



Parallel Setting Instruction

Ginlong Technologies Co., Ltd.

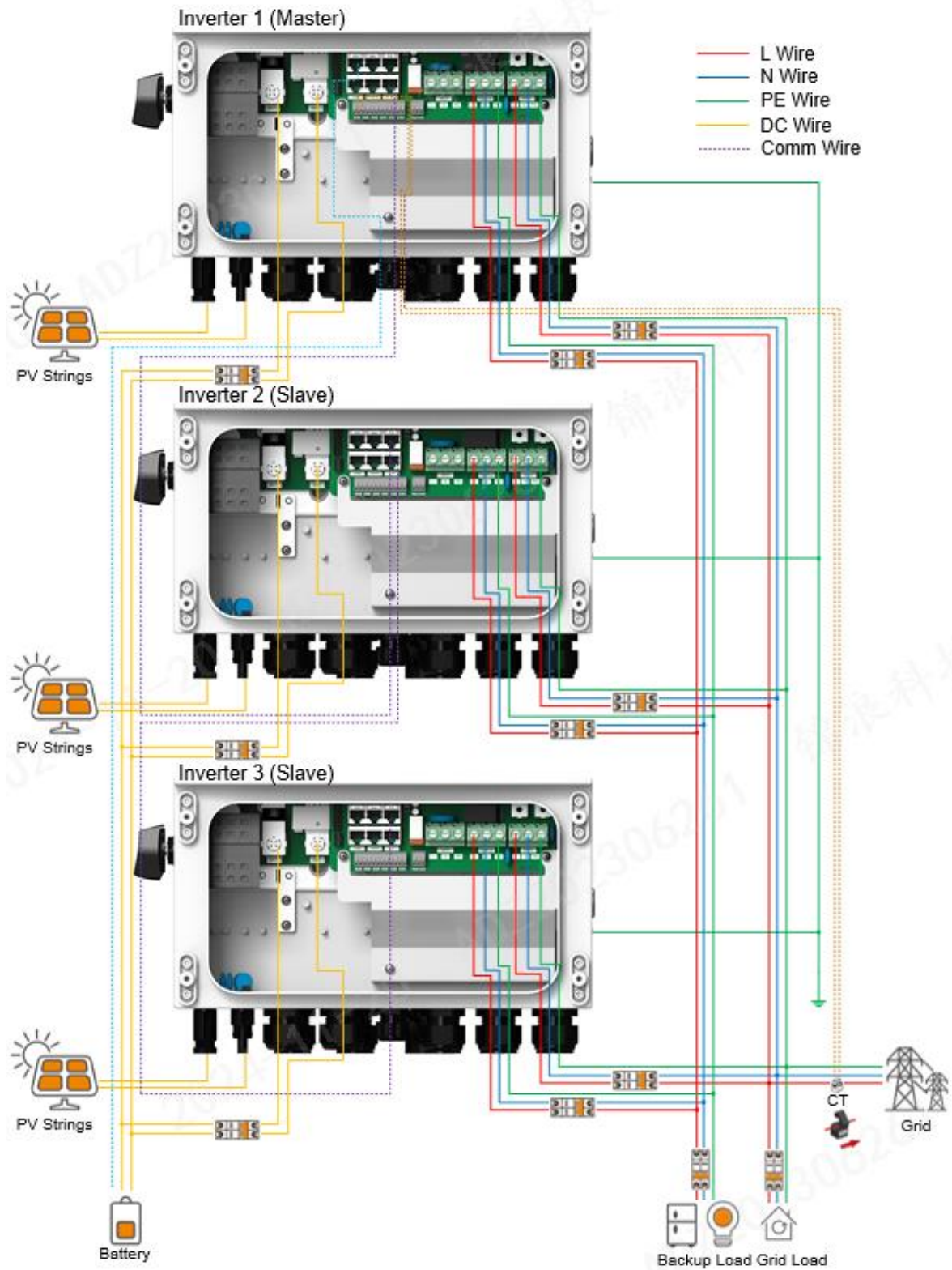
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Revision History

- Version 1.0- November 20, 2024 : Initial release

1. Parallel system wiring diagram.

1. When connecting inverters in parallel mode, it is compulsory to match their same models; for example, pair an 8KW inverter with another 8KW inverter. Do not install inverters in parallel mode from different model.
2. Before parallel connection, verify that all inverters are operating using the same firmware version.
3. Up to 6 pcs hybrid inverters can be installed together in parallel mode.
4. All communication cables only need to be connected to the master. But for updating the firmware, each inverter should connect to its own datalogger.
5. For multiple inverters in parallel, all inverters should be connected to the same ground point to eliminate the possibility of a voltage potential existed between inverter grounds.
6. PV input: Each inverter should have its own PV strings connected to it, as per the DC input PV specifications of the inverter.
7. Battery input: The batteries should be connected in parallel to form a battery pack. And the battery power line should be divided into multiple sections and connected to the Battery ports of each inverter, but the BMS communication cable only needs to be connected to the master inverter.



2. Individual Inverter state

Before doing the parallel setup, it is essential to verify the individual normal functioning of each inverter. By this way you can avoid parallel inverter anomalies caused by the original parameter settings of a single inverter. Set each inverter one by one and make sure they work fine and there are no alarms and then connect the parallel cable as explained above.

3. Parallel communication connection

There are two RJ45 ports in the inverter (Parallel A (the left one) & Parallel B (the right one)) designed for communication between multiple Solis S6 hybrids. We adopt CAN protocol as the communication protocol, and the ports are not able to be used for any other purpose besides daisy-chaining Solis S6 hybrids together.

Connecting the network cable to the parallel port of the master and slave (master machine's parallel-A port should connect to slave machine's parallel-B), then connect the slave's parallel-A port to next slave's Parallel-B port, the later machine connecting like this in turns.



Figure 1 : RJ45 Plug

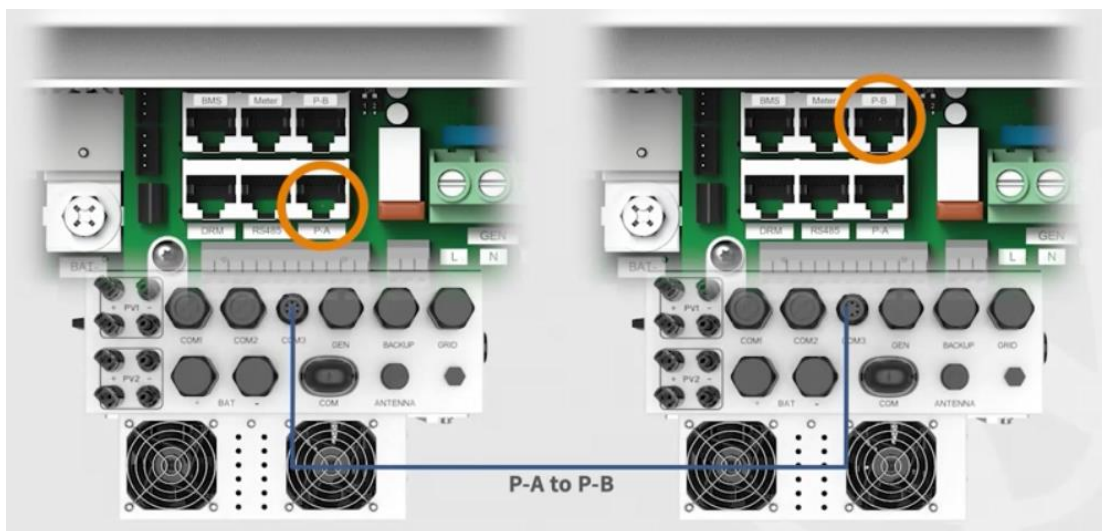


Figure 2 Parallel port

4. Dip Switch Settings

Setting the dip switches 1&2 of the Master and the last slave inverter to: ON,
And other slave inverters in the middle to: OFF.

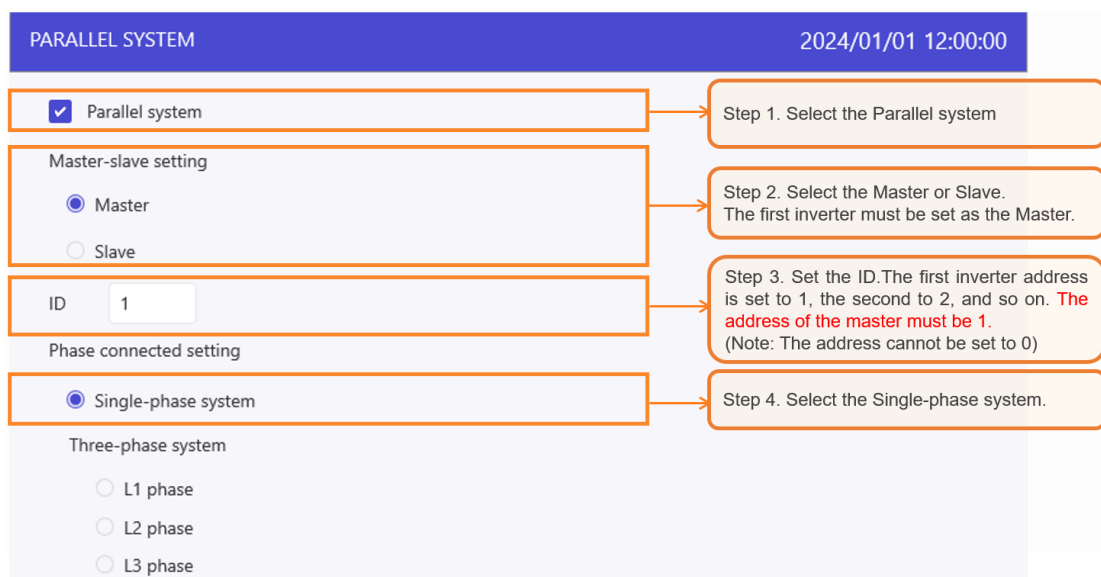
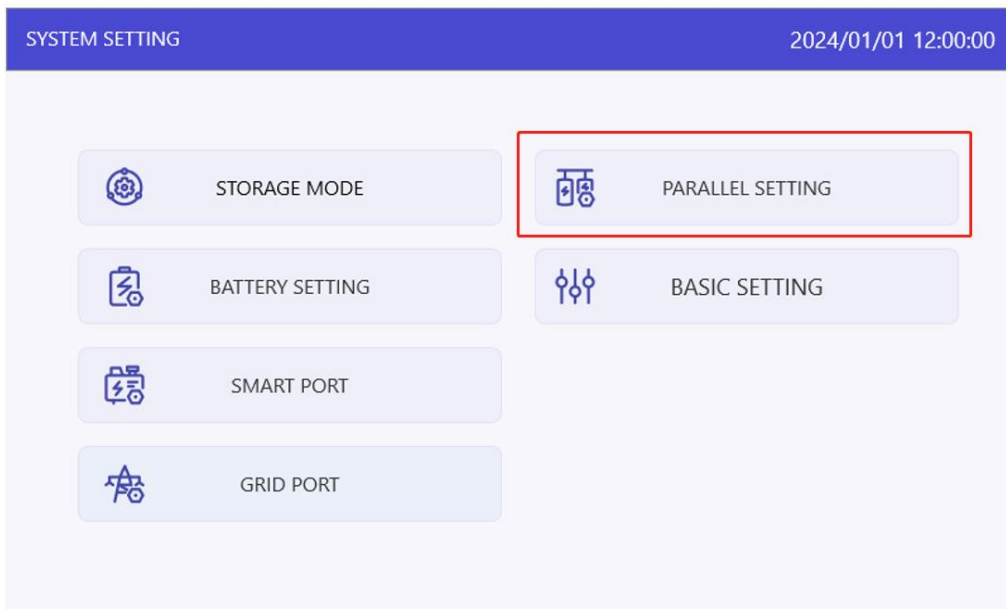
For example:

1. If you have 2 inverters connected in parallel mode, both dip switches should be turned on at “ON” position.
2. If there are 3 inverters in parallel mode, the **first** and **last** inverter’s dip switches should be on “ON” position, the **middle** one should keep the dip switches on “OFF” position.

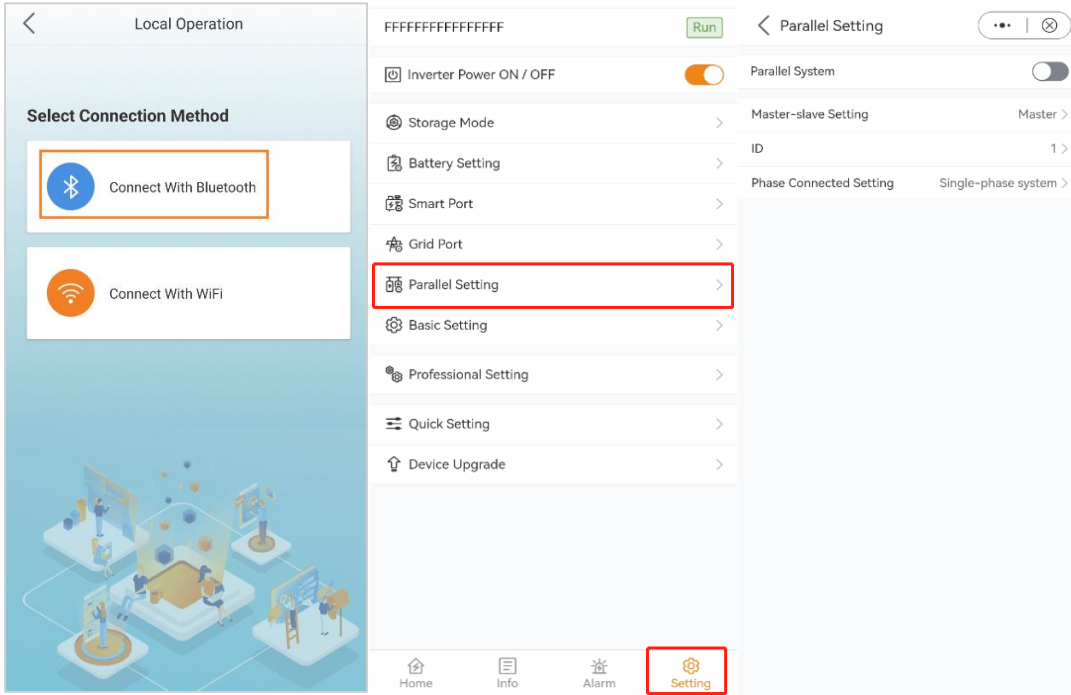


5. Parallel parameter setting

LCD screen step: Home - System setting - Parallel setting



Solis cloud APP step: Connect With Bluetooth - Setting - Parallel Setting



Solis cloud platform step: Inverter Control - Parallel Setting

The screenshot shows the Solis cloud platform interface. The 'Inverter Control' tab is highlighted with a red box. The interface displays real-time information, basic information, and a configuration table for parallel settings.

Real-time Information

- State: ● Online
- Current Power: 0.417kW
- Today Full Load Hours: 0.05h
- Alarm Information: No alarm
- Inverter Internal Operating Ambient Temperature: 42.1 °C (up to 105 °C)
- Today Yield: 0.4kWh
- Monthly Yield: 17kWh
- Annual Yield: 17kWh
- Total Yield: 17kWh

Basic Information

- Name: Inverter
- Rated Power: 8kW
- Inverter Version: 190008-030004
- Warranty Expiration Time: --
- Model: 3126
- Machine Type: S6-EH1P8K-L-PLUS
- RisoLim: --k2
- DSPM Version: 0804
- SN: [Redacted]
- Plant: [Redacted]
- Datalogger: [Redacted]
- Warranty State: --
- National Standard: custom50
- ILeakLim: --mA
- AFCI Version: 0
- DSPS Version: 0000

Parallel Setting Configuration Table

Se...	Parameter Name	Current Val...	Set Value	Range	Unit	Notes	Remark
0	Parallel System	Single	Select	Save	--	To set if the inverter L...	--
1	Master-Slave Setting	Master	Select	Save	--	To set if the inverter L...	--
2	ID	1	Input	Save	1 - 6	--	--
3	Phase Connected Set...	Single Phase	Select	Save	--	To set which phase L...	--