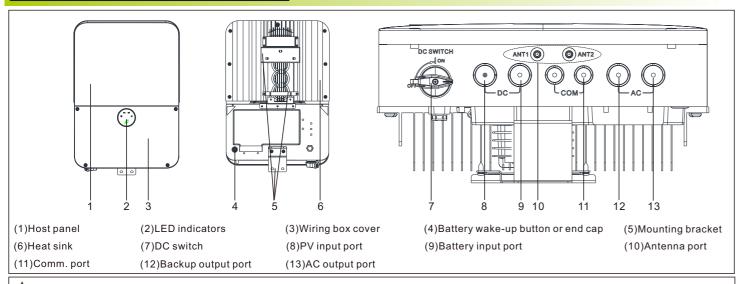


MIN 3000-11400TL-XH-US Quick Guide

1. General information-specification

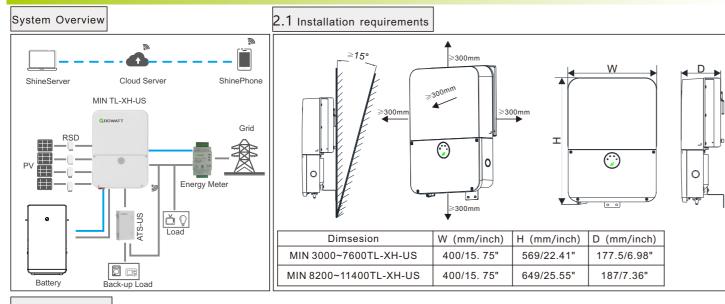




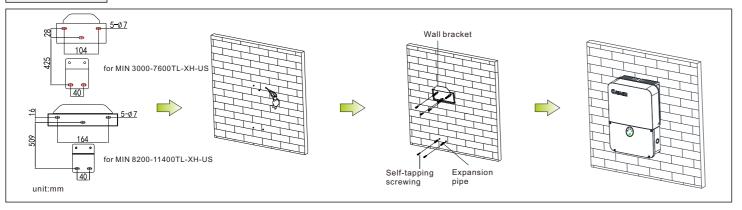
- 1.Before installing the device, check that the package contents are intact and complete against the packing list. If any damage is found or any component is missing, contact your dealer.
- 2. This file will be updated from time to time due to product upgrades or other reasons. Unless otherwise agreed,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

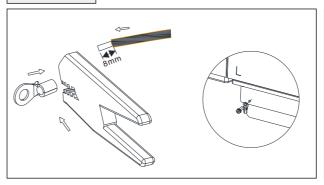
Please prepare the cable before connecting as follows.

| 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 | | | |

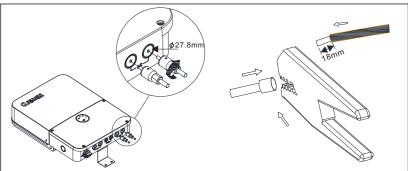
⚠ Note

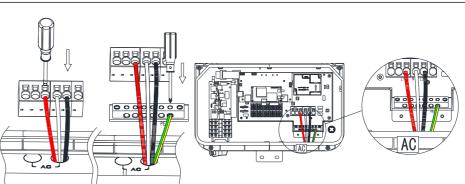
1.Please make sure all switches are OFF before wiring. For personal safety, please do not operate with electricity.

3.1 Grounding



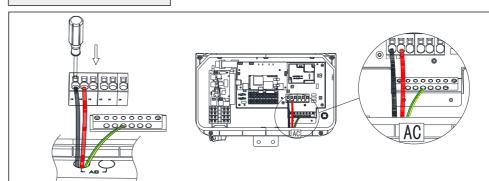
3.2 AC output connection





- 1.Strip 0.7 inches (18mm) of the AC cable
- 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, LOAD_L1,LOAD_L2 of Backup output).
- 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.

3.3 Backup output connection



The Backup output terminal connection steps are consistent with the above steps.

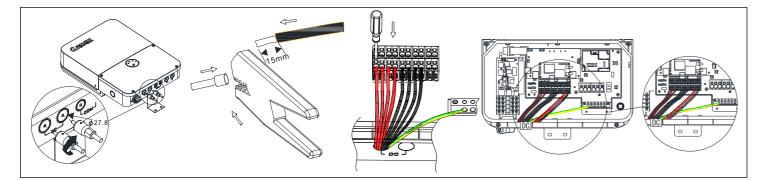
3.4 DC connection

- 3.4.1 PV and Battery input terminal installation

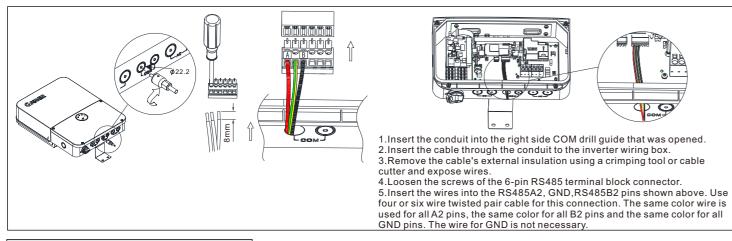
- Strip 0.59 inches (15mm) of the PV and Battery power cable insulation.
 Insert the conduit into the DC-side drill guide that was opened.
 Insert the 0.6*3.5 mm standard flat-blade screwdriver and press the release mechanism and open the clamp.
- 4. Connect the cable to the appropriate terminal blocks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

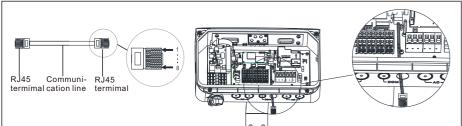
- Note: Forbidden to reverse the positive and negative poles of the Battery input terminal!



3.5 RS485 communication cables installation



3.6 Battery communication cables installation

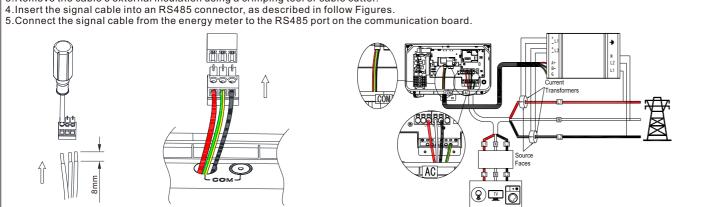


- 1.Insert the conduit into the right side COM drill guide that was opened.
- 2.Insert the CAT 5/6 cable through the conduit to the inverter wiring box.
- 3.Remove the cable's external insulation using a crimping tool or cable cutter and expose eight wires.
- 4. Insert the eight wires into an RJ45 connector, 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.

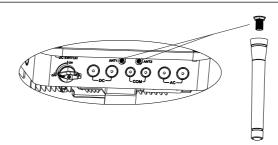
| RJ45 Pin# | Wire Color | | Signal | Fuction | RJ45 | Wire (| Color | Signal | Fuction |
|--------------|--------------|--------------|------------|-----------------|------|-------------|-------------|------------|---------------|
| | T568B | T568A | definition | Fuction | Pin# | T568B | T568A | definition | 1 detion |
| 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 |

3.7 Energy meter communication cables installation

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



3.8 Installing the Antenna



- 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;

4. Checking before power on

| No. | Check Item | Acceptance Criteria | No. | 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 | | Cables are routed properly as required by the customer. | / | Unused terminals and ports | Unused terminals and ports are fitted with waterproofing bolts or watertight caps or drill guide unopended. |
| 3 | | 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 | | The DC switch and all the switches connecting to the MIN TL-XH US are in the OFF position. | 1(1 | 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

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,

| Fuction | Color | Status | Action | Description | Fuction | Color | Status | Action | Description |
|---------|-------|--------|------------------|----------------------------|---------|-------|--------|------------------|-------------------------------|
| | 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 |
| POWER | 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 |
| 1 | Green | ON | Steady | BAT is in normal operation | | Red | ON | ISTEAUV | Arc Fault(with the buzzer on) |
| BAT | Green | Blink | 1s on/3s off | BAT is in low power | FAULT | 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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Manual











GR-UM-206-A-01