

Inverter Operation Guide

Deye-SUN-10K-SG04LP3-EU



Contents

01

Scenario

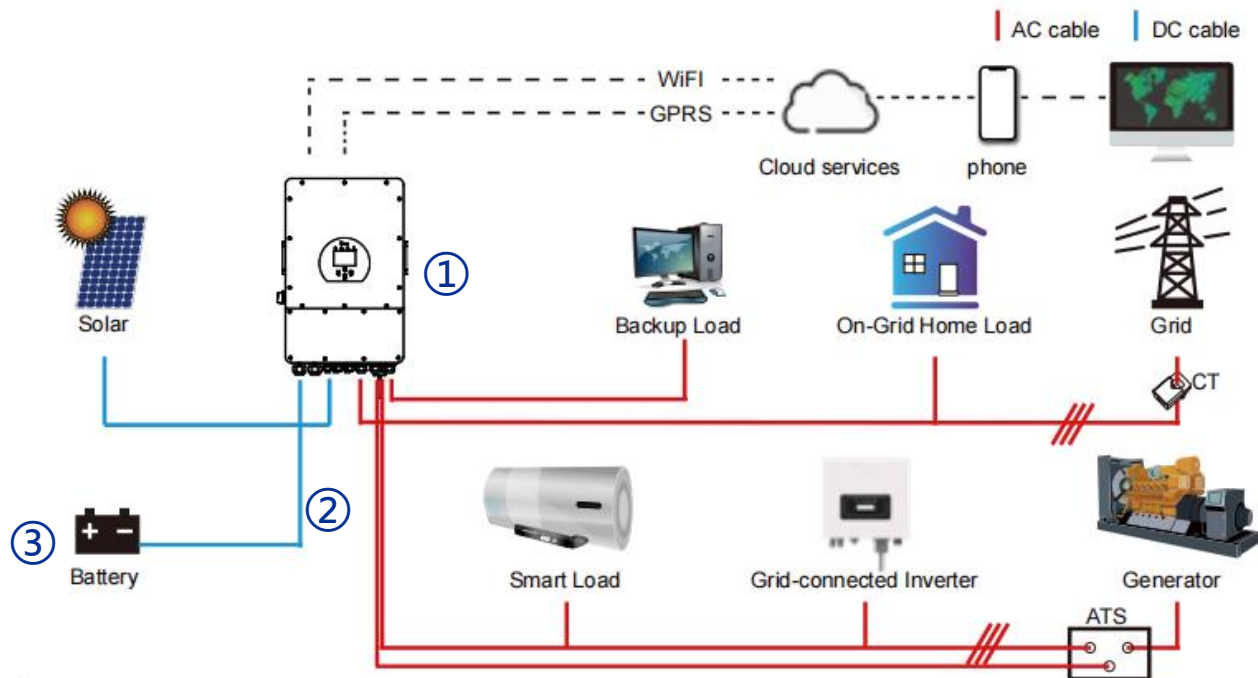
02

Connection

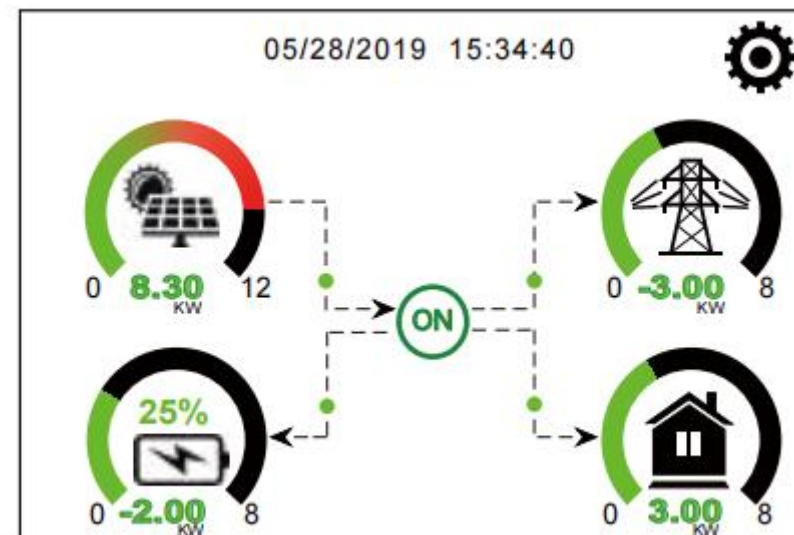
03

Configuration

Simple home storage scenario



PCS Control Panel

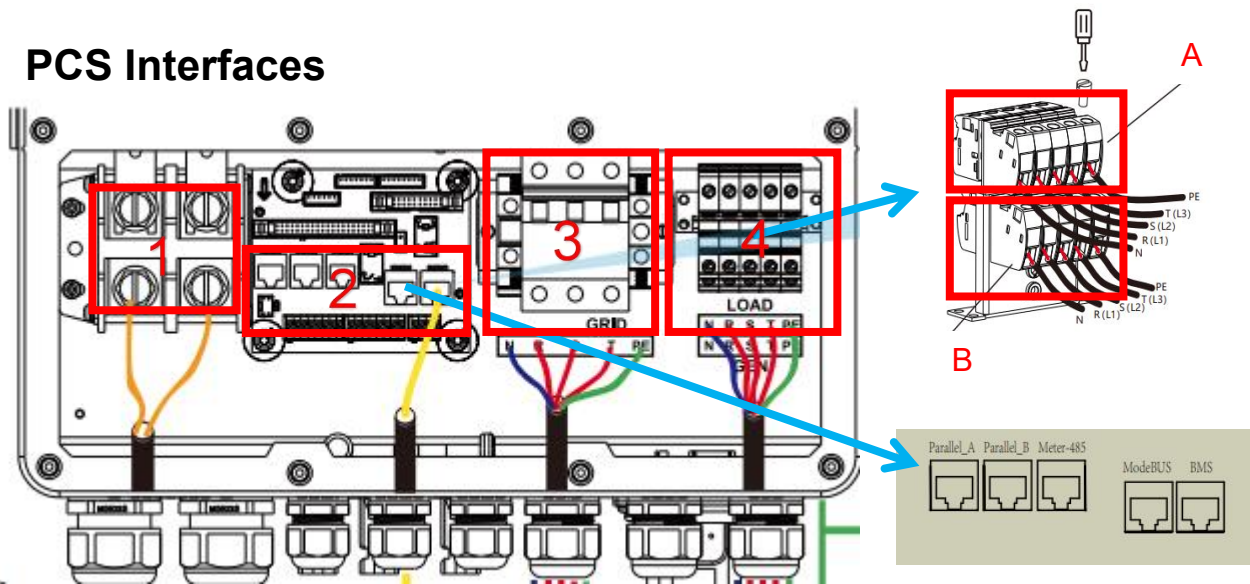


The LCD is touchscreen, below screen shows the overall information of the inverter.

Key elements

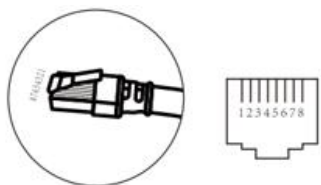
- ① **Inverter** : Deye-SUN-10K-SG04LP3-EU
- ② **Interconnection cable** : Standard network cable
- ③ **Battery** : The Li-ion Battery Pack composed of 16 strings of cells

PCS Interfaces



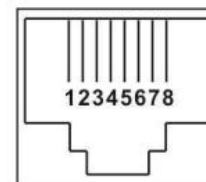
Serial number	Feature definition
1	Battery access terminals
2	Communication and functional interface
3	PV/AC Input terminals
4	A: Input terminals B: GEN PORT

Connection Between PCS and BMS



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

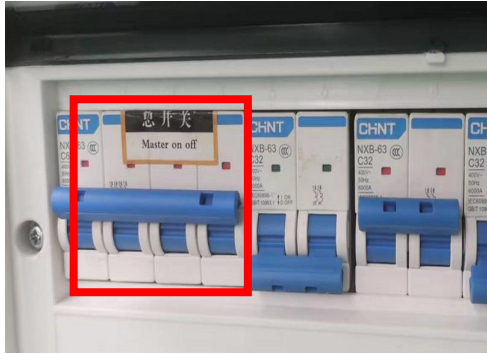
PCS Side



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

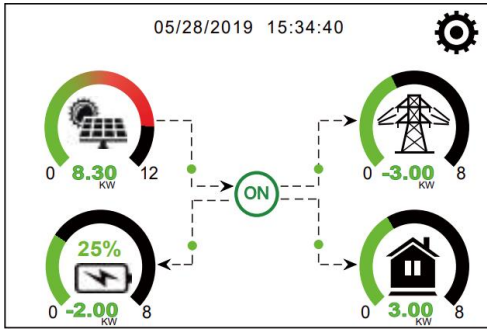
BMS Side

Matching Setting of Inverter and BMS-1



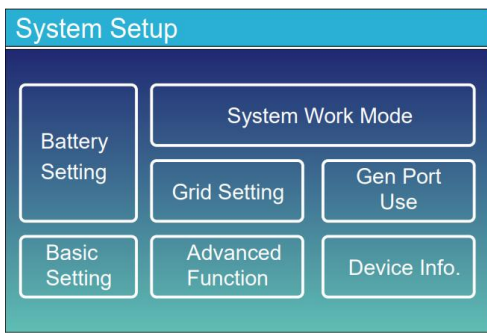
①

- Check system connection conforms
- **Turn on** the AC power switch



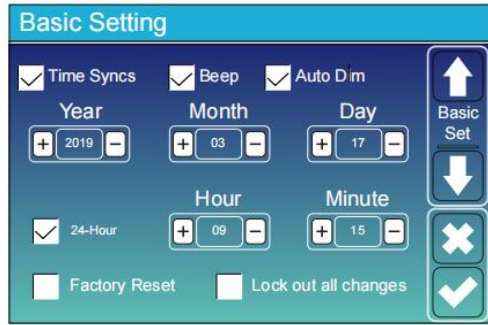
②

Tap the touchscreen settings button to enter the settings menu



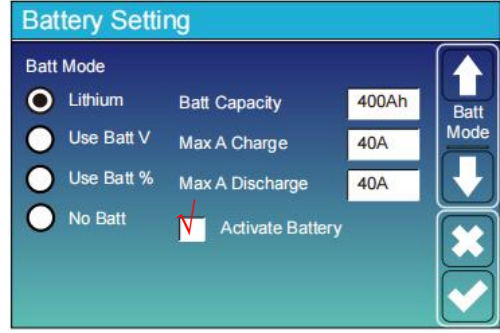
③

This is the main menu for settings



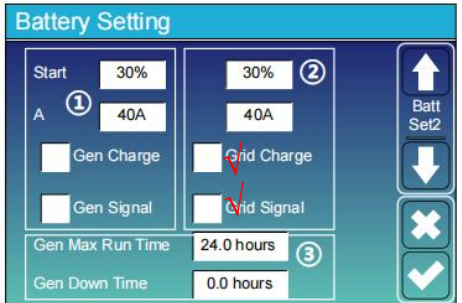
④

Click Basic Setting and **check time Syncs, Beep, Auto D M.** (Click the touch screen to select the setting item, the physical button Down and up can add or subtract the value, click the touch screen check to confirm the saving of the setting parameters.)



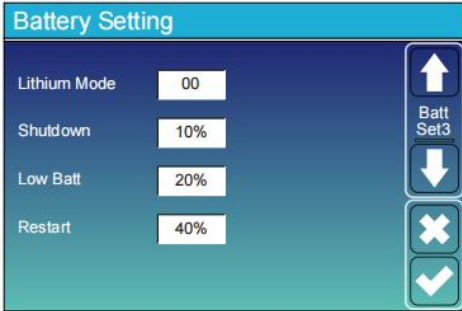
Set Batt mode to Lithium, battery capacity to XAh, maximum charging current to X A, maximum discharge current to X A, and check **Activate Battery**

Matching Setting of Inverter and BMS-2



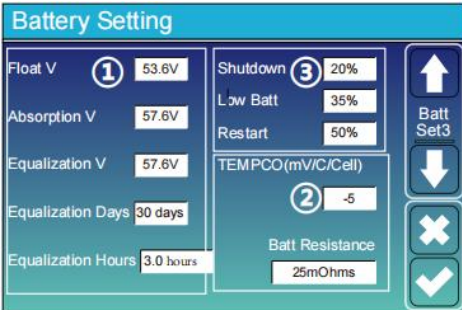
5

Click the screen down button,
 (1) column to set the charging SOC;
 (2) To set the charging column, **Grid Charge, Grid Signal** must be checked;
 (3) 24H means it won't be closed all the time. Gen Down Time: Indicates the delay time that the generator stops working after it reaches the run time .



6

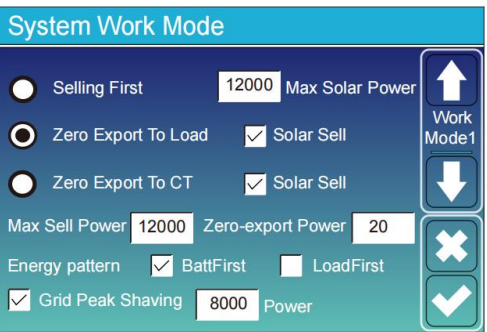
Lithium battery mode: Press the physical button to select the **SHEnergy** protocol.
 Shutdown threshold: If the SOC is lower than 10%, the inverter will automatically shut down.
 Low Batt: When the SOC is below 20%, the inverter alarms. Restart: Restore the battery voltage at 40% AC output.



7

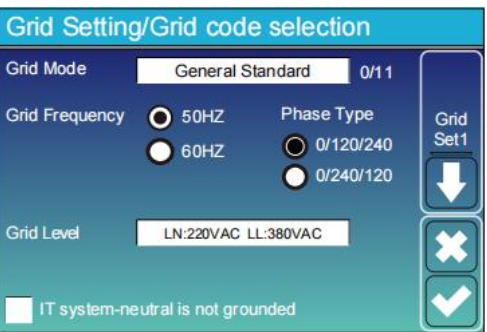
Click the screen down button
 (1) default settings;
 (2) Default settings;
 (3) Shutdown 20%, low power 35, output recovery SOC: 50%.

Matching Setting of Inverter and BMS-3



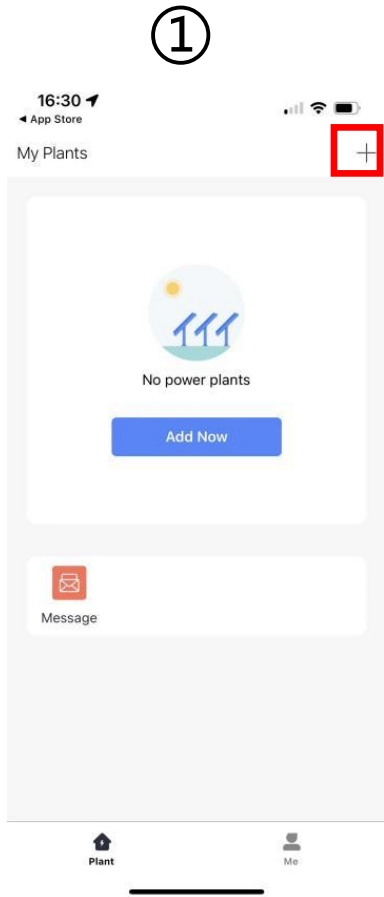
8

Select Selling first

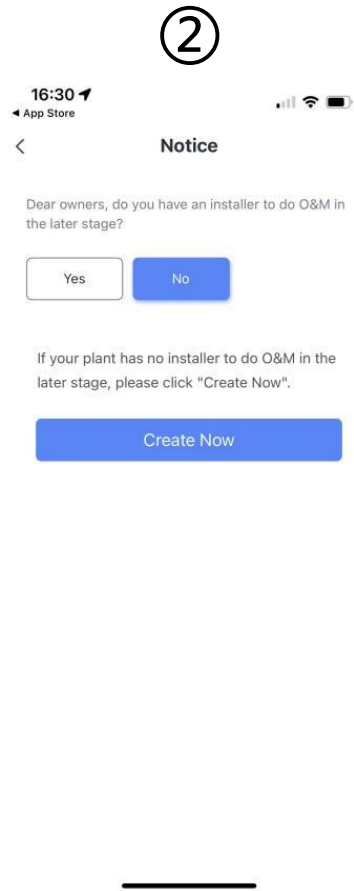


9

Follow the local grid code and select the appropriate grid standard



Open the software and click on the upper right corner to add a power station



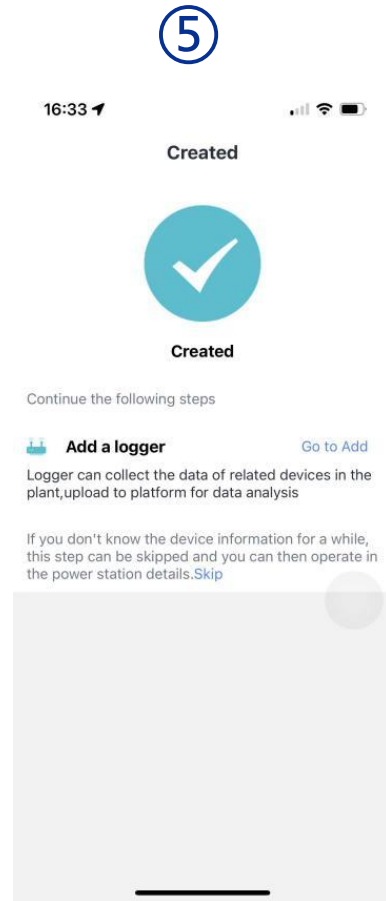
Choose according to the actual situation



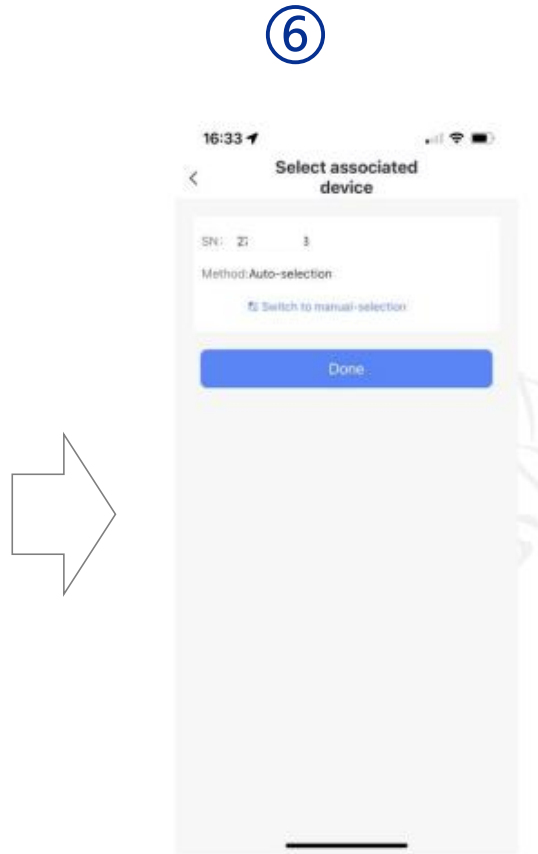
Waiting for location confirmation



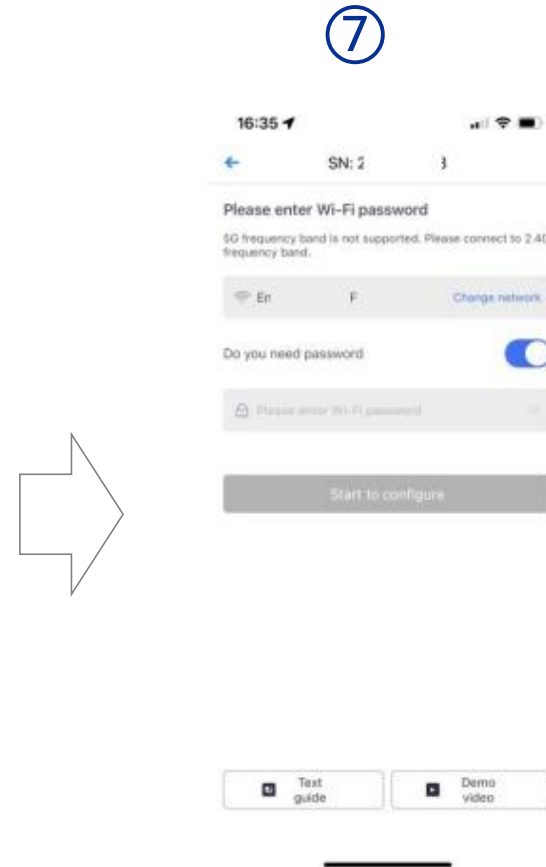
Set the power station name and installed capacity



Add collector after creation



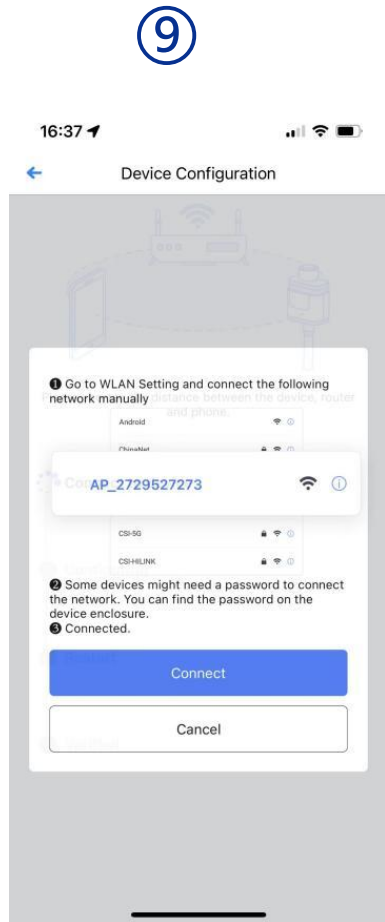
Scan the SN code of the corresponding collector



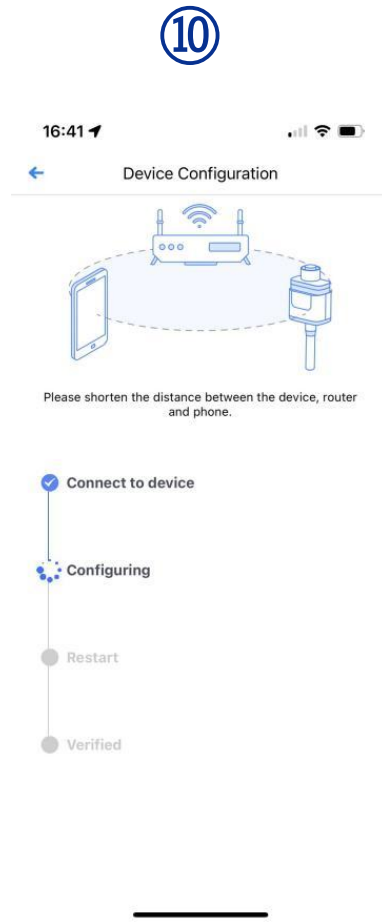
ADD A 2.4GWIFI



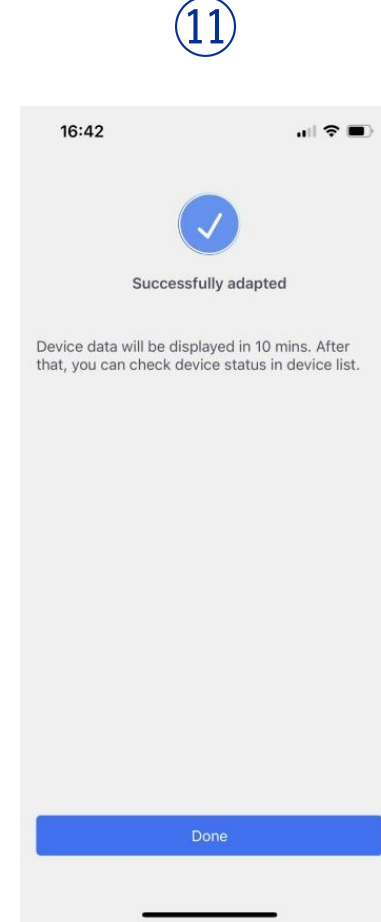
WiFi network test



Connect to the collector WIFI



Waiting for the configuration to complete



Exit the configuration interface when complete