

Inverter Operation Guide

Growatt-SPF 4-12KT HVM



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Scenario

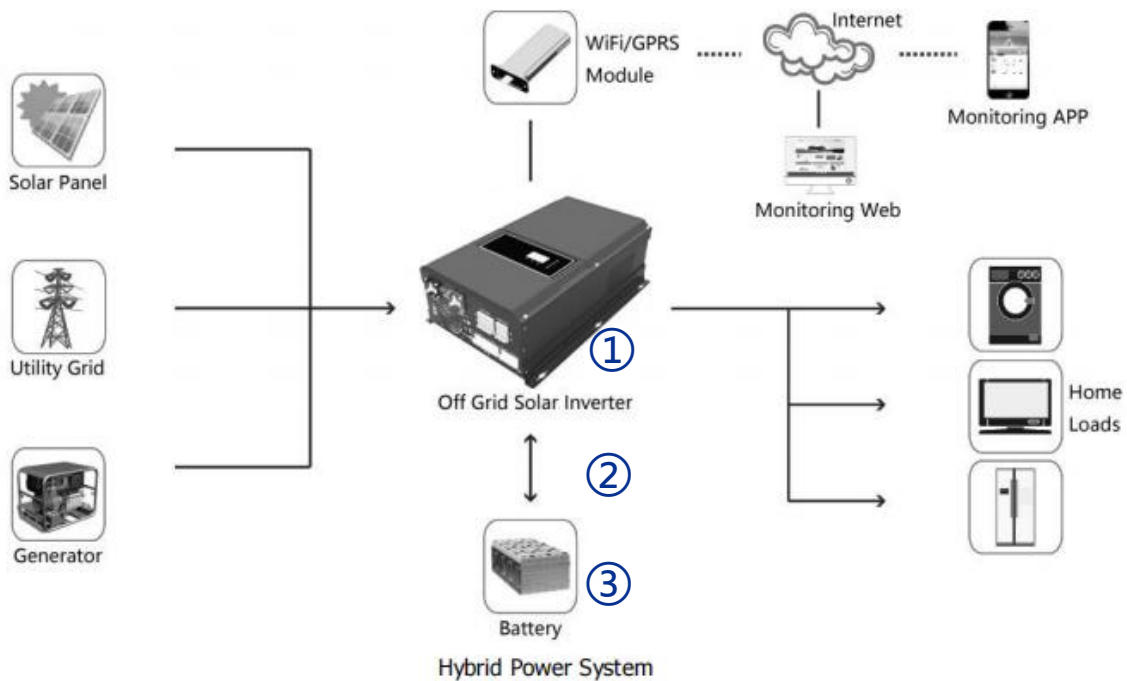
02

Connection

03

Configuration

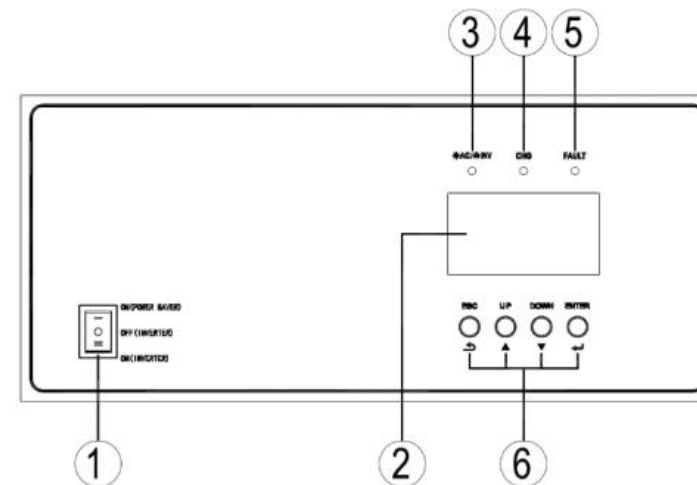
Simple home storage scenario



Key elements

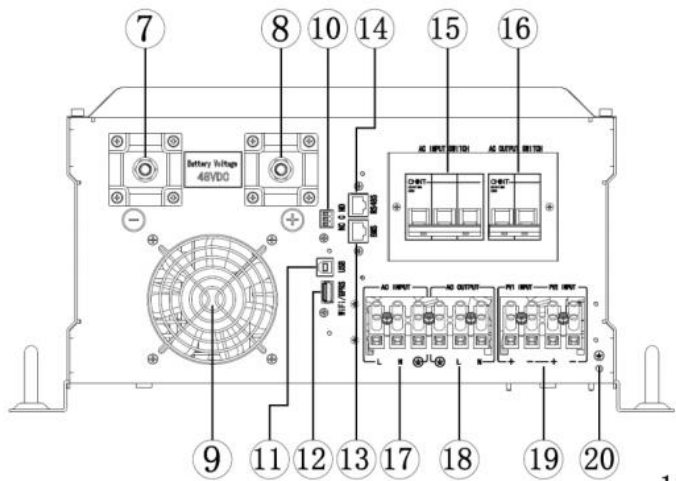
- ① **Inverter** : Growatt-SPF 4-12KT HVM
- ② **Interconnection cable**: Standard network cable
- ③ **Battery**: The Li-ion Battery Pack composed of 16 strings of cells

PCS Control Panel



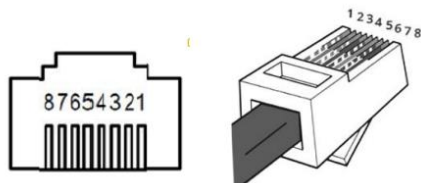
No.	illustrate
1	ON/OFF Power Switch
2	LCD Display
3	Status Indicator
4	Charging Indicator
5	Fault buttons
6	Function Buttons

PCS Interfaces



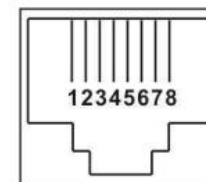
7.Negative Battery Terminal	14.RS485/Remote LCD Port (Optional)
8.Positive Battery Terminal	15.AC Input Breaker
9.DC Fan	16.AC Output Breaker
10.Dry Contact For AGS	17.AC Input Terminal
11.USB Port	18.AC Output Terminal
12.Wi-Fi/GPRS Device Port	19.PV Input Terminal
13.BMS Port	20.Grounding Terminal

Connection Between PCS and BMS



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

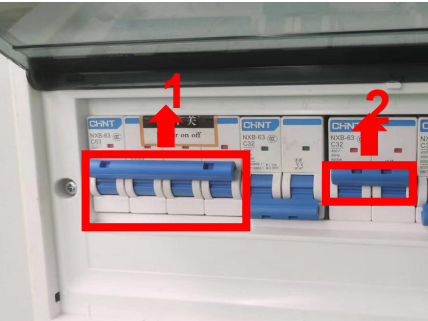
PCS Side



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

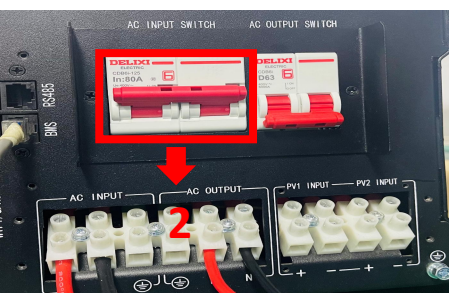


①

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



1. Turn on the inverter switch
2. Turn on the AC input circuit breaker
3. After checking that the AC mains is working normally, enter the system settings.



②

(Frequency: 50Hz/60Hz, Voltage range: 154V~272V (for appliances), 184~272V (for UPS))

Matching Setting of Inverter and BMS-2



③

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



④

"Option 05 " --> Set "LI "-->Press the "ENTER" key



⑤

Jump to "Option 51"-->Select **communication protocol**
(L01-L50 for 485 protocol, L51-L99 for CAN protocol,
only one protocol communication can be selected)



⑥

- 1.Press the "ENTER" key to confirm until "**Option 51**" flashes
- 2.Press "ESC"key--> Home screen