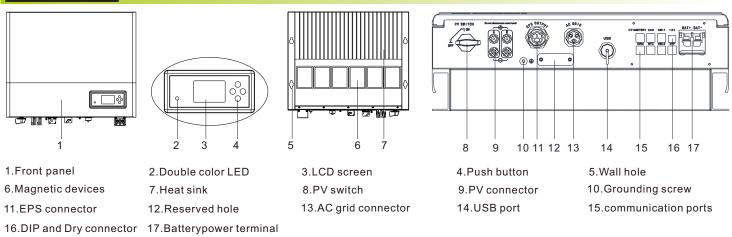
GROWATT

SPH3000-6000TL BL-UP Quick Guide

1. Overview



ANote:

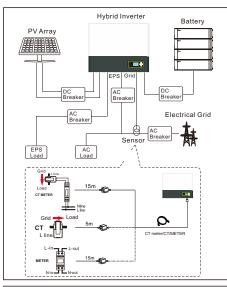
1. This file will be updated from time to time due to product upgrades or other reasons. Unless otherwise agreed, this document is intended as a guide only. All information and suggestions do not constitute an express or implied warranty. The final interpretation of the content is at Growatt.

2.1Installation requirements

- 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

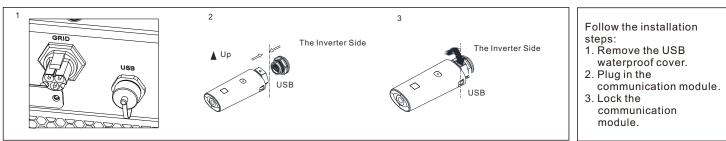
System Overiew

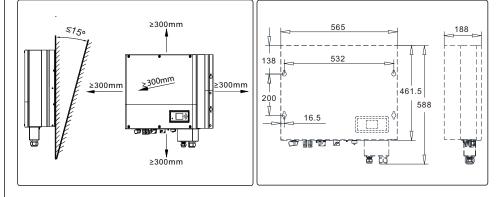


A Note:

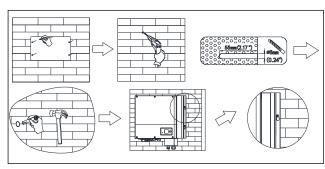
- The installation of this hybrid system needs to comprehensively consider the position of the battery and the power collector.
- 2. You can choose CT or electric meter to connect to the inverter. If there are strict requirements on the limited output power, it is recommended to use an electric meter.

2.3 Monitoring device installation





2.2 Wall mounting



\rm Note:

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

3. Connecting cables

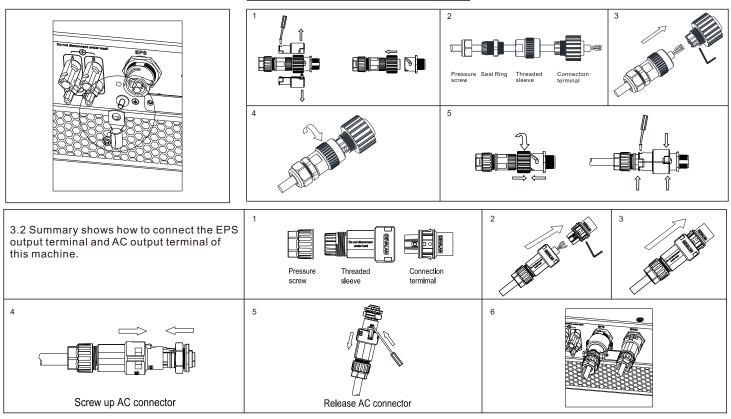
Please prepare the cable before connecting as follows.

No.	Cable name	Туре	Recommend module
1	Grounding cable	A multi-core yellow-green copper cable	13AWG/2.5mm ²
2	AC output cable	Two or three different color multi-core copper cables	9AWG/6mm²
3	EPS output cable	Two or three different color multi-core copper cables	9AWG/6mm²
4	PV input cable	Photovoltaic cable (such as PV1-F)	12AWC/4mm ²
5	Other communication cable	CAT5E	/

\land Note:

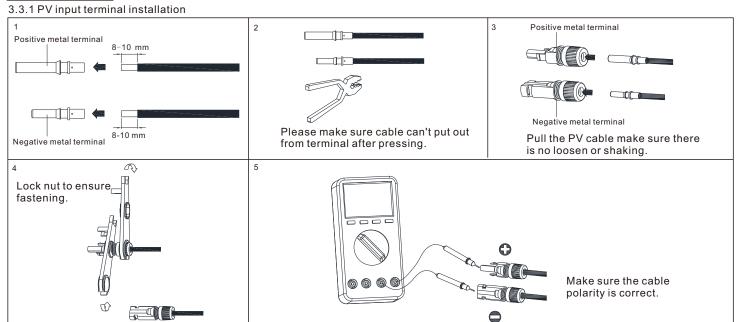
- 1. Lithium battery has its own power line and communication line, so use them.
- Hybrid inverter include the basic communication line. So use them directly.
- 3. Please make sure all the switches off before connection. For your safety, please do not operation when power on.

3.1 Grounding

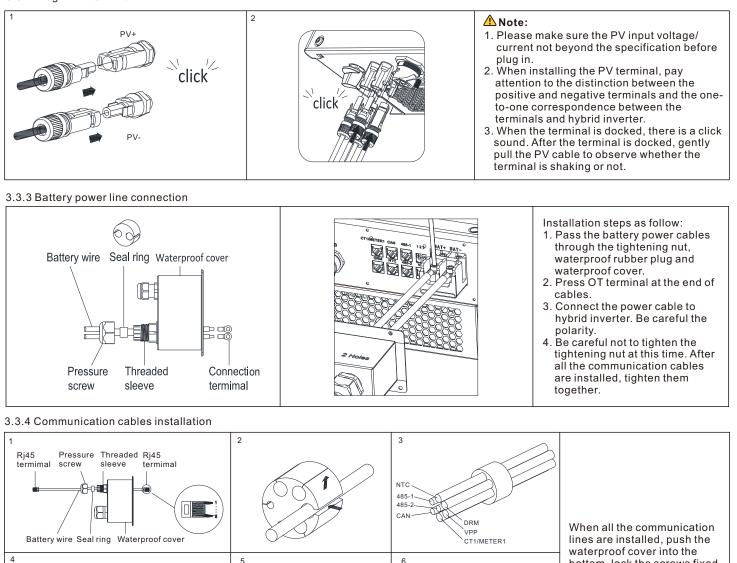


3.2 AC GRID and EPS output connection

3.3 DC connection



3.3.2 Plug in PV terminal



6

bottom, lock the screws fixed to the frame, and finally lock the waterproof cap.

4. Post-installation check

CT1/MERTER1

5

METER

Number	Acceptance Criteria	Number	Acceptance Criteria	
1	Hybrid inverter is installed correctly and firmly	2	ShineWiFi-X or shinelink-X or shine4G-X 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 hybrid inverter

🗥 Note:

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

Follow are the steps of turn on actions:

1. Turn on PV switch.

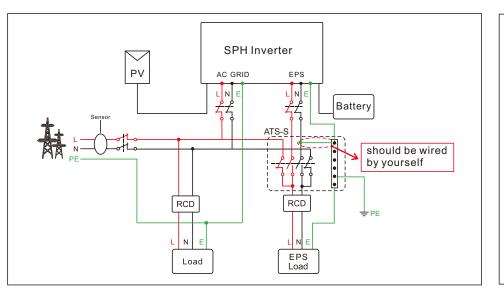
- 2. Turn on the switch between Grid and hybrid inverter..
- 3. Turn on the switch between battery and hybrid inverter and wake up battery.
- 4. If need to setup hybrid inverter. Please turn to user manual of hybrid inverter for detail description.
- 5. The shutdown steps are opposite to the above order.

6. Status of hybrid inverter

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

Mark	Description	Explanation Operation of display screen and set system	
(ESC) (OK)	Push-button		
	Status symbol of SPH	Green light on	SPH run normally
		Red light on	Fault state
• Normal Fault		Green light blinking	Alarm state
		Red light blinking	1.Bypass state 2.Software updating

7. Example diagram of N-wire grounding method



\land Note:

- This diagram illustrates the wiring for satisfying the island mode grounding requirements. In the off-grid mode, the the EPS.N is the point of zero charge.
- 2. You need to install the ATS-S, which can be purchased from Growatt.
- 3. The EPS.N can be connected to earth via connecting to the copper grounding bar in the ATS-S. Please wire this by yourself. Set Register 1053 to 1 and Register 1060 to 3.

8. Service and contact

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