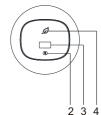
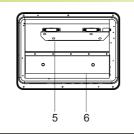


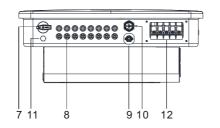
MID 33-50KTL3-X2 Quick Guide

1. Overview









(1)Front panel (6)Heat sink

(2)Touch button (7)DC switch

(3)LCD screen (8)PV terminal

(4)LED indicator (9)RS485 port

(5) Mounting bracket (10)USB port

(11)Vent valve (12)AC terminal

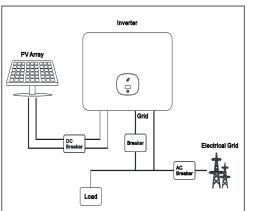
⚠ Note:

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

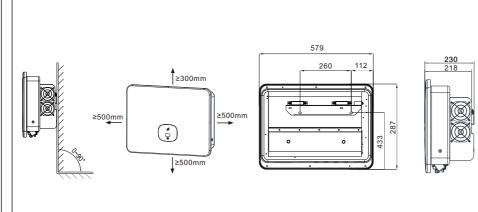
2. Growatt shall not be liable for any damage resulting from unproper installation.

2. Installation

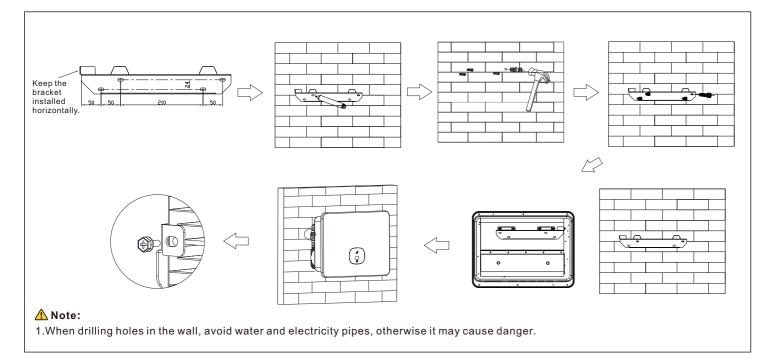
System overview



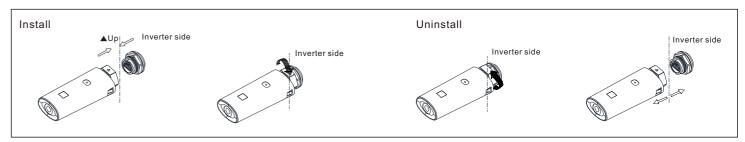
2.1 Installation requirements



2.2 Wall mounting



2.3 Communication module installation



3. Electrical connection

Please prepare the cable before connecting as follows.

No.	Cable name	Туре	Recommend model
1	Protective grounding wire	Single multi-core yellow-green wire	16mm² - 20mm²
2	AC output wire	four or five polychromatic multi-core copper wires	30mm² - 35mm²
3	PV input wire	PV wire (such as PV1-F)	4mm² - 6mm²
4	Communicatio wire	RS485	1

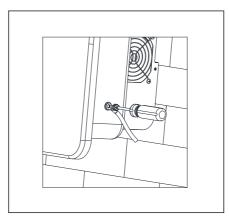
⚠ Note:

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

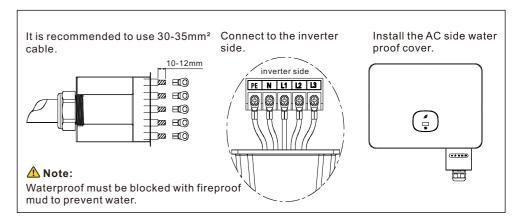
2. If the diameter of the cable does not match the terminal, or the cable is aluminum wire,

please contact our after-sales personnel.

3.1 Grounding

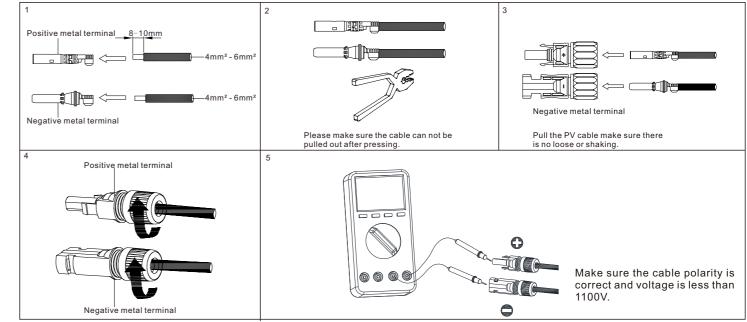


3.2 AC output connection

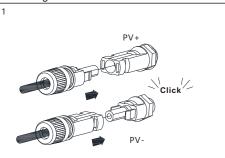


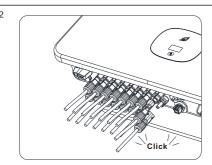
3.3 DC connection

3.3.1 PV input terminal installation



3.3.2 Plug in PV terminal

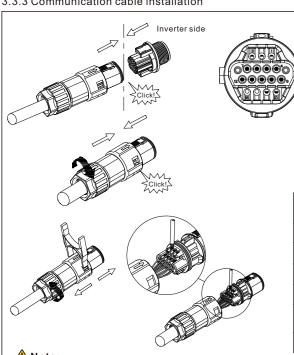


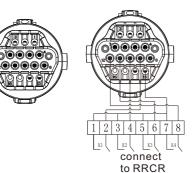


Note:

- 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-toone 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 pulling off.

3.3.3 Communication cable installation





10 KRCK			
No.	RRCR Description	Active Power	
9	K1-out	0%	
10	K2-out	30%	
11	K3-out	60%	
12	K4-out	100%	
13	Relays common node	/	
14	/	/	

13

REF/GEN

DRM0/COM

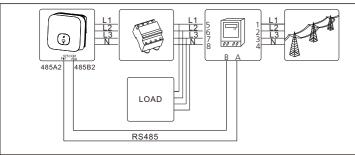
No. Description Remarks Dry junction: external +12V relay coil interface, power is not more than 2 COM 3 RS485A1 RS485 communication port RS485B1 5 RS485A2 BAT communication port(reserved) 6 RS485B2 RS485A3 Meter communication port RS485B3 9 DRM1/5 Relay contact 1 input 10 DRM2/6 Relay contact 2 input 11 DRM3/7 Relay contact 3 input 12 DRM4/8 Relay contact 4 input

GND

When connecting the communication line, port 15 and 16 are not connected, as for the other function, please refer to the above table according to the customer needs.

4. Connecting Meter

The following table describes how we can connect EASTRON meter (TPM-E)to inverter:



Meter Pin NO.	Description	Meter Connection	
1/2/3/4	1/2/3/4 L1/L2/L3/N-in Grid L1/L2/L3/N		
5/6/7/8	L1/L2/L3/ N-out	AC connector & Load L1/L2/L3/N	
А	RS485A	COM Port Pin 7 RS485A3	
В	RS485B	COM Port Pin8 RS485B3	

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

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:

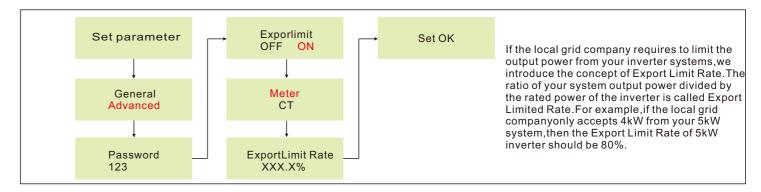
- 1. Switch on the build-in DC isolator at the bottom of the inverter.
- 2. Switch on the PV Array and DC isolator next to your inverter, if you can not find this switch, skip this step.
- 3. Switch on the Solar AC isolator if the inverter is more than 3 meters away from your switchboard.
- $4. Switch \, on \, the \, solar \, supply \, main \, switch \, in \, the \, switch \, board.$
- 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	The current data returns to the default value
	Inverter status indicator	Red	Fault
		Green	Normal operation
		Red light flashing	Warning
•		It can display the basic information of inverter through LCD display screen (PV/AC voltage,PV power,AC current,total power,generating capacity, etc.).	

8. Export limitation setting



9. Service and contact

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Manual









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