

Inverter Operation Guide

Bentterson-Off-Grid Invertes SAL 5KW_EU



Contents

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Scenario

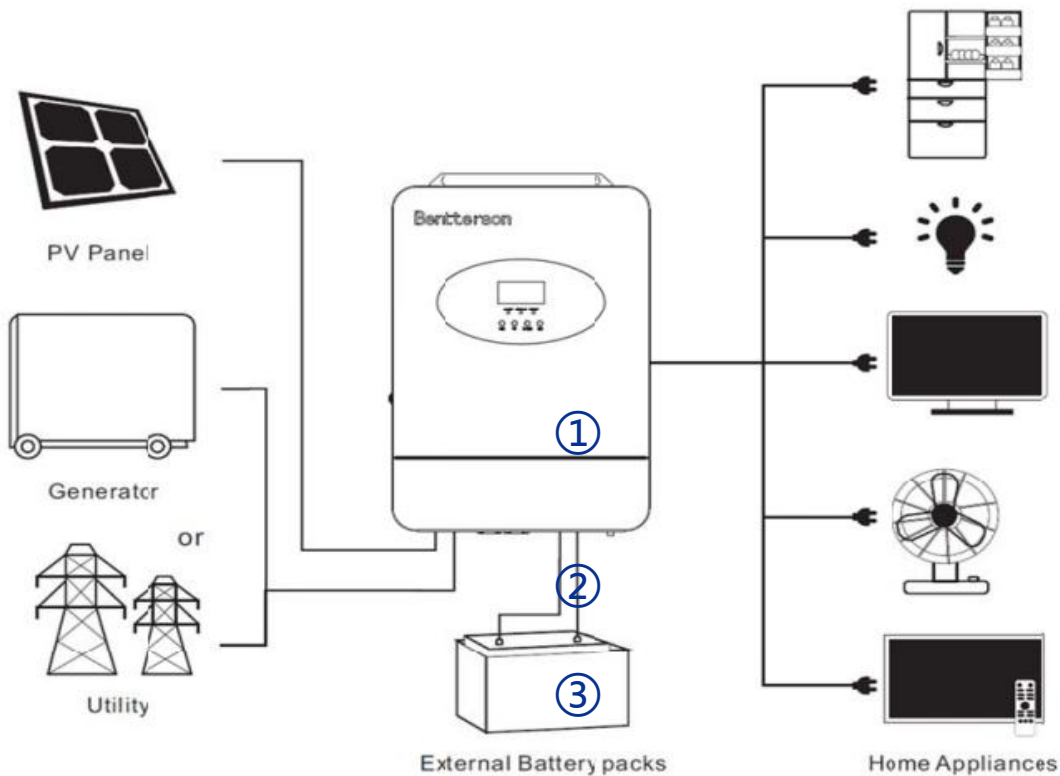
02

Connection

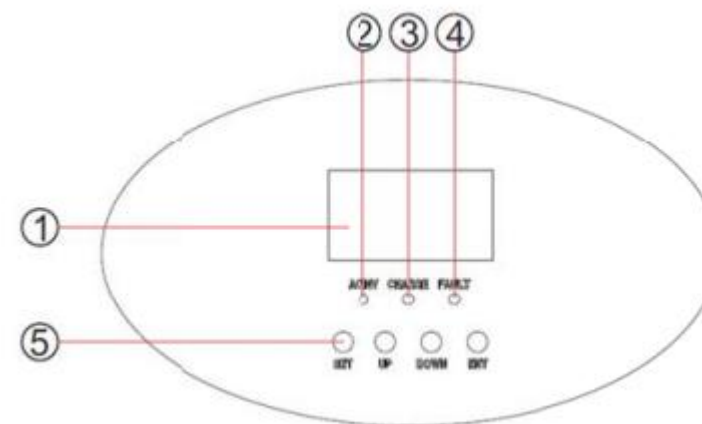
03

Configuration

Simple home storage scenario



PCS Control Panel



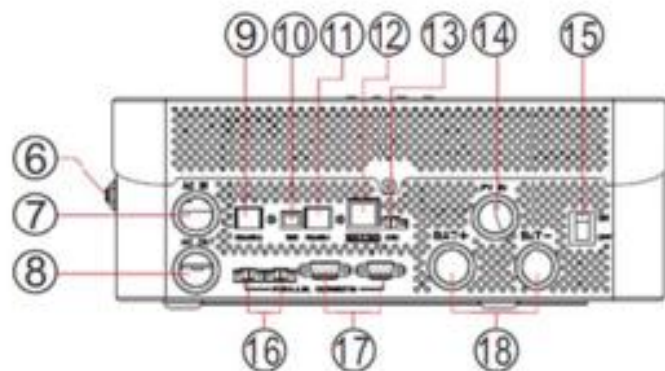
1. LCD display
3. Charge indicator
5. Function key

2. Status indicator
4. Fault indicator

Key elements

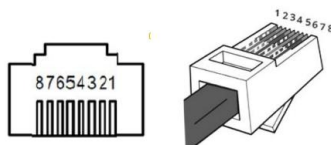
- ① **Inverter** : Bentterson-Off-Grid Inverter SAL 5KW_EU
- ② **Interconnection cable**: Customized communication cable
- ③ **Battery**: The Li-ion Battery Pack composed of 16 strings of cells

PCS Interfaces



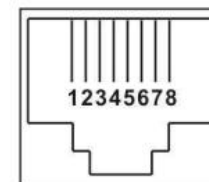
- 6. Circuit breaker
- 7. AC Input Interface
- 8. AC Output Interface
- 9. RS485-2 communication interface
- 10. USB communication interface
- 11. RS485-1 communication interface
- 12. Dry contact
- 13. CAN communication interface
- 14. PV Input Interface
- 15. ON/OFF on-off
- 16. Parallel machine streamline interface
- 17. Parallel communication line interface
- 18. Battery port

Connection Between PCS and BMS



Inverter pin	Defined declaration
1	+5V
2	GND
7	RS485-A
8	RS485-B

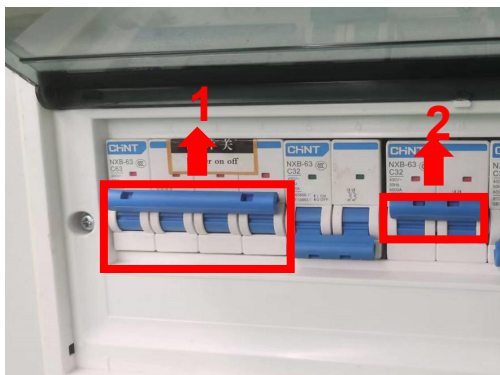
PCS Side



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

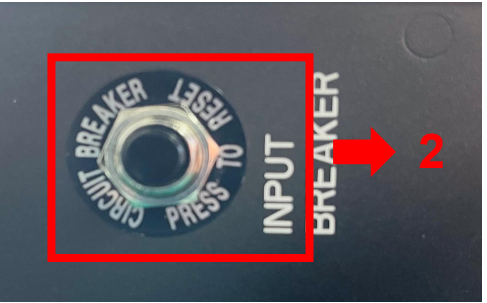


1. Check system connection conforms
2. Turn on the AC power switch

①



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

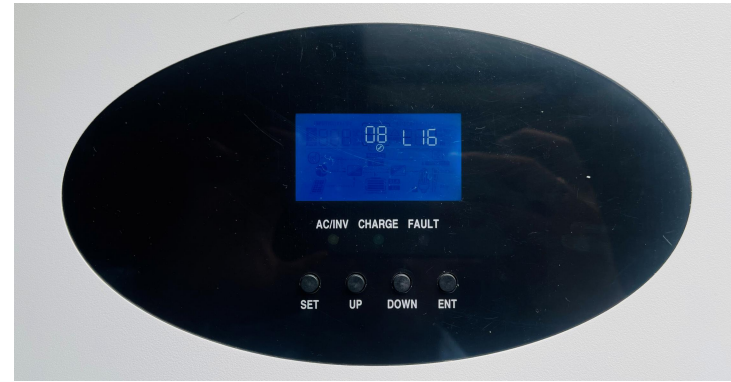


②



Press the "SET" key --> System settings

③



"Option 08 " --> Set "L16 " --> Press the "ENT" key

④

Matching Setting of Inverter and BMS-2



⑤

"Option 32 " --> Set "bns"-->
Press the "ENT" key



⑥

"Option 33 " --> Set "PYL"-->
Press the "ENT" key-->Press the "SET"
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