GROWATT

MIN 3000-11400TL-XH-US Quick Guide

1. General information-specification



Note:

Before installing the device, check that the package contents are intact and complete against the packing list. If any damage is found or any component is missing, contact your dealer.
This file will be updated from time to time due to product upgrades or other reasons. Unless otherwise agreed, this document is intended as a

guide only. All information and suggestions do not constitute an express or implied warranty. The final interpretation of the content is at GROWATT. 3.This document is for quick guidance installation only. For details, please refer to the User Manual. 4. Machine damage caused by failure to follow the content is not covered by the warranty.

2. Installation



2.2 Wall mounting



3.Electronic connection

Please prepare the cable before connecting as follows.

No.	Cable name	Туре	Recommend model
1	Grounding wire	Single multi-core yellow-green copper wire	AWG10≤Wire diameter≤AWG8
2	AC output wire	Two or three different color multi-core copper wires	AWG8≤Wire diameter≤AWG6
3	PV input wire	Photovoltaic dedicated cable(such as PV1-F)	AWG10≤Wire diameter≤AWG8
4	Battery input wire	Red and black multi-core copper	AWG10≤Wire diameter≤AWG8
5	Other communication	CAT5E suggested	1





3.3 DC connection

3.3.1 PV and Battery input terminal installation

1.Strip 0.59 inches (15mm) of the PV and Battery power cable insulation. 2. Insert the conduit into the DC-side drill guide that was opened. 3. Insert the 0.6*3.5 mm standard flat-blade screwdriver and press the release mechanism and open the clamp. 4. Connect the cable to the appropriate terminal blocks according to the labels on the terminal blocks (PV+1/2/3/4, PV-1/2/3/4,BAT+,BAT-).

5. Insert the cable into the round opening and remove the screwdriver, then the cable is automatically clamped. 6.Connect the PE to the Grounding terminal. Note: Forbidden to reverse the positive and negative poles of the Battery input terminal!



\Lambda Note

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

1.Strip 0.7 inches (18mm) of the AC cable insulation. 2.Insert the AC conduit into the AC-side drill guide

that was opened. 3.Insert the 0.8*4.0 mm standard flat-blade

screwdriver and press the release mechanism and open the clamp.

4.Connect the cable to the appropriate termina blocks according to the labels on the terminal blocks(L1,N,L2,of AC Grid).

5.Insert the cable into the round opening and remove the screwdriver, then the cable is automatically clamped.

6.Connect the PE to the Grounding terminal.





1.Insert the conduit into the right side COM drill guide that was opened. 2.Insert the cable through the conduit to the inverter wiring box. 3.Remove the cable's external insulation using a crimping tool or cable

4.Loosen the screws of the 6-pin RS485 terminal block connector. 5.Insert the wires into the RS485A2, GND,RS485B2 pins shown above. Use four or six wire twisted pair cable for this connection. The same color wire is used for all A2 pins, the same color for all B2 pins and the same color for all GND pins. The wire for GND is not necessary.

3.5 Battery communication cables installation



1.Insert the conduit into the right side COM drill guide that was opened. 2.Insert the CAT 5/6 cable through the conduit to the

inverter wiring box.

3.Remove the cable's external insulation using a crimping tool or cable cutter and expose eight wires. 4.Insert the eight wires into an RJ45 connector, as

described in the left Figure. 5.Use a crimping tool to crimp the connector. 6.Connect the signal cable from the battery to the

RJ45 port on the communication board.

RJ45	Wire Color		Signal	Function	RJ45	Wire 0	Color	Signal	Function
Pin #	T568B	T568A	definition	Fuction	Pin #	T568B	T568A	definition	Fuction
1	White/Orange	White/Green	Enable-	Battery wake-up	5	White/Blue	White/Blue	GND	GND
2	Orange	Green	Enable+	signal	6	Green	Orange	Received-	NC
3	White/Green	White/Orange	CANL	Battery CAN	7	White/Brown	White/Brown	RS485B	Battery RS485
4	Blue	Blue	CANH	communication	8	Brown	Brown	RS485A	communication

3.6 Communication cables installation between MIN TL-XH-US inverter and SYN 200-XH-US

1. Insert the conduit into the left side COM drill guide that was opened.

2. Insert the signal cable through the conduit to the inverter wiring box.

3.Remove the cable's external insulation using a crimping tool or cable cutter.

4.Insert the signal cable into MIN TL-XH-US inverter RS485 connector, as described in follow Figures. 5.Insert the signal cable into SYN 200-XH-US RS485 connector, as described in follow Figures.

6. Connect the signal cable from MIN TL-XH-US inverter RS485 port to SYN 200-XH-US RS485 port .





4. Checking before power on

No.	Check Item	Acceptance Criteria		Check Item	Acceptance Criteria				
1	Inverter installation	The inverter is installed correctly, securely, and reliably.	6	Cable connections	The AC output power cable, DC input power cable, battery cable, and signal cable are connected correctly, securely, and reliably.				
2	Cable layout	Cables are routed properly as required by the customer.	7	Unused terminals and ports	Unused terminals and ports are fitted with waterproofing bolts or watertight caps or drill guide unopended.				
3	Cable tie	Cable ties are secured evenly, with no sharp protrusions.	8	Cable routing pipe sealing	All cable routing pipes at the bottom of the enclosure are sealed.				
4	Grounding	The ground cable is connected correctly, securely, and reliably.	9	Cleanliness in the maintenance compartment	The maintenance compartment interior is clean and tidy.				
5	Switches	The DC switch and all the switches connecting to the MIN TL-XH US are in the OFF position.	10	Installation environment	An appropriate installation space has been chosen, and the installation environment is clean and tidy.				

5. Power on/off the inverter

Before power on, please make sure all of the voltage and current are in the range of specification of the inverter. Otherwise it will be damage to the inverter.

- The steps of turn on the inverter as follow:
- . Turn on the switch between battery and the inverter.
- 2. Turn on the PV switch.
- 3. Turn on the Battery switch.
- 4. Turn on the switch between Grid and the inverter.
- 5. If need to setup the inverter, please turn to user manual of the inverter for detail description.
- 6. The shutdown steps are opposite to the above order.

6. Status of the inverter

MIN TL-XH-US inverters come with four LED indicators. From the front cover left to right, it shows the indicator of Power, Comm, Battery status, and Error.

Fuction	Color	Status	Action	Description	Fuction	Color	Status	Action	Description
POWER	Green	ON	Steady	Feed in grid		Green	ON	Steady	4G/WiFi,local WiFi ok
	Green	Blink	3s on/1s off	DC ON/AC OFF		Green	Blink	0.5s on/0.5s off	Local WiFi connecting
	Green	Blink	1s on/3s off	DC OFF/AC ON	COMM	Green	Blink	1s on/1s off	WiFi/ 4G fail,Local WiFi ok
	Green	Blink	0.5s on/0.5s off	Checking		Green	Blink	1s on/3s off	Local WiFi fail,4G/WiFi ok
	Green	Blink	2s on/2s off	Standby mode		Blank	ON	Steady	Comm. Fail
BAT	Green	ON	Steady	BAT is in normal operation		Red	ON	Steady	Arc Fault(with the buzzer on)
	Green	Blink	1s on/3s off	BAT is in low power	FAULI	Red	Blink	1s on/1s off	Warning
	Green	Blink	0.5s on/0.5s off	BAT is in fault mode		Red	ON	Steady	Fault

Note: For more detailed instructions, please refer to the user manual.

7.Service and contact

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1.Please install all the antennas in the accessory bag. 2. Take out the antenna from the inverter accessory bag; 3.Install the antenna to the position marked in the figure below ;



Manual

GR-UM-206-A1-00

