

1. Overview



(1)Front panel (6)Heat sink

(2)Touch button (7)DC switch

(3)LCD screen (8)PV terminal

(4)LED indicator (9)Battery terminal

(5)Mounting bracket (10)COM port

(11)USB port (12)Vent valve (13)AC terminal

MOD 3-10KTL3-XH Quick Guide

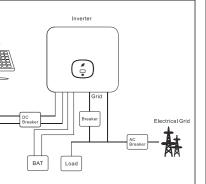
⚠ Note:

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

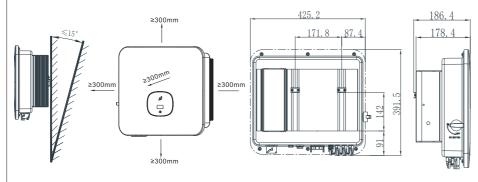
2. Growatt shall not be liable for any damage resulting from unproper installation.

2. Installation

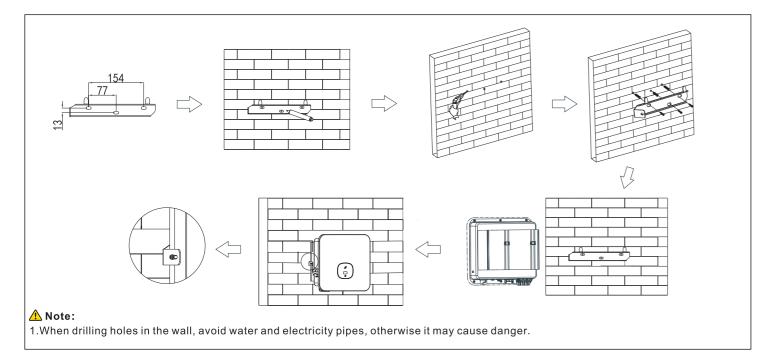
System overview



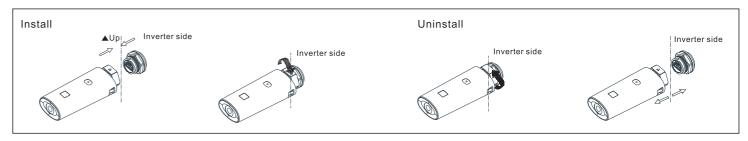
2.1 Installation requirements



2.2 Wall mounting



2.3 Communication module installation



3. Electrical connection

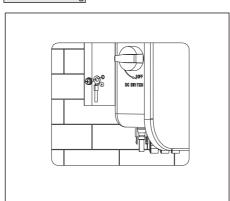
Please prepare the cable before connecting as follows.

No.	Cable name	Туре	Recommend model
1	Protective grounding wire	Single multi-core yellow-green wire	6mm²-10mm²
2	AC output wire	Two or three polychromatic multi-core copper wires	6mm²-10mm²
3	PV input wire	PV wire	4mm² - 6mm²
4 Battery input wire		Battery wire	4mm² - 6mm²
5	Communication wire	RS485	/

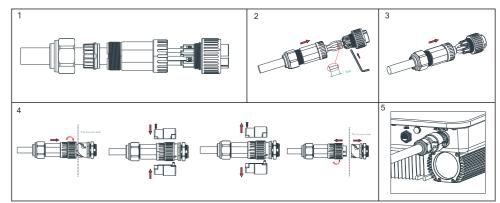
⚠ Note:

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

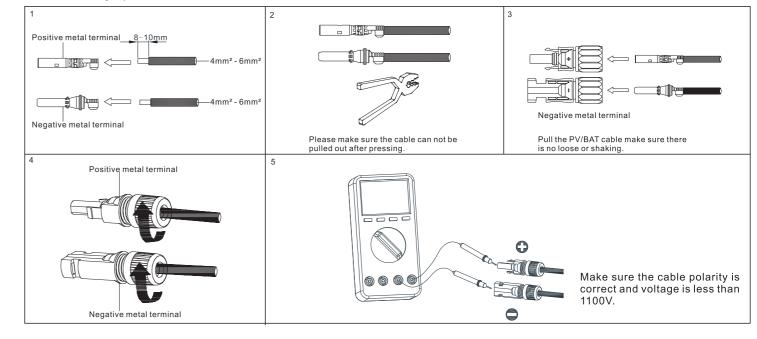


3.2 AC output connection

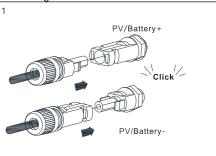


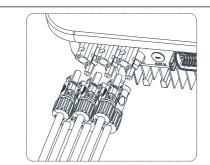
3.3 DC connection

3.3.1 PV/Battery input terminal installation



3.3.2 Plug in PV /BAT terminal





Active

Power

0%

30%

60%

100%

13

14

15

K3-out

K4-out Relays

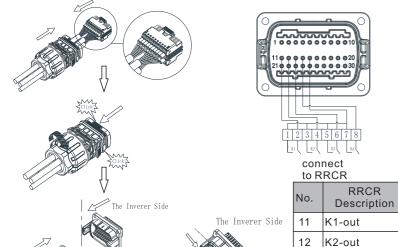
common node

No. Description

- 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

Remarks

3.3.3 Communication cable installation



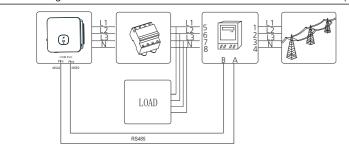
	1	+12V	Dry junction : external relay coil interface,	
	2	СОМ	power is not more than 2W	
	3	RS485A1	RS485 communication	
	4	RS485B1	port	
	5	RS485A3	Meter communication	
Ī	6	RS485B3	port	
	7	RS485A2	Battery communication	
	8	RS485B2	port	
	9	BAT.EN+	Pattory wake up signal	
	10	BAT.EN-	Battery wake-up signal	
	11	DRM1/5	Relay contact 1 input	
	12	DRM2/6	Relay contact 2 input	
	13	DRM3/7	Relay contact 3 input	
	14	DRM4/8	Relay contact 4 input	
	15	REF/GEN	GND	
	16	DRM0/COM	/	
	17	RS485A4	Backup box	
	18	RS485B4	communication	
	19	CAN_H	0.4.1.	
	20	CAN_L	CAN communication	
	18 19	RS485B4 CAN_H		

4. Connecting Meter

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

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.



Meter Pin NO.	Description	Meter Connection	
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 5 RS485A3	
В	RS485B	COM Port Pin 6 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.

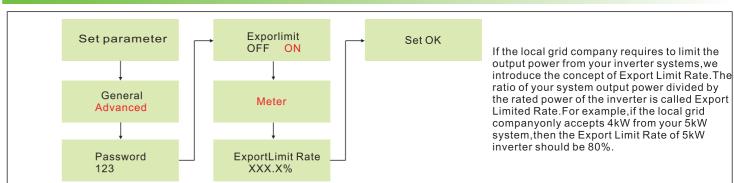
- Follow the steps below to turn the inverter on:
- 1. Switch on the build-in DC isolator at the bottom of the inverter.
 2. Switch on the PV Array and DC isolator next to your inverter, if you can not find this switch, skip this step.
- 3. Switch on the Solar AC isolator if the inverter is more than 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
		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









