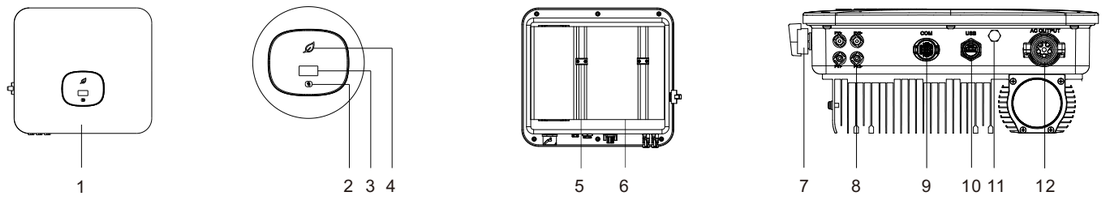
GROWATT

MOD 3-15KTL3-X2 (Pro) Quick Guide

1. Overview



(1) Front panel	(2) Touch button	(3) LCD screen	(4) LED indicator	(5) Mounting bracket
(6) Heat sink	(7) DC switch (optional)	(8) PV terminal	(9) RS485 port	(10) USB port
(11) Vent valve	(12) AC terminal			

⚠ **Note:** The MOD 3-15KTL3-X2(Pro) has two MPPTs, with one string per MPPT channel.

⚠ **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

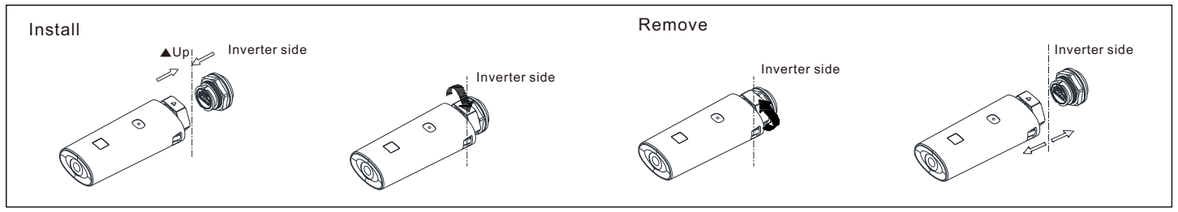
2.1 Installation requirements

2.2 Wall-mounted installation

⚠ **Note:**

1. When drilling holes in the wall, avoid water pipes and electrical wiring; otherwise, it might cause personal injury.

2.3 Communication module installation



3. Electrical connection

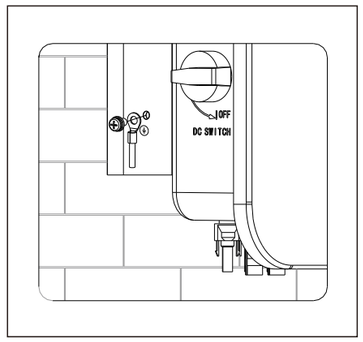
Please prepare the following cables before the electrical connection.

No.	Cable name	Type	Recommend model
1	Protective grounding wire	A 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	/

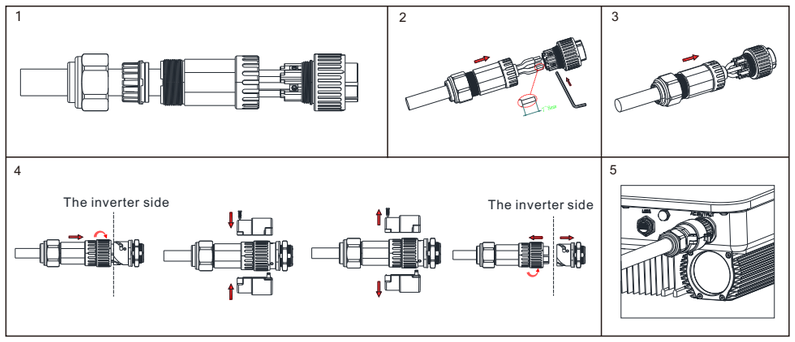
⚠ **Note:**

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 an aluminum wire, please contact our after-sales personnel.

3.1 Grounding

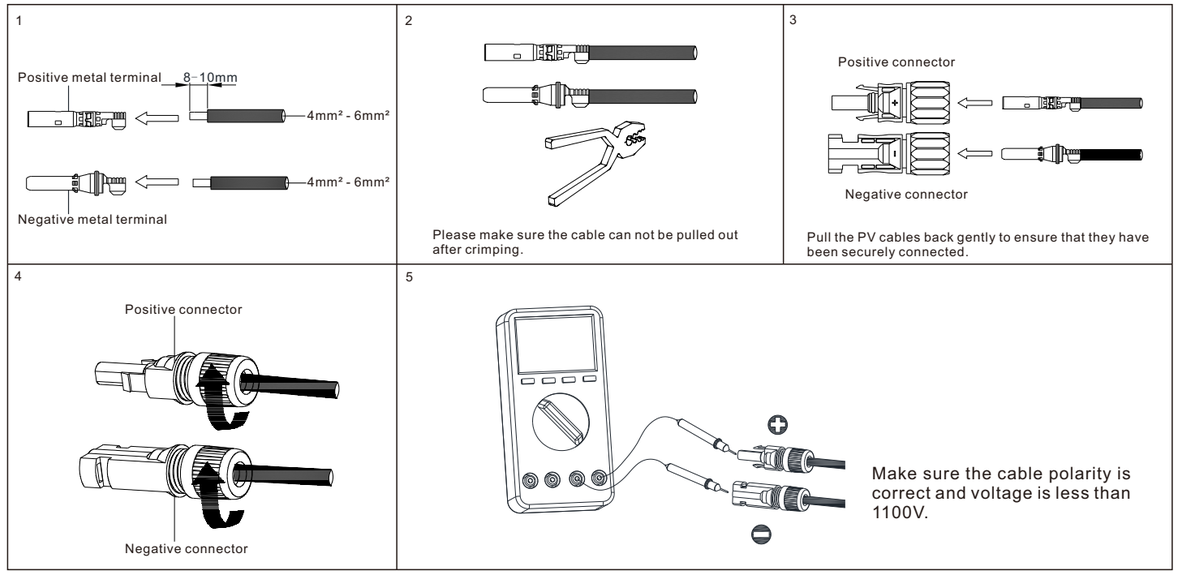


3.2 AC output connection

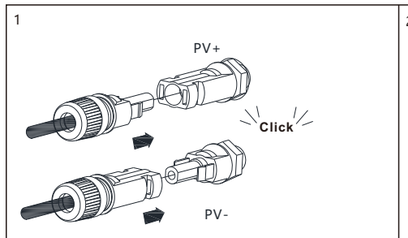


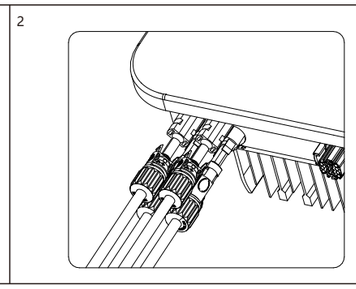
3.3 DC connection

3.3.1 Assembling the PV connectors



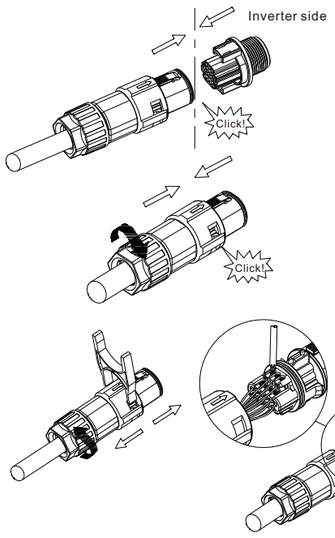
3.3.2 Plugging in the PV connectors

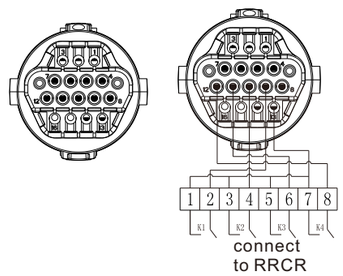




⚠Note:
1. Before installing the PV connectors, ensure that the PV input voltage and current do not exceed the MPPT limits.
2. When installing the PV connectors, ensure the correct polarity.
3. Make sure that you hear a "Click" sound. Pull slightly on the cable to ensure that it is securely in place.

3.3.3 Communication cable installation





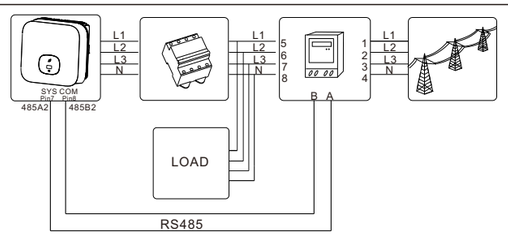
No.	RRCR Description	Active Power
9	K1-out	0%
10	K2-out	30%
11	K3-out	60%
12	K4-out	100%
13	Relays common node	/
14	/	/

No.	Description	Notes
1	+12V	Dry contact: external power source should be less than 2W
2	COM	
3	RS485A1	RS485 communication port
4	RS485B1	
5	RS485A2	BAT communication port (reserved)
6	RS485B2	
7	RS485A3	Meter communication port
8	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
13	REF/GEN	GND
14	DRM0/COM	/

⚠Note:
When connecting the communication cable, please reserve Port 15 and Port 16. For other functions, you can refer to the table above.

4. Connecting the meter

The following figure and table show the way to connect the EASTRON meter (TPM-E) to the inverter:



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
A	RS485A	SYS COM Pin 7 RS485A2
B	RS485B	SYS COM Pin 8 RS485B2

5. Post-installation check

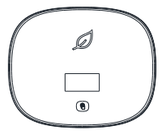
No.	Acceptance criteria	No.	Acceptance criteria
1	The inverter is installed correctly, firmly and reliably.	6	The RS485 communication cable is installed correctly and firmly.
2	The ground wire is correctly connected and the connection is firm and reliable.	7	Cable ties are neatly cut without sharp burs.
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	Clean up all installation residues.
5	All cables are properly routed and comply with the requirements. No cable is damaged.		

6. Powering on/off the inverter

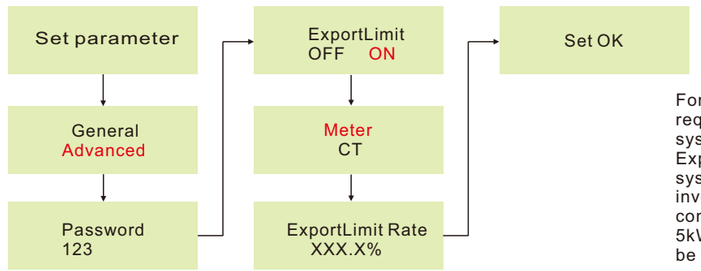
⚠Note:
Before turning the inverter on, please make sure the PV input voltage and current are within the MPPT limits.
Follow the steps below to turn the inverter on:
1. Switch on the built-in DC switch at the bottom of the inverter (If you can not find this switch, skip this step).
2. Switch on the circuit breaker at the inverter output side.
3. Switch on the switch at the grid connection point.
When shutting down the inverter, please ensure that the AC breaker has been turned off before switching off the DC switch on the inverter.

7. Status of PV grid inverter

You can view more information by tapping the button.

Symbol	Designation	Description	
	Touch button	Single tap	Switch the display or increase the value by one
		Double tap	Enter the setting state or confirm
		Triple tap	Return to the previous interface
		Long press for 5s	Restore the selected value to factory default
	Inverter status indicator	Red	Fault
		Green	Normal operation
		Green light flashing	Warning
		The LCD screen displays some basic information, including the PV/AC voltage, PV power, AC current, total power and energy yield.	

8. Export limitation setting



For cases where the local grid company requires to limit the power output of your PV system, we introduce the concept of the Export Limit Rate, which is the ratio of your system output power to the rated power of the inverter. For example, if the local grid company only allows 4kW power from your 5kW system, then the Export Limit Rate should be set to 80%.

9. Service and contact

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