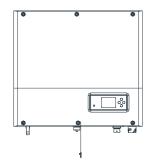
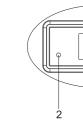
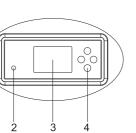


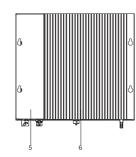
SPA 4000-10000TL3 BH-UP Quick Guide

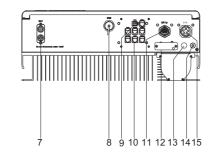
1. Overview











- 1.Front panel
- 6.Heat sink 7.Battery conne
- 11.AC grid connector
- 2.Double color LED
- 7.Battery connector12.Reserved hole
- 8.USB port

 13.Breathable valve

3.LCD screen

4.Push button9.Dry connector

14. Grounding screw

- 5.Magnetic devices10.Communication ports
- 15.EPS connector

⚠ Note:

1. Only three-phase meter supports current direction detection.

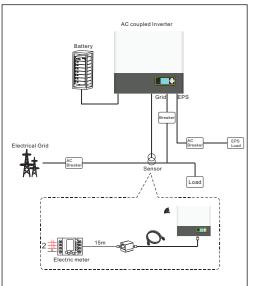
2. Function introduction of communication ports (11) in the follow.

⚠ Note:

- 1. 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.
- 2. This document is for quick guidance installation only. For details, please refer to the User Manual.
- 3. Machine damage caused by failure to follow the content is not covered by the warranty.

2. Installation

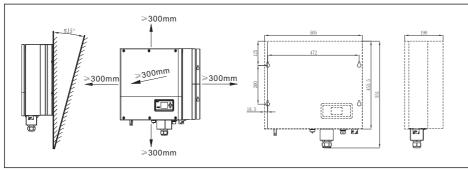
System Overiew



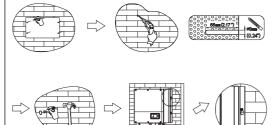
⚠ Note:

The installation of this AC coupled system needs to comprehensively consider the position of the battery and the power collector.

2.1 Installation requirements



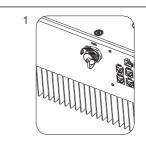
2. 2 Wall mounting

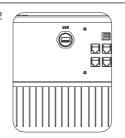


⚠ Note:

Be careful: Avoid water and electricity pipes when punching holes in the wall, otherwise it may be dangerous.

2.3 communication module installation







Follow the installation steps:
1.Remove the USB waterproof cover.

1.Remove the USB waterproof cover.
2.Plug in the communication module.

3. Connecting cables

Please prepare the cable before connecting as follows.

Numbe		Cable name	Туре	Recommend module	
	1	Grounding wire	Single multi-core yellow-green copper wire	Wire diameter>AWG10	
	2	AC output wire	Two or three different color multi-core copper wires	Wire diameter>AWG12	
	4	Battery input wire	Red and black multi-core copper	Wire diameter>AWG10	
	5	Communication wire	CAT5E	1	

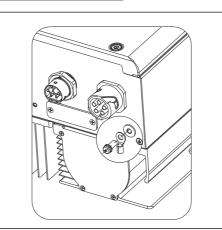
⚠ Notice:

1.Lithium battery has its own power line and communication line, so please use them directly.

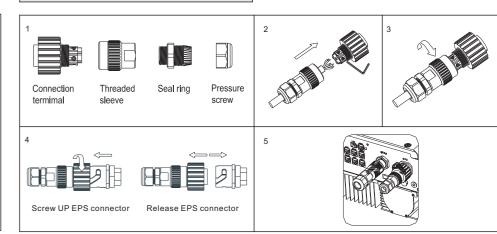
2.AC coupled inverter include the basic communication line. So please use them directly.

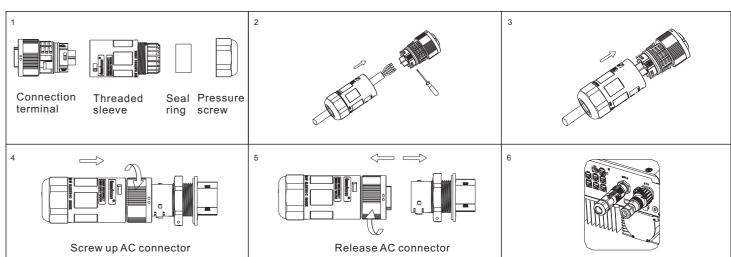
3.Please make sure all the switches off before connection. For your safety, please do not operation when power on.

3. 1 Grounding



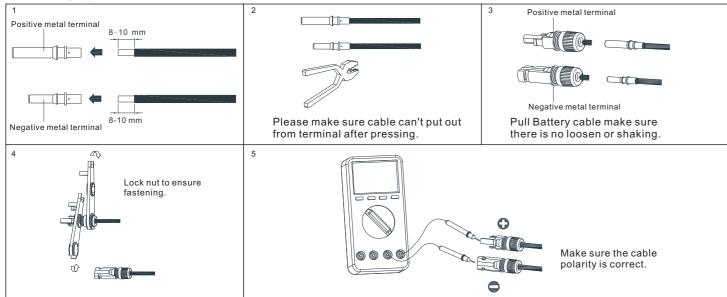
3.2 AC GRID and EPS output connection





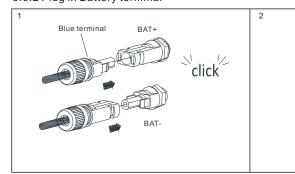
3.3 DC connection

3.3.1 Battery input terminal installation



0

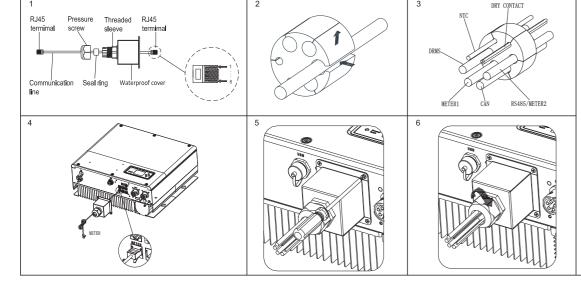
3.3.2 Plug in Battery terminal



1. Turn off the battery cabinet switch and disconnect the CAN communication cable before inserting. Make sure that the battery input voltage/current does not exceed the specifications. 2.When installing the battery terminal, pay attention to the distinction between the positive and negative terminals and the one-to-one correspondence between the terminals and AC coupled inverter.

3. When the terminal is docked, there is a click sound. After the terminal is docked, gently pull the battery cable to observe whether the terminal is shaking or not.

3.3.3 Communication cables installation



When all the communication lines are installed, push the waterproof cover into the bottom, lock the screws fixed to the frame, and finally lock the waterproof cap.

Post-installation check

Number	Acceptance Criteria	Number	Acceptance Criteria		
1	AC coupled inverter is installed correctly and firmly	2	ShineWiFi-X or Shinelink or GPRS is installed correctly and firmly.		
3	Cable wiring is reasonable, meets the requirements, no broken skin, etc.	4	The ground wire confirms the connection and is reliable.		
5	All switches off	6	All wires are correct and securely connected.		
7	Cable tie port trimming, no sharp corners, etc.	8	All exposed terminals are well protected, no vacant ports.		
9	Pay attention to packing all the residual materials.				

5. On off AC coupled inverter

Before power on, please make sure all of the voltage and current are in the range of specification of AC coupled inverter.

Otherwise it will be damage to AC coupled inverter.

Follow are the steps of turn on actions:

- 1. Turn on the switch between Grid and AC coupled inverter.
- 2. Turn on battery and the switch between battery and AC coupled inverter.
- 3. Turn on Battery switch.
- 4.If need to setup AC coupled inverter. Please turn to user manual of AC coupled inverter for detail description.
- 5. The shutdown steps are opposite to the above order.
- 6. The AC coupled has an installation diagnosis function, please run "DiagnoseFun" after the installation is completed.

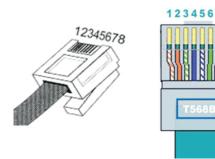
6. Status of AC coupled inverter

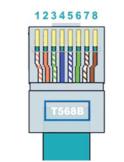
Customer can read more information by push button. Follow are the instruction of button and LED.

Mark	Description	Expla	nation	
ESC OK	Push-button	Operation of display screen and set system		
	Status symbol of SPA	Green light on	SPH run normally	
		Red light on	Fault state	
Normal Fault		Green light	Alarm state	
rauit		blinking		
		Red light	Software	
		blinking	updating	

Definition of RJ45 Port Pin

No.	CAN	METER	COM	DRMS	NTC	485-1/485-2	485-3
1	/	RS485B	DRY+	DRM1/5	GND	RS485B	RS485B
2	/	GND	/	DRM2/6	GND	GND	GND
3	/	/	DRY-	DRM3/7	GND	1	1
4	CANH	/	/	DRM4/8	GND	RS485B	1
5	CANL	RS485A	/	REF	NTC	RS485A	RS485A
6	GND	/	/	COM	NTC	1	1
7	/	/	/	/	NTC	RS485A	1
8	WAKEUP	/	/	/	/	RS485B	1





8. Service and contact

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