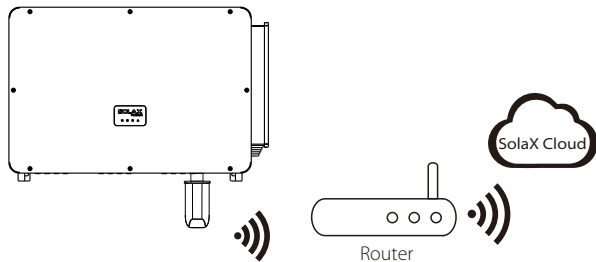
Solaxcloud is a mobile phone application that can communicate with the inverter via WiFi/LAN/4G. It can realize alarm query, parameter configuration, daily maintenance and other functions. This is a convenient maintenance platform.

Plug Dongle into “USB” port at the bottom of the inverter. After the DC side or AC side is powered on, the APP and inverter can be connected. Please refer to the corresponding manual for details.



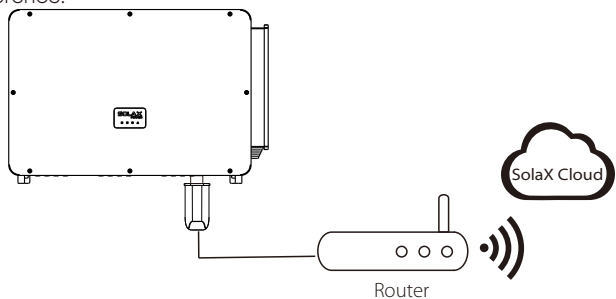
- WiFi connection

Solax Pocket WiFi Dongle connects to a local network within 50 m of the installation to enable access to the SolaX Cloud monitoring platform.



- LAN connection

If WiFi isn't suitable, the Pocket LAN enables users to connect to the network via an ethernet cable. Ethernet allows for a much more stable connection with less interference.

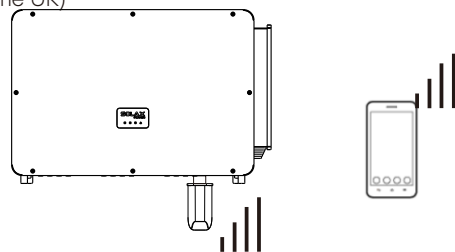


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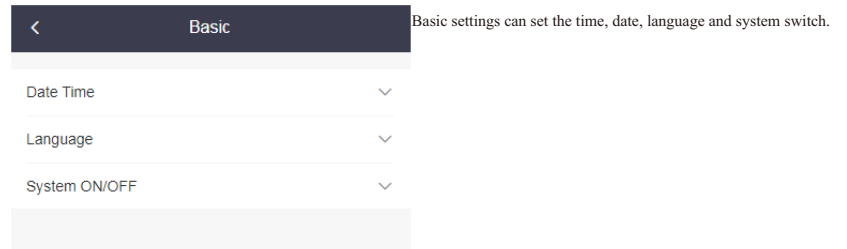
Monitoring connection

- 4G connection

SolaX Pocket 4G dongle allows you to use a 4G connection to monitor your system without the option of connecting to a local network. (This product is not available in the UK)



➤ Basic setting



➤ Advanced setting

