



Quick Installation Guide

X3-MEGA G2 20kW-60kW

II Mounting the inverter on the wall

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

2 - Drill the four holes with a $\Phi 12$ drill.
- Depth: at least 65mm.

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

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

5 - Hang it onto the bracket

6 - Fix it on the wall bracket with M8 bolts

I Packing List

*For the optional accessories, please be subject to the actual delivery.
*Note: The allen key in the accessory box 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

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

2 - Drill the four holes with a $\Phi 10$ drill.

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

*Note: Screws used for stand installation are not in the accessory box. Please prepare them in advance.

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

5 - Hang it onto the bracket

6 - Fix it on the stand with M8 bolts

IV Grounding connection

1 - Strip the grounding cable insulation
- Select OT copper terminal

2 - Pull the heat-shrink tubing over grounding cable
The tubing must be at below stripped cable section

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

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

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

V Grid connection

1 - Disassemble the AC protective shield

M50X1.5 (26-32)
M50X1.5 (20-26)
M50X1.5 (16-20)

Fastening head, Blue rubber seal ring, Orange ring, Red ring, Black part, Protective shield

*Note: Select the corresponding rubber seal ring in accordance with cable size used. The black part no longer used.

2 - Strip the 35-50 mm² AC cable insulation
L1/L2/L3: 70±5, N/PE: 100±5
- Select OT copper terminal

3 - Route the cable through fastening head and AC protective shield and pre-tighten the fastening head

*Note: The "Delta Grid" in "Setting"- "Grid Protection"- "FunctionChoose" is set as "Enable" in default. In this condition, the Neutral wire is not required to be connected. Please set "Delta Grid" to "Disable" before connecting the Neutral wire for the inverter.

4 - Pull the heat-shrink tubing over AC cable

5 - Insert the stripped section into OT terminal
- Pull the heat-shrink tubing onto crimped section of OT terminal
- Use hot-air blower to shrink it so that they are in firm contact with OT terminal

6 - Disassemble the five screws and connect the AC cable to the corresponding AC terminal with cross screwdriver
- Tighten the screw with torque 6 N·m.

7 - Loosen the fastening head and fix the AC protective shield with cross screwdriver
- Clockwise screw in the screws to fix it with 1 N·m.
- Tighten the fastening head again

VI PV connection

1 - Disassemble the DC connector

Positive DC connector, Positive PV pin contact, Positive terminal, Fastening head
Negative DC connector, Negative PV pin contact, Negative terminal, Fastening head

2 - Strip the PV cable insulation 6 mm
Cable size: 4-6 mm²

3 - Connect the PV cable to the corresponding PV port

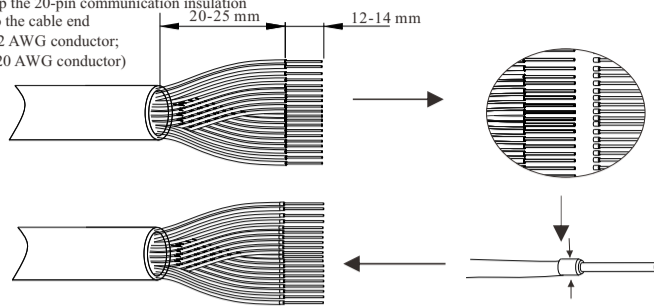
(Torque: 1.2+/-0.1 N·m.)

Tighten the fastening head

4 - Connect the PV cable to the corresponding PV port

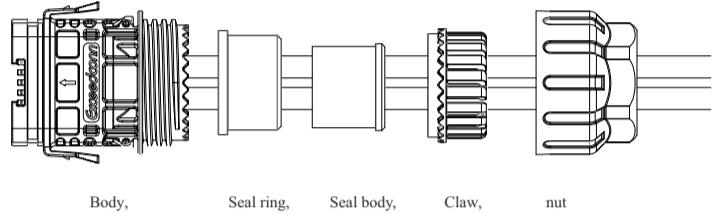
VII Communication connection

- Select 0.5-0.75 mm² twisted-pair and strip the 20-pin communication insulation
- Insert the insulated cord end terminal into the cable end (ENY0512 nylon terminal for 0.5 mm²/22 AWG conductor; ENY7512 nylon terminal for 0.75 mm²/20 AWG conductor)
- Clamp with terminals press clamp



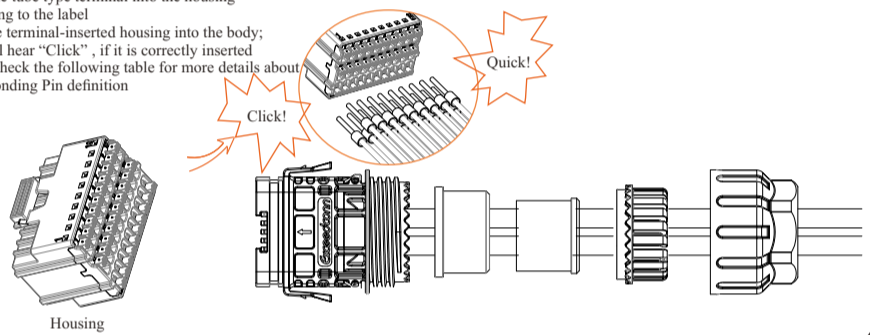
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- Disassemble the communication terminal
- Set the nut, claw, seal body, seal ring and body on the cable



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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

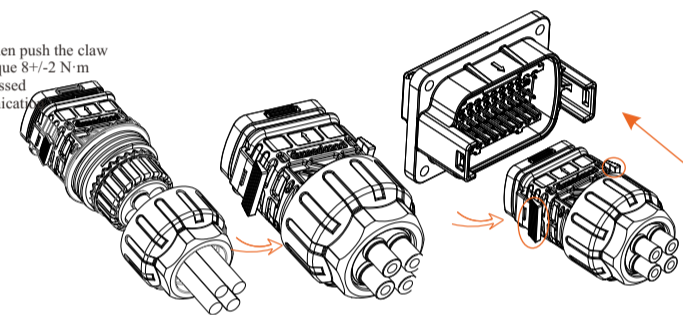


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VII Communication connection

Port	Pin	Definition	Remark
RS-485-1	1	RS485A IN+	Inverter RS485 networking or connect the data collector
	2	RS485B IN-	
	3	GND	
	4	RS485A OUT+	
	5	RS485B OUT-	
	6	GND	
RS-485-2	7	RS485A METER	Connect the RS485 meter or other devices
	8	RS485B METER	
	9	+5V	
	10	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 \pm 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

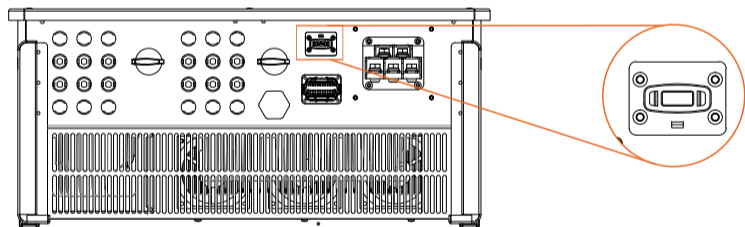


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VIII Monitoring connection

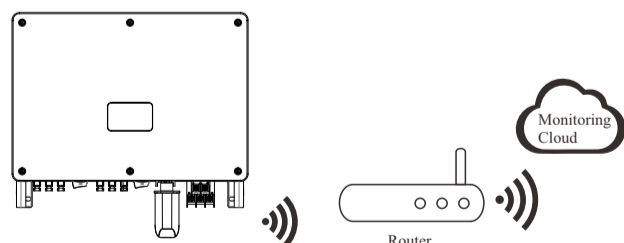
Monitoring Cloud is an application that can communicate with the inverter via WiFi/LAN/4G. It can realize alarm query, parameter configuration, daily maintenance and other functions. This is a convenient maintenance platform.

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.



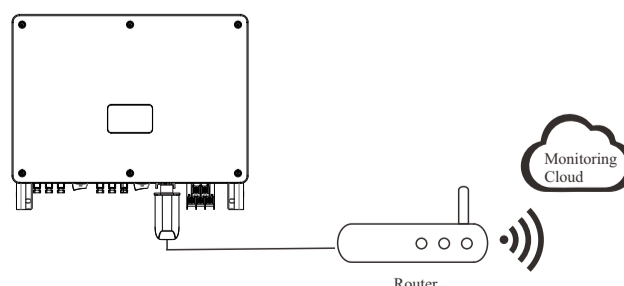
> WiFi connection

WiFi dongle connects to a local network within 50 m of the installation to enable access to the Monitoring Cloud platform.



> LAN connection

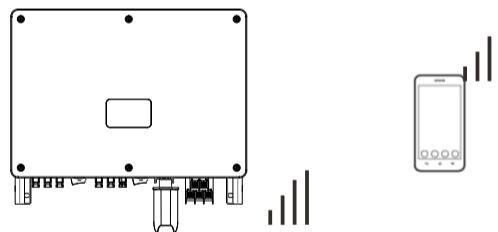
If WiFi isn't suitable, the LAN dongle enables users to connect to the network via an ethernet cable. Ethernet allows for a much more stable connection with less interference.



VIII Monitoring connection

> 4G connection

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 and advanced setting

Basic settings include the time, date and language. Advanced settings can set Safety, System Switch, PVConnection, Active Power Control, Export Control, Reactive Power Control, Grid Voltage Parameters, Grid Frequency Parameters, Grid Through Parameters, Check Parameters, Reset, Communication Parameters and New Password.