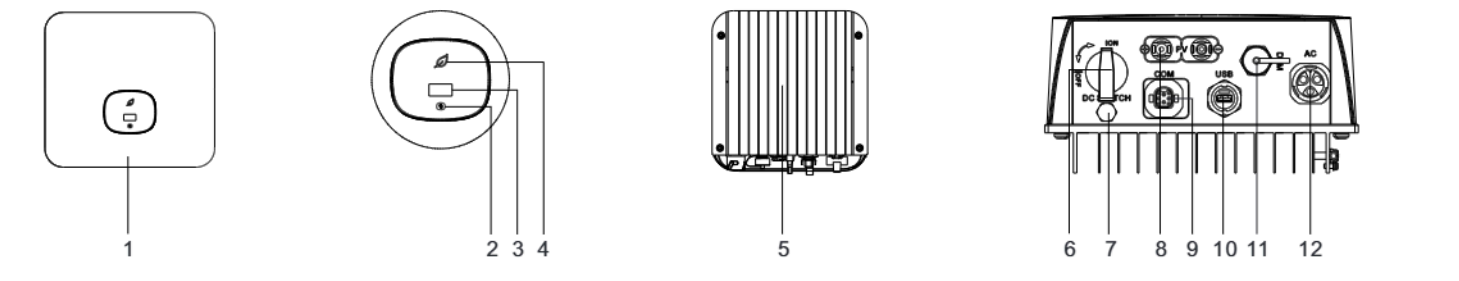


1. Overview



(1)Front panel

(2)Touch button

(3)OLED screen

(4)LED indicator

(5)Heat sink

(6)DC switch

(7)Vent valve

(8)PV terminal

(9)COM port

(10)USB port

(11)DRM port

(12)AC terminal

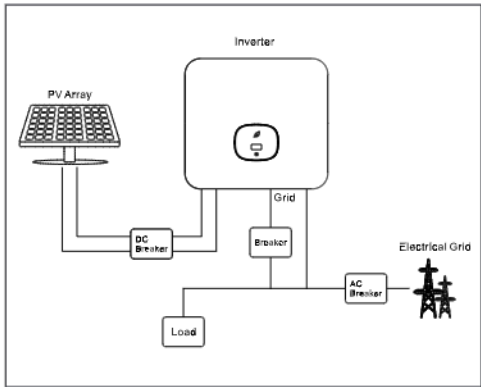
Note:

1.This document is for quick installation guidance only, please refer to User Manual for more details.

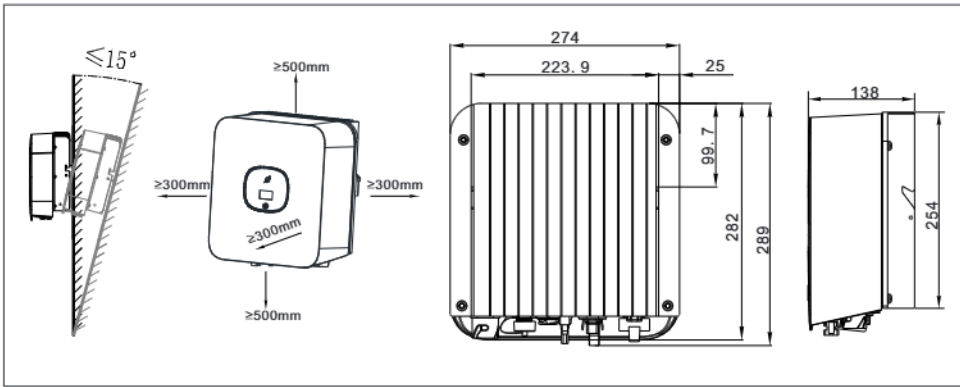
2.Growatt shall not be liable for any damage resulting from improper installation.

2. Installation

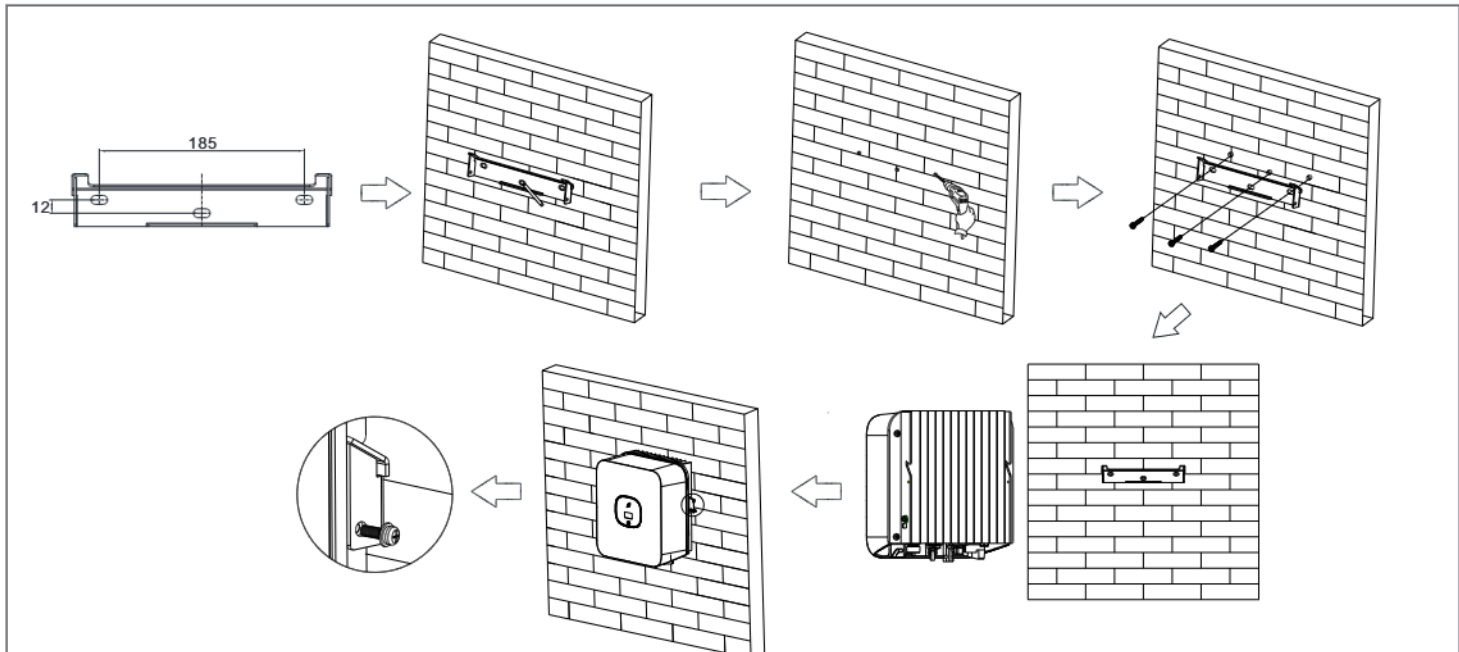
System overview



2.1 Installation requirements



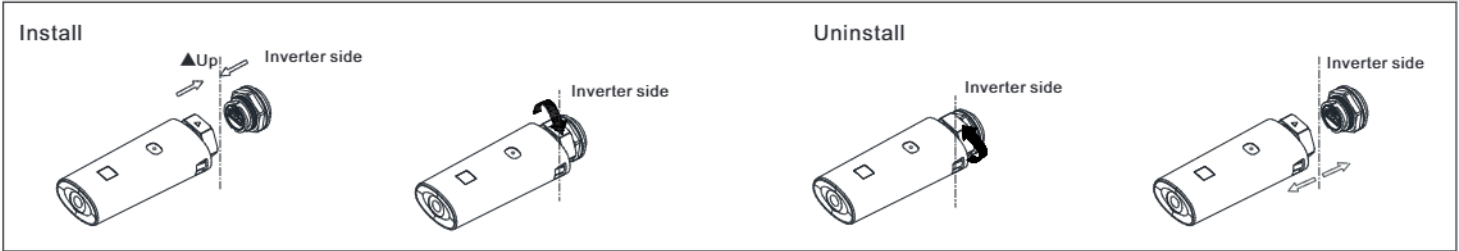
2.2 Wall mounting



Note:

1.When drilling holes in the wall, avoid water and electricity pipes, otherwise it may cause danger.

2.3 Communication module installation



3. Electrical connection

Please prepare the cable before connecting as follows.

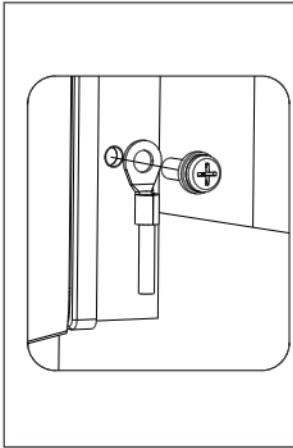
No.	Cable name	Type	Recommend model
1	Protective grounding wire	Single multi-core yellow-green wire	6mm²
2	AC output wire	Two or three polychromatic multi-core copper wires	6mm²
3	PV input wire	PV wire (such as PV1-F)	4mm² - 6mm²
4	Communication wire	RS485	/

Note:

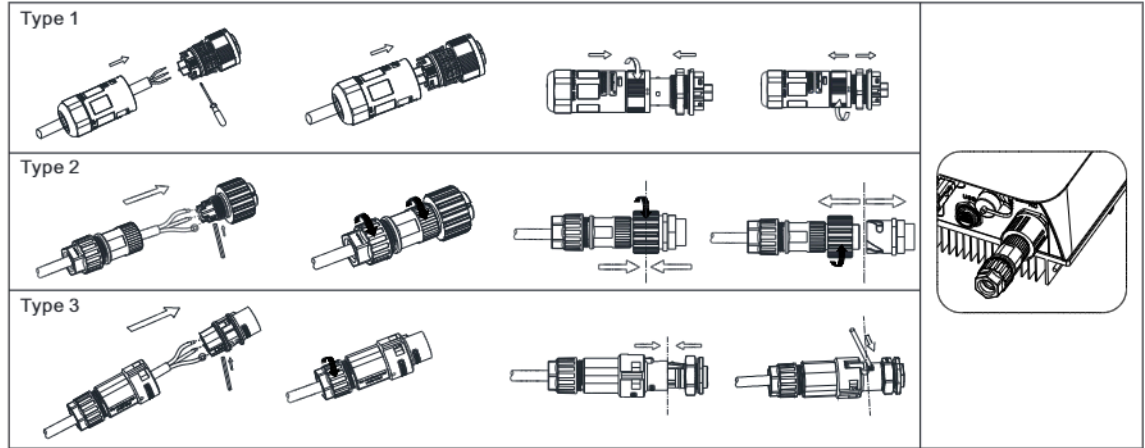
1.Please make sure all switches are in "OFF" position before wiring. For personal safety, please do not operate with electricity.

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



3.2 AC output connection



3.3 DC connection

3.3.1 PV input terminal installation

1

Positive metal terminal

8-10mm

4mm² - 6mm²

Negative metal terminal

2

Please make sure the cable can not be pulled out after pressing.

3

Negative metal terminal

Pull the PV cable make sure there is no loose or shaking.

4

Positive metal terminal

Negative metal terminal

5

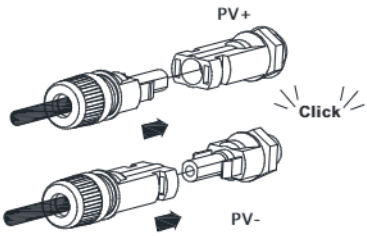
Make sure the cable polarity is correct and voltage is less than 500 or 550V.

Note:

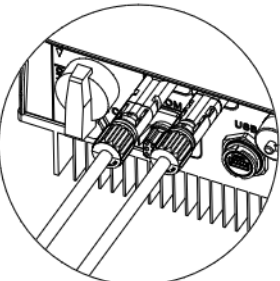
1.When drilling holes in the wall, avoid water and electricity pipes, otherwise it may cause danger.

3.3.2 Plug in PV terminal

1



2



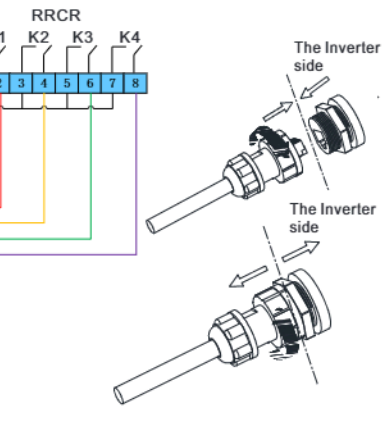
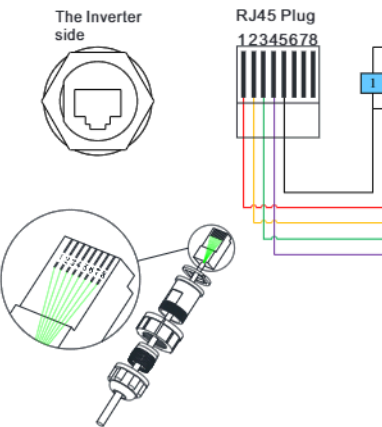
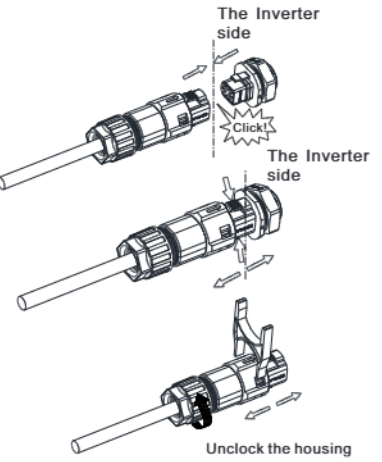
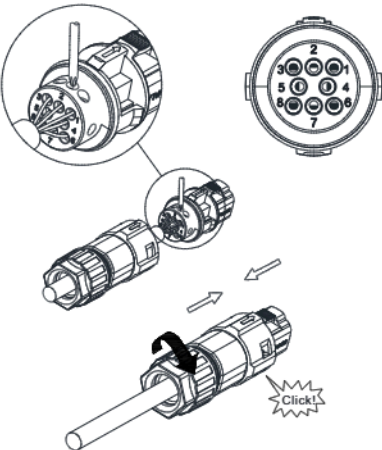
Note:

1.Before installing the PV terminal, please double-check that the PV input voltage and current do not exceed the MPPT limits.

2.When installing the PV terminal, pay attention to the difference between the positive and negative poles and the one-to-one correspondence between the terminals and the machine.

3.There is a "click" sound when the terminal is connected,please gently pulling the PV wire to make sure there is no loose or

3.3.3 Communication cable installation



COM Port Pin Definitions			
COM Port	Definition		
1	NA	This pin is no signal	
2	NA		
3	RS 485A1	Signal for communication	
4	RS 485B1		
5	CT-P	Signal for export limitation (Optional)	
6	CT-N		
7	RS 485A2	Signal for smart meter	
8	RS 485B2		

DRM port Pin Definitions			
Rj45 Plug	RRCR Definition	Active power	DRM Definition
1	K1-Relay 1 output	0	DRM5
2	K2-Relay 1 output	30%	DRM6
3	K3-Relay 1 output	60%	DRM7
4	K4-Relay 1 output	100%	DRM8
5	Relays common node	/	REFGEN
6	Not connecte	/	COM/DRM0
7	Not connected	/	/
8	Not connected	/	/

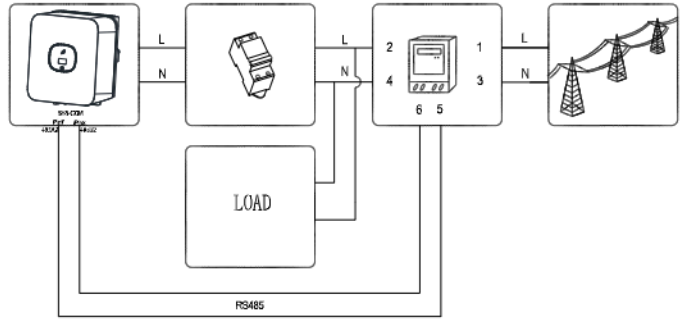
Note:

1.When laying out signal cables, separate them from power cables to avoid strong signal interference sources

2.Do not mix the connector to the DRM port and the connector to the COM port.

4. Connecting Meter

The following table describes how we can connect EASTRON meter (SDM120CT-M(40mA))to inverter:



Meter Pin NO.	Description	Meter Connection
1	L-in	Grid L
2	L-out	AC connector & Load L
3	N-in	Grid N ^e
4	N-out	AC connector & Load N
5	RS485A	COM Pin 7 RS485A2
6	RS485B	COM Pin 8 RS485B2

Note: ①For Australian market, installers can connect pin3 or pin4 to the neutral links/bars.

5. 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 ground wire connected well and the connection is firm and reliable.	7	The cable tie port is trimmed well without leaving sharp corners,meets the requirements of the user.
3	All switches are in the OFF state.	8	All exposed terminals are well protected and there are no vacant ports.
4	All wiring is correct and securely connected.	9	Pay attention to clean up all construction residues.
5	The wiring of the cable is reasonable, meets the requirements, and there is no phenomenon of broken skin.		

6. Power on and off steps

Note:

Before turning the inverter on, please make sure the PV input voltage and current are within the MPPT limits.

Follow the steps below to turn the inverter on:

- 1.Switch on the build-in DC isolator at the bottom of the inverter.
- 2.Switch on the PV Array and DC isolator next to your inverter, if you can not find this switch, skip this step.
- 3.Switch on the Solar AC isolator if the inverter is more than 3 meters away from your switchboard.
- 4.Switch on the solar supply main switch in the switch board.

To shut down your system, follow this guide in reverse order

7. Status of PV grid inverter

Customer can read more information by push button.

Mark	Describe	Explain	
	Touch mark	Single touch	Switch the display interface or the current number plus 1
		Double touch	Enter the setting state or confirm
		Triple touch	Return to the previous display interface
		Long press for 5s	Confirm Country setting or Number recover default value
	Inverter status indicator	Red	Fault
		Green	Normal operation
		Red light flashing	Warning
		It can display the basic information of inverter through OLED display screen (PV/AC voltage,PV power,ACcurrent,total power,generating capacity, etc.).	

8. Export limitation setting



Under the permission given by your energy provider, the ratio of your system output power divided by the rated power of the inverter is called Export Limit Rate. For instance, if the energy provider only accepts 2.4kW from your 3kW system, then the Export Limit Rate of 3kW inverter is 80.0%.

9. Service and contact

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