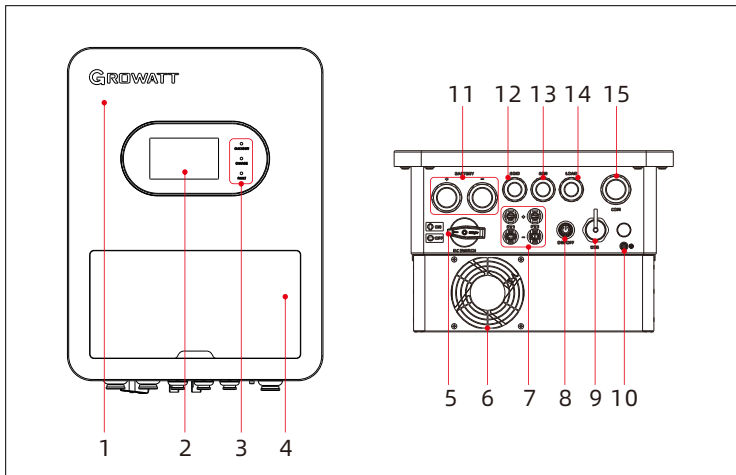


SPM 2500-6000TL-HU2 Quick Guide

1. General Information-specification



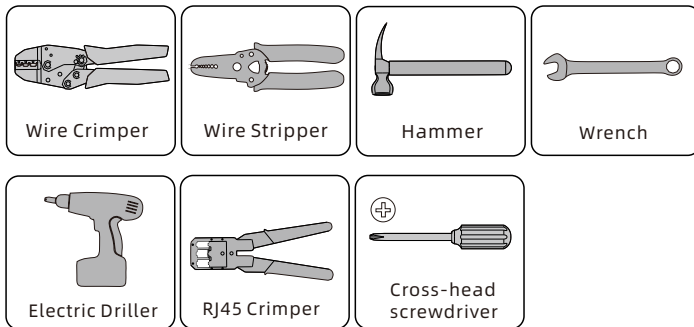
No.	Description	No.	Description
1	Front panel	9	USB port
2	LCD display	10	External grounding terminal
3	LED indicator	11	Battery input port
4	Wiring box cover	12	GRID port
5	PV switch	13	GEN port
6	External fan	14	LOAD port
7	PV input port	15	COM port
8	ON/OFF button		

Note:

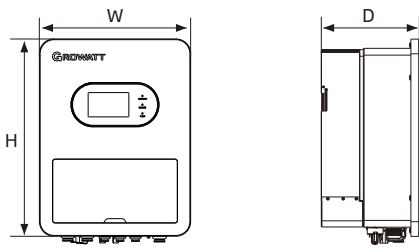
- Before installing the inverter, check that the package contents are intact and complete against the packing list. If any damage is found or any component is missing, contact your dealer.
- This guide will be updated from time to time due to product upgrades or other reasons. Unless otherwise agreed, 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 the user's discretion.
- This document is for quick installation guide only. For details please refer to the User Manual.
- Damage to the inverter caused by failure to follow this document is not covered by the warranty.

2. Installation

2.1 Tool Recommendation

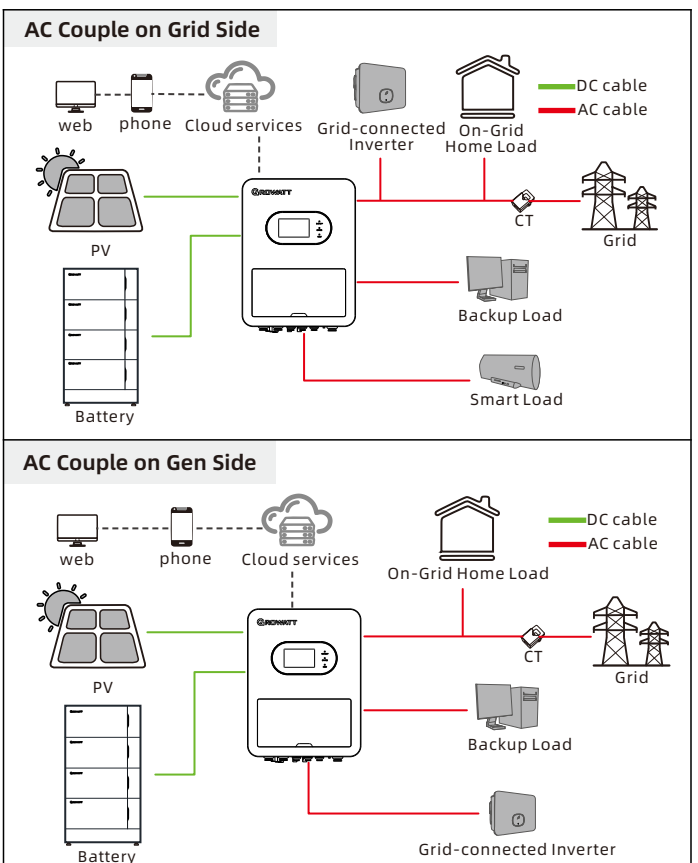


2.3 Inverter Dimensions



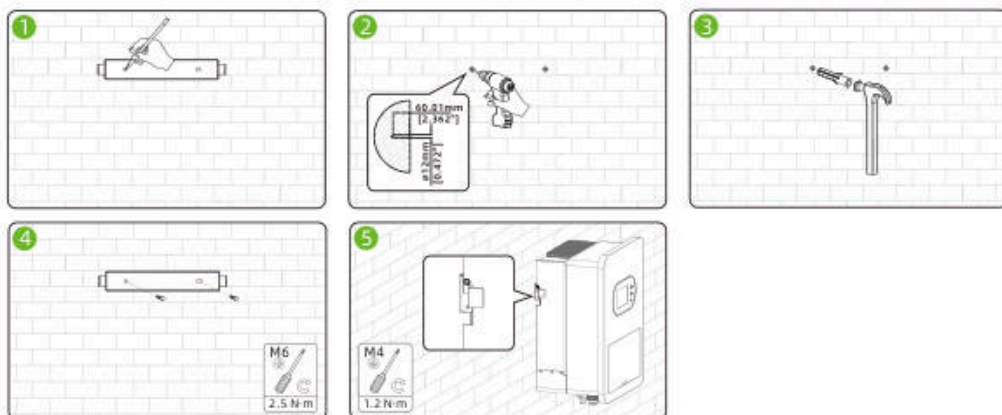
Dimensions	W (mm/inch)	H (mm/inch)	D (mm/inch)
SPM2500-6000TL-HU2	345.0/13.58	450.0/17.71	225.0/8.85

2.2 System Overview



2.4 Installation requirements

1. Level the mounting bracket and mark hole positions on the wall.
2. Drill 2 holes on the marked position.
3. Drive the plastic expansion tubes into the holes.
4. Secure the mounting bracket to the wall firmly with the self-tapping screws.
5. Mount the inverter onto the mounting bracket and tighten the safety screw on the left side.



3. Electrical Connection

Please prepare the cable before connecting as follows.

No.	Cable name	Type	Recommend model
1	Battery input wire	Red and black multi-core copper	2 AWG
2	AC (Grid, GEN, Load) wire	Two different color stranded wire	8 AWG (for Grid and GEN) / 10AWG (for Load)
3	PV input wire	Photovoltaic dedicated cable	12 AWG
4	Grounding wire	Single yellow-green stranded wire	12 AWG
5	Meter communication cable	RS485 A+ / RS485 B- Min. 3-wire shielded twisted pair	0.2-1 mm ² / 24-18 AWG
6	Other communication	CAT5E suggested	/

Note:

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

3.1 Battery module connection

3.1.1 Battery connection

1. Strip 0.59 inches (15 mm) of the battery cable insulation.
2. Insert the battery cable into the open crimping pliers.
3. Insert the tubular terminal and press the crimping pliers.
4. Connect the battery cable to the corresponding terminal through the circular opening according to the symbol (BAT+, BAT-) on the terminal.
5. Use a suitable screwdriver to install the battery cable and tighten the tightening bolts clockwise.

Note: It is strictly forbidden to connect the positive and negative poles of the battery input terminals reversely!

3.1.2 BMS connection

1. Connect one end of the BMS communication cables to the BMS communication port in the inverter wiring box.
2. Lead the other end of the BMS communication cables from hole COM and connect it to the lithium battery communication port.

Note: Only for lithium battery.

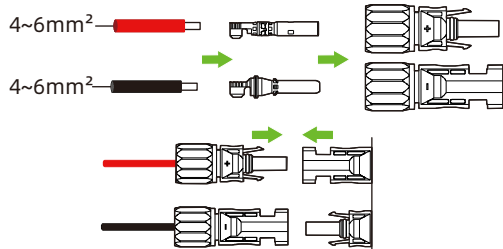
3.2 Grid connection, generator connection and load connection

The AC circuit breaker must be turned off before connecting the grid, load and generator ports.

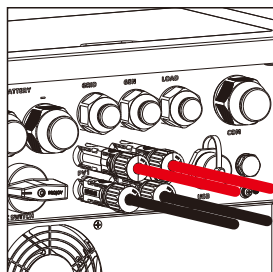
1. Strip 0.7 inches (18 mm) of the AC cable insulation.
2. Insert the AC cable into the open crimping pliers.
3. Insert the tubular terminal and press the crimping tool.
4. According to the labels on the terminal blocks (Grid-L, N)(GEN-L, N) (Load-L, N), insert the AC cable directly into the corresponding terminal block through the circular opening.

3.3 PV Module connection

1 2 3



4

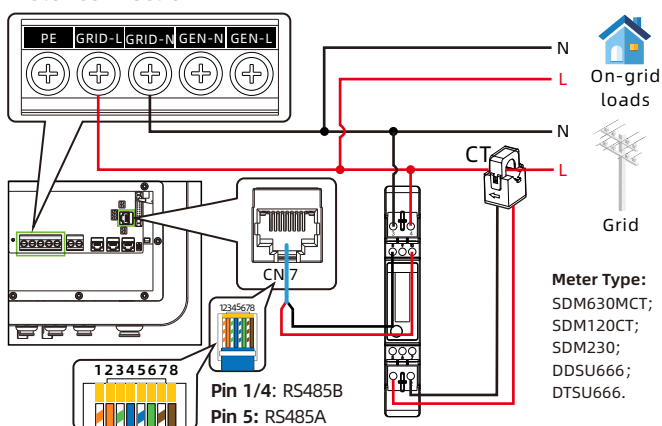


1. Strip 0.39 inches (10 mm) of PV cable insulation.
2. Insert the PV cable into the open crimping pliers.
3. Insert the tubular terminal and press the crimping pliers.
4. According to the identification (PV1+, PV1-) (PV2+, PV2-) on the enclosure, the PV cable is inserted into the corresponding terminal.

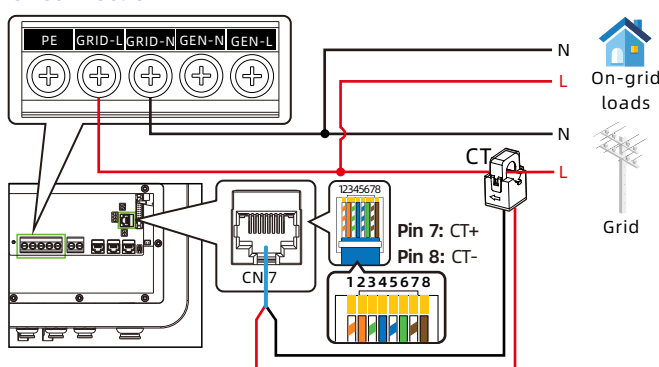
⚠ Note: It is strictly forbidden to connect the positive and negative poles of the PV input terminals reversely.

3.4 Meter or CT Connection

Meter Connection



CT Connection

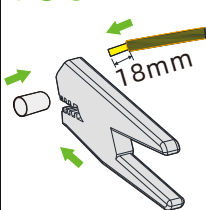


⚠ CT connection note:

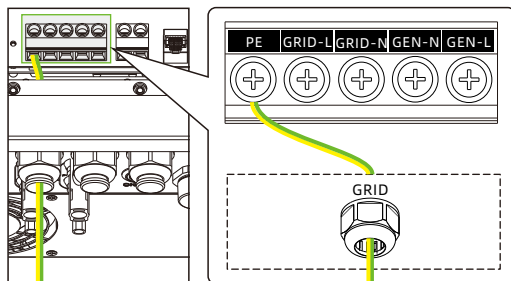
Connect the CT via the network cable interface. Before installing the CT to the live wire, please make sure that the CT is connected to the inverter port correctly and the CT arrow points from CT to load.
The default CT direction is the arrow on the CT pointing from the grid to machine. The CT installation direction can be set on the screen.

3.5 Grounding

1 2 3

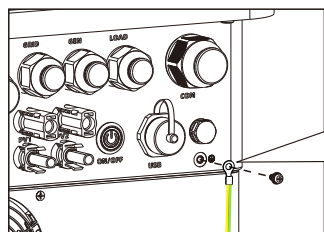


4



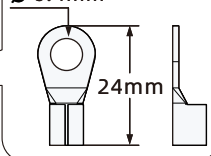
The grounding cable should be connected to the terminal row shown on the left to prevent electric shock.

1. Strip 0.7 inches (18mm) of insulation from the grounding cable.
2. Insert the ground cable into the opening crimping clamp.
3. Insert the tubular terminal and crimp the tool.
4. Insert the grounding cable directly through the circular opening into the corresponding terminal block according to the marking (PE) on the terminal block.



R-type terminal:

Ø 6.4mm

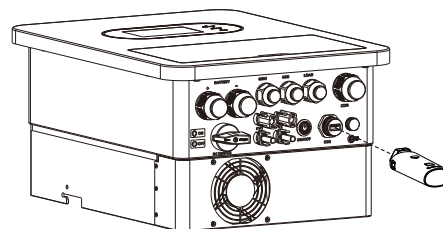


Ground cable shall be connected to ground plate on grid side, this prevents electric shock, if the original protective conductor fails.

Model	Wire Size
SPM 2500-6000TL-HU2	12 AWG

Make sure the inverter enclosure is grounded.

3.6 Datalogger Connection



1. Take out the external datalogger from the inverter accessory bag.
2. Install the external datalogger to the USB port.

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 battery cable, AC cable, PV cable, Ground cable, and other 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 unopened.
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	The cleanliness of the wiring box	Please make sure the wiring box is clean and tidy
5	Switches	Switches connecting to the SPM 2500- 6000TL-HU2 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 powering on, make sure that all voltages and currents are within the inverter specifications. Otherwise, the inverter may be damaged.

The steps of turn on the inverter as follow:

1. Turn on the breaker between battery and the inverter.
2. Turn on the power on/off button.
3. Turn on the PV switch.
4. Turn on the AC Breaker between Grid and the inverter.
5. If need to setup the inverter, please refer to chapter 7 of inverter user manual for details.
6. The shutdown steps are opposite to the above order.

6. Status of the inverter

Inverter comes with three LED indicators. From the front cover top to bottom, it shows the indicator of AC/INV Charge and Fault.

LED Indicator			Messages
AC/INV	GREEN	Light	Powered by AC
		Flashing	Powered by DC
CHARGE	GREEN	Light	Full battery
		Flashing	Charging
FAULT	RED	Light	Error
		Flashing	Warning

7. Monitoring Equipment Configuration Guide

Datalogger
Download ShineWiFi-X2

8. Service and contact

E
W

For local customer support, please visit
GR-UM-557-A-00 (PN:044.SK0024000)

Download
Manual

