

Inverter Operation Guide

Growatt SPF 3000-5000ES



Contents

01

Scenario

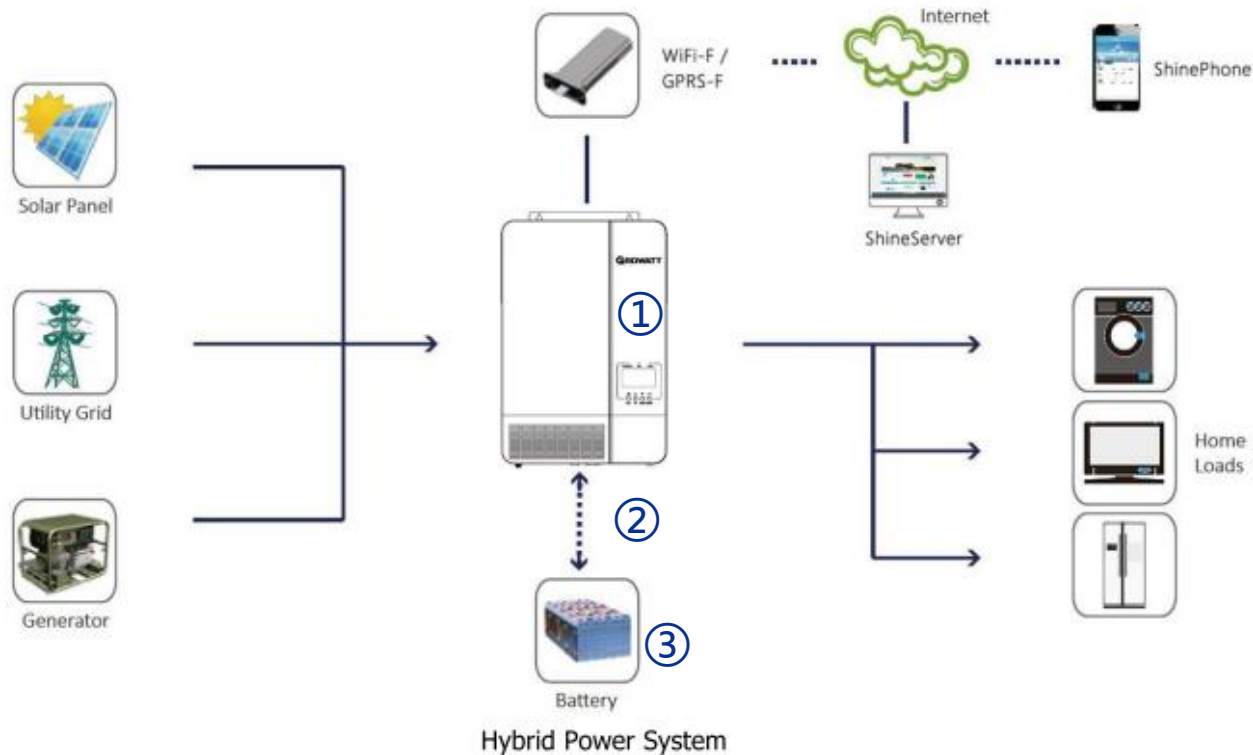
02

Connection

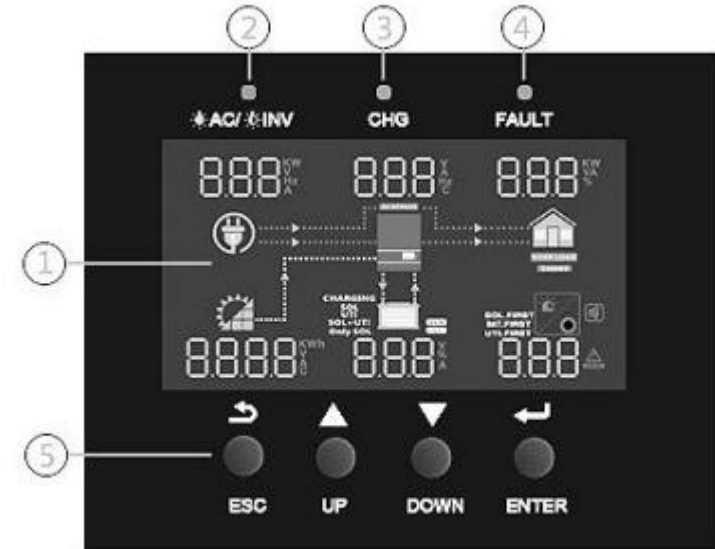
03

Configuration

Simple home storage scenario



PCS Control Panel

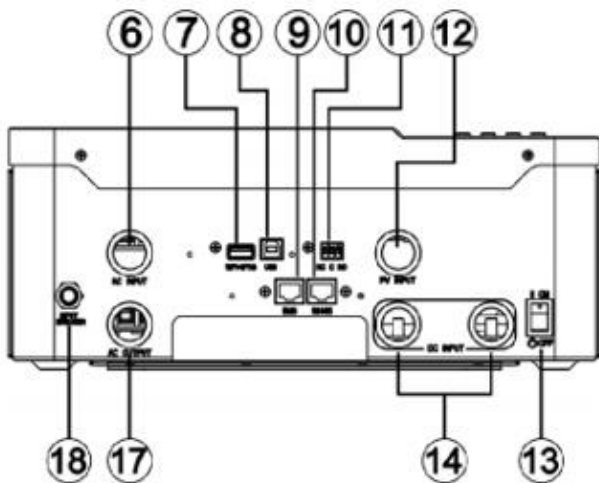


Key elements

- ① **Inverter** : Growatt SPF 3000-5000ES
- ② **Interconnection cable**: Standard network cable
- ③ **Battery**: The Li-ion Battery Pack composed of 16 strings of cells

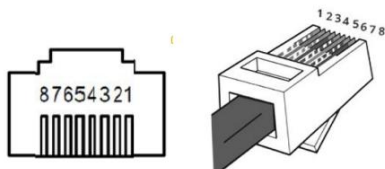
No.	illustrate
1	LCD display
2	Status indicator
3	Charging indicator
4	Fault indicator
5	Function buttons

PCS Interfaces



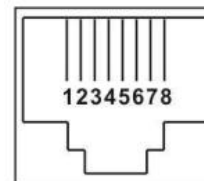
- 6. AC input
- 7. WiFi/GPRS communication port
- 8. USB communication port
- 9. BMS communication port (support CAN/RS485 protocol)
- 10. RS485 communication port (for expansion)
- 11. Dry contact
- 12. PV input
- 13. Power on/off switch
- 14. Battery input
- 15. Parallel communication ports
- 16. Current sharing ports
- 17. AC output
- 18. Circuit breaker

Connection Between PCS and BMS



Inverter pin	Defined declaration
1	RS485-B
2	RS485-A
4	CAN-H
5	CAN-L

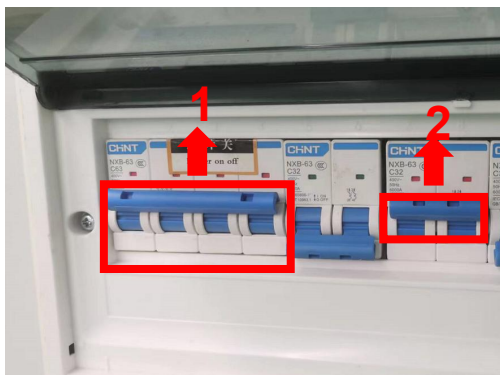
PCS Side



PIN1	RS485-B
PIN2	RS485-A
PIN3	GND
PIN4	CAN-H
PIN5	CAN-L
PIN6	GND
PIN7	RS485-A
PIN8	RS485-B

BMS Side

Matching Setting of Inverter and BMS-1

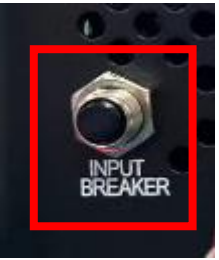


1. Check system connection conforms
2. Turn on the AC power switch

①



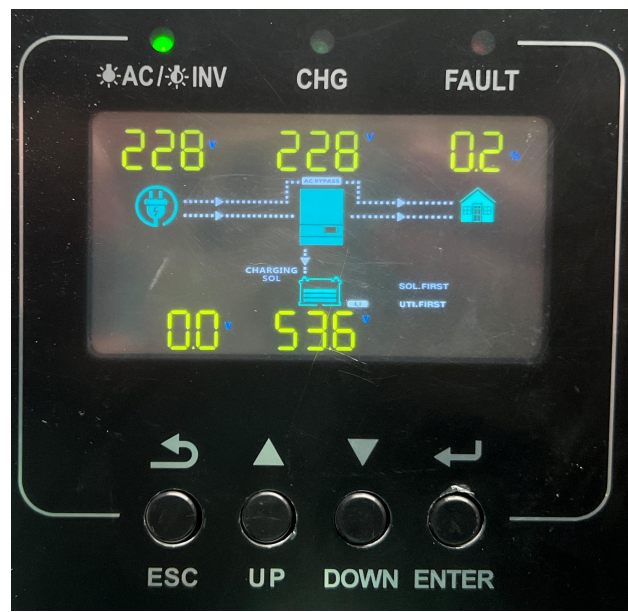
1. Turn on the inverter switch
2. Turn on the AC input circuit breaker



➔ 2

3. After checking that the AC mains is working normally , enter the system settings. (frequency: 50Hz/60Hz, voltage range: 90V ~ 280V (for APL), 170~280V (for UPS)),

②



③

Hold "ENTER" key --> "System settings"

Matching Setting of Inverter and BMS-2



④

"Option 005 " --> Set "LI "-->Press the "ENTER" key



⑤

"Option 036 " --> Set "L01 "-->Press the "ENTER" key