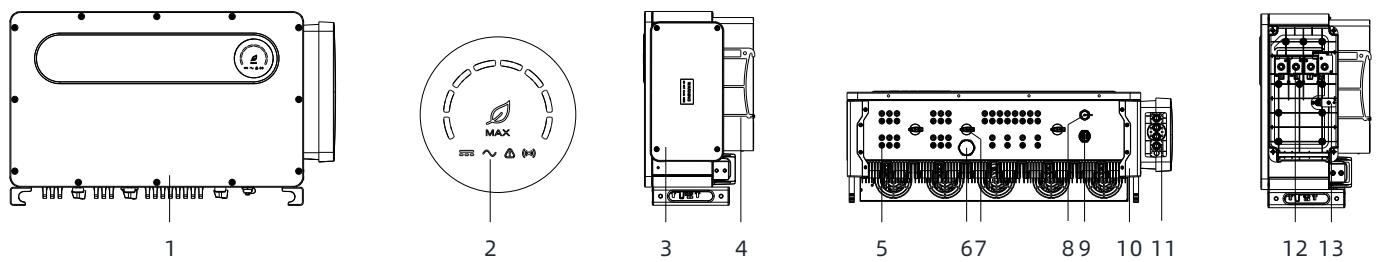


1. Overview

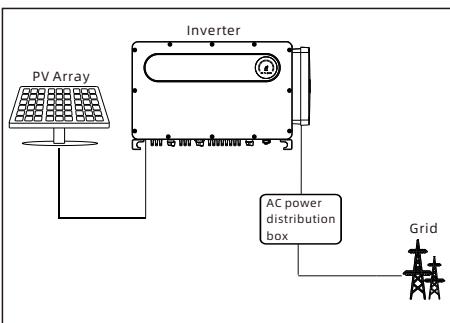


⚠ Note:

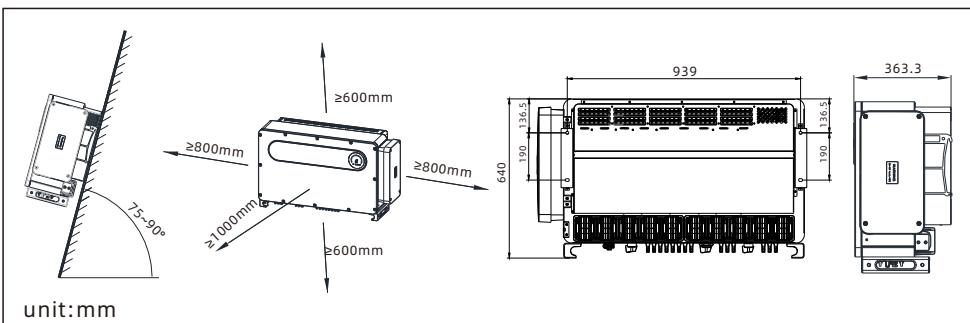
1. This document is for quick installation guidance only. Please refer to User Manual for more details.
2. Growatt shall not be liable for any damage resulting from improper installation.

2. Installation

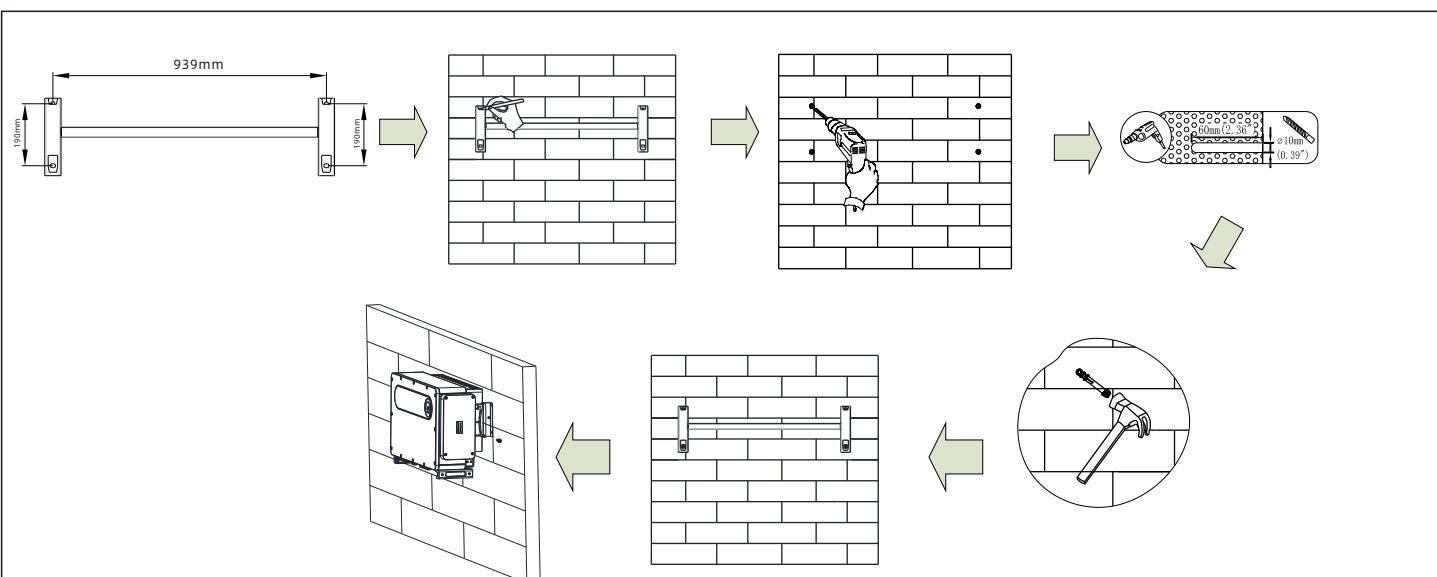
2.1 System overview



2.2 Installation requirements



2.3 Wall-mounted installation

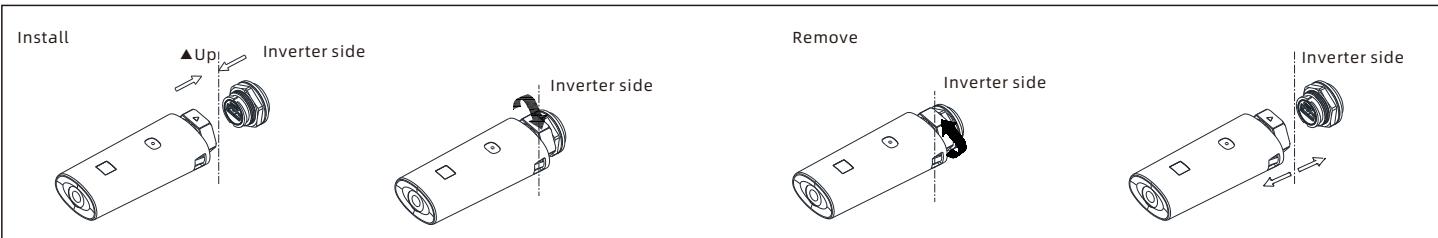


⚠ Note:

Please choose a wall with a thickness of more than 100mm, and use a $\phi 10$ drill bit to drill holes to a depth of 60 mm in the wall-mounted installation location.

unit: mm

2.3 Communication module installation



3. Electrical connection

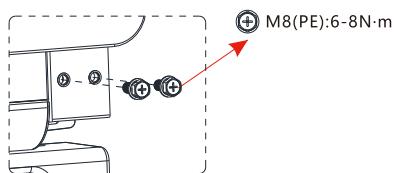
Please prepare the following cables before electrical connections.

No.	Cable name	Type	Recommended specifications (Copper wire)	Recommended specifications (AL. wire)
1	Protective grounding wire	A multi-core yellow-green wire	50mm ²	70mm ²
2	AC output wire	A multi-core wire	95mm ² -300mm ²	120mm ² -300mm ²
3	PV input wire	A multi-core wire	4mm ² - 6mm ²	/
4	Communication wire	RS485	/	/

Note:

1. Please make sure all switches are in "OFF" position before wiring. For personal safety, please do not operate with electricity.
2. If the diameter of the cable does not match the terminal, or the cable is aluminum wire, please contact our after-sales personnel.

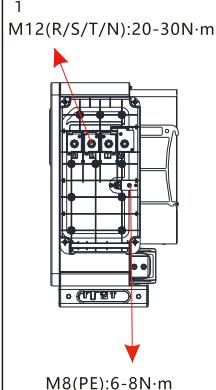
3.1 Grounding



Note:

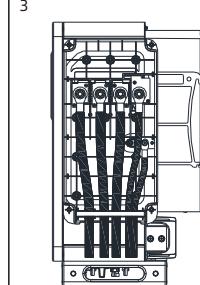
1. The built-in grounding copper bar is only used as an equipotential connection point for the protective ground. It cannot be used as a substitute for the protective grounding point of the inverter housing.
2. It is recommended that the PE cable of the inverter be connected to a nearby ground point. For a system with multiple inverters connected in parallel, connect the ground points of all inverters to ensure equipotential connections to ground cables.

3.2 AC output connection



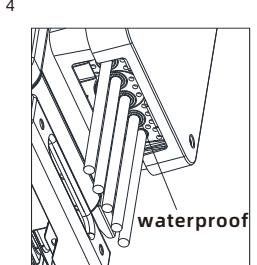
Note:

- The OT/DT terminals need to be prepared by the user. Make sure the terminal and cable are well connected.



Note:

- Make sure that the terminals and cables are well crimped.

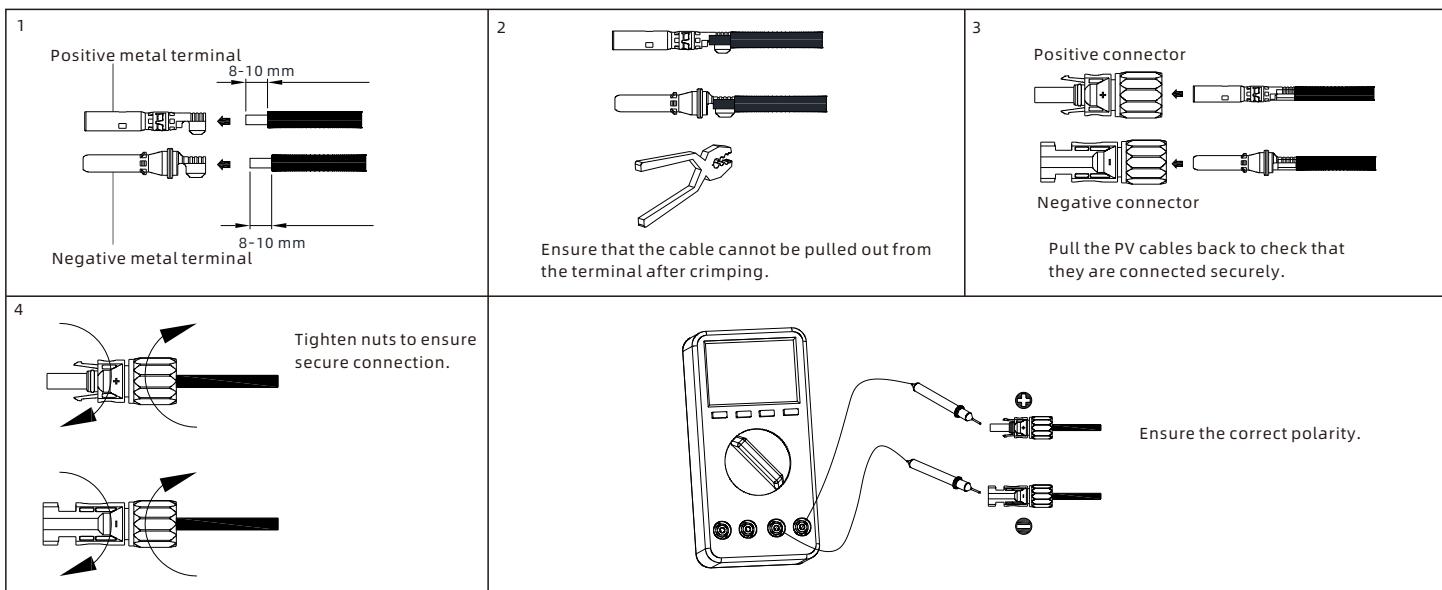


Note:

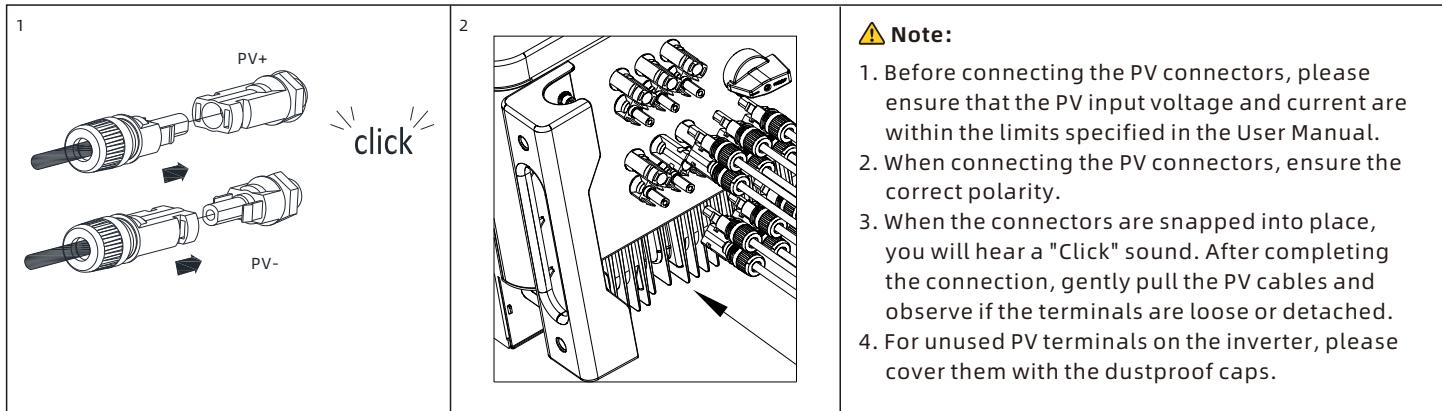
- The waterproof joint must be blocked with fireproof mud to prevent water from entering.

3.3 DC connection

3.3.1 Assemble the PV connectors



3.3.2 Install the PV connectors



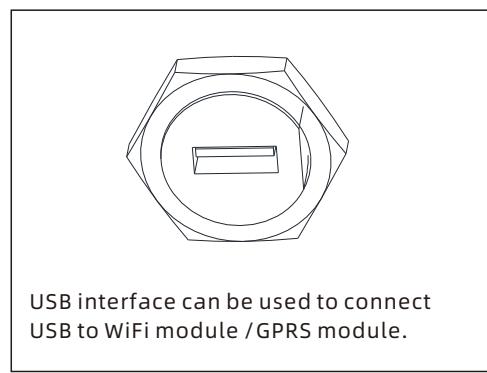
3.3.3 Communication cable installation

3.3.3.1 RS485 installation

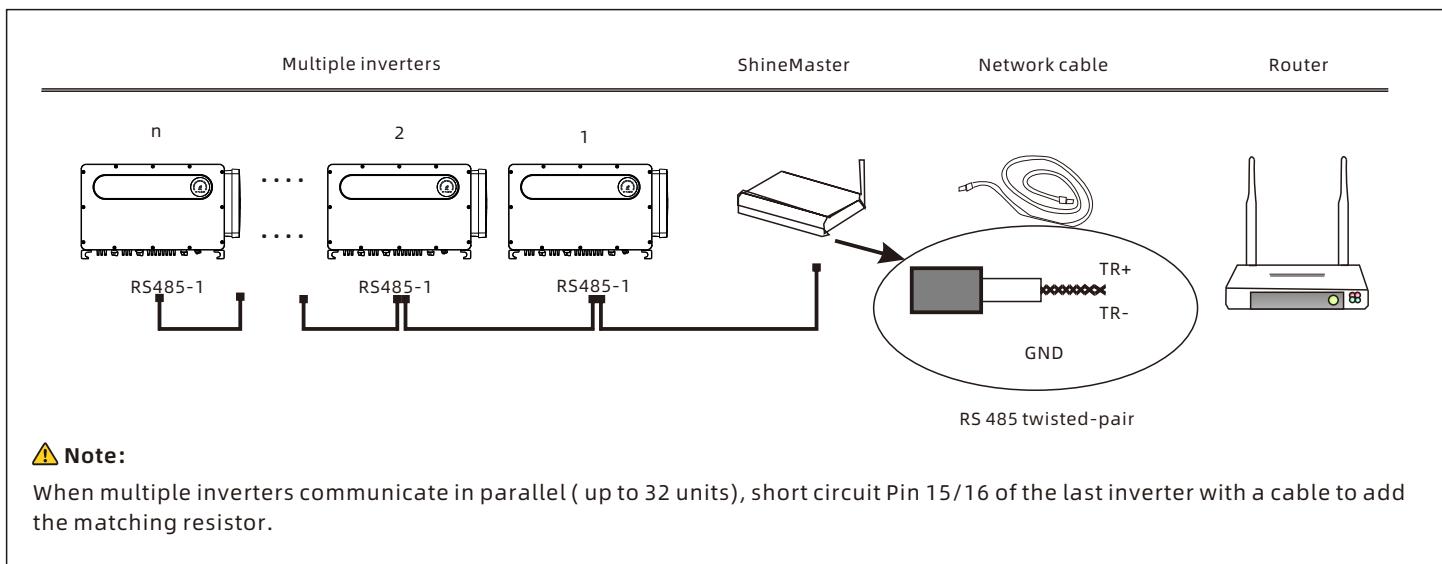
No.	Description	No.	Description
1/2	485-1/485-2 Shield	9	DRM1/5
3	485-1 A1	10	DRM2/6
4	485-1 B1	11	DRM3/7
5	485-1 A1	12	DRM4/8
6	485-1 B1	13	REE/GEN
7	485-2 A1	14	DRM0/COM
8	485-2 B1	15/16	485-1 matching resistor

Note: When multiple inverters (up to 32 units) are connected, the matching resistors should be added.

3.3.3.2 USB installation



3.3.3.3 Parallel system



4. Post-installation check

No.	Acceptance criteria	No.	Acceptance criteria
1	The inverter is installed correctly, firmly and reliably.	6	The RS485 communication cable is installed correctly and firmly.
2	The PE cable is installed correctly and securely.	7	Cable ties are neatly cut without sharp burs.
3	All switches are in the OFF state.	8	All unused/vacant ports are sealed.
4	All cables are connected correctly and securely.	9	Post-installation cleanup.
5	Cable routing is proper and meets all requirements. No damaged or skin-scratched cable is used.		

5. Power on/off the inverter

⚠ Note:

Before powering on the inverter, ensure that all voltages are within the specified range; otherwise, it might cause device damage.

Procedures to power on the inverter:

1. Turn on the breaker between the inverter and the grid.
2. Turn on the switch between the inverter and the PV strings.
3. For details about configuring the inverter, please refer to the User Manual.

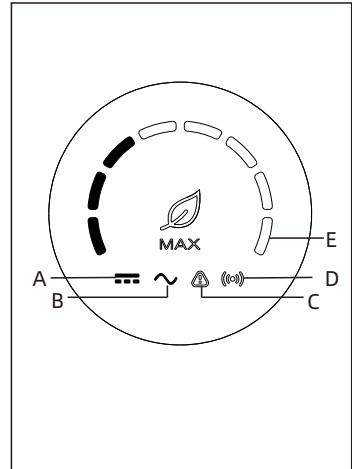
Procedures to power off the inverter:

1. Shut down the inverter remotely via the APP.
2. Turn off the switch between the inverter and the PV strings.
3. Turn off the breaker between the inverter and the grid.

6. Status of PV grid inverter

Customer can read more information by LED. Follow are the instruction of LED:

Indicator	Function	State	Instructions
A	PV voltage indicator	Steady green	PV voltage $\geq 190V$
B	AC voltage indicator	Steady green	Inverter is in the on-grid state
		Flashing green	Inverter grid connection countdown /Fault state
C	Alarm / fault indicator	Flashing red slowly	Inverter warning
		Steady red	Inverter fault
D	Communication indicator	Steady green	Communication is normal
E	Power indicator	Steady green	Denote the inverter power with the 8 LEDs
	Fault code indicator	Steady green	For details, please refer to the User Manual



7. Service and contact

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