

Isuna 6000S first installation setup and inspection

This guide document aims to help you understand and correctly use the inverter. Please read this guide document carefully before the initial installation and follow the instructions.

1. Working Mode Setup

a. Self-use mode

- Set **[Working Mode]** to "Self-use Mode".



b. Timed Chg&Dchg Mode

- Set **[Working Mode]** to "Timed Chg/Dchg Mode";
- Set **[Charge Period]**, **[Discharge Period]**, and **[Power]** as required (Charge/Discharge periods must be within one day, cannot overlap, and the end time of one period cannot overlap the start time of the

next);

- Set **[Other Period Modes]** as required (Other periods refer to times outside the set Charge/Discharge periods);
- Set **[Repetitive Weeks]** as required;
- Set **[Effective Date]** as required (The date range must include the current date for the settings to take effect).

< Parameter Settings

Power On/Off ☒

Date 2025-08-18 01:12:02

Working Mode Timed Chg&Dchg Mode

	Time Period ⓘ	Power
Charging1	18:40 ~ 22:59	5kW
Discharge1	23:00 ~ 23:30	5kW
Charging2	23:31 ~ 16:00	2kW
Discharge2	16:01 ~ 18:30	5kW

(+) (-)

Other Period Modes Self-use

Repetitive Weeks Every Day

Effective Date 2025.03.21 - 2045.12.31

Fault Clearing [Clean Up](#)

Batt1 Min. SoC 10%

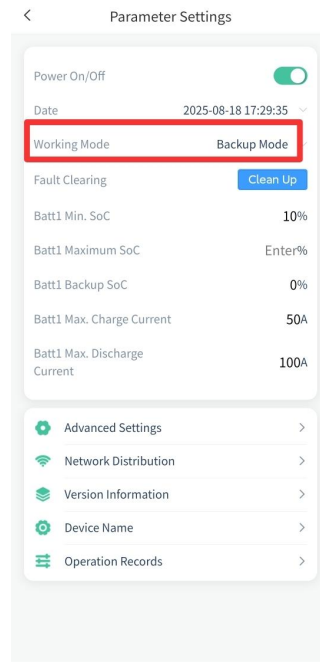
Batt1 Maximum SoC 100%

Batt1 Backup SoC 10%

Batt1 Max. Charge Current 25A

c. Backup Mode

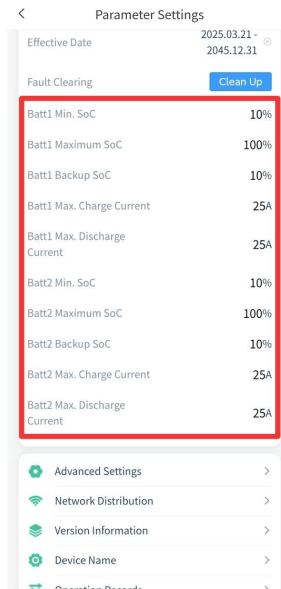
- Set **[Working Mode]** to "Backup Mode".



2.Other Settings

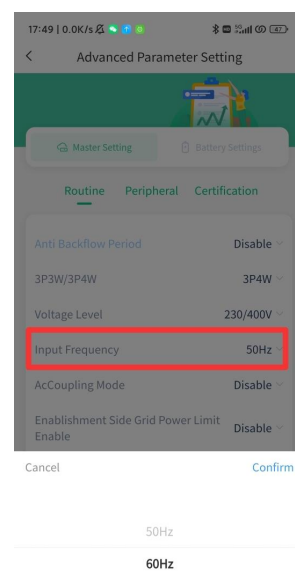
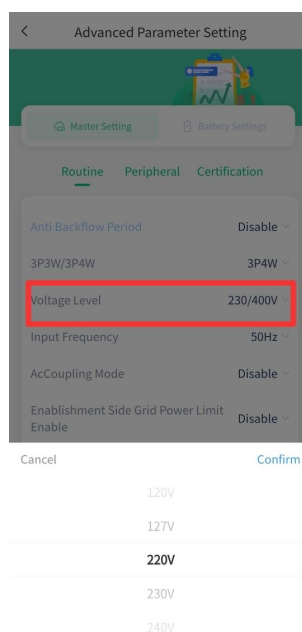
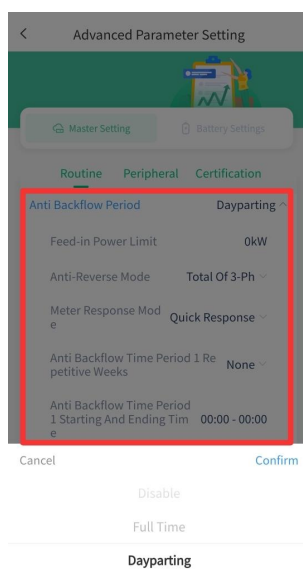
Battery General Settings

- Set **[Battery Min SOC]** as required;
- Set **[Battery Maximum SOC]** as required;
- Set **[Battery Backup SOC]** as required;
- Set **[Battery Max Charge Current]** as required;
- Set **[Battery Max Discharge Current]** as required.



a. Advanced Settings - Routine

- Set **[Anti-backflow Period]** as required (Set to "Disable" to allow feeding power back to the grid; Set to "Full Time" to completely prohibit feeding back to the grid; Set to "Dayparting" and configure the allowed feed-in periods as required to allow time-based feeding);
- Set **[Voltage Level]** according to the grid voltage level;
- Set **[Input Frequency]** according to the grid frequency level.



- Set **[Stand-Alone/Parallel]** as required (If multiple units are paralleled, **[Number of Device]** and **[Parallel Device SN]** also need to be set according to the actual configuration);
- **[AC Coupling Mode]** Default is "Disable" (Set to "Enable" if AC coupling with other PV inverters is required);
- **[Establishment Side Grid Power Limit Enable]** Default is "Disable" (Set to "Enable" if limiting the grid input power is required);
- **[Grid Power Limit]** After enabling the function, set the power limit as required.

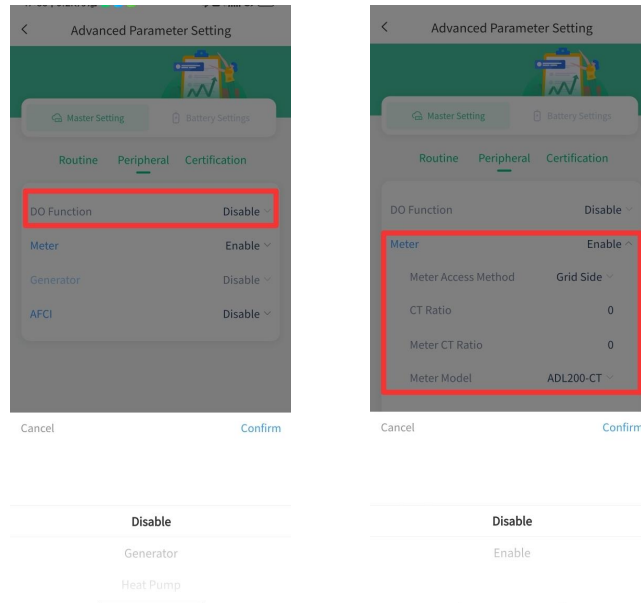
Advanced Parameter Setting	Advanced Parameter Setting	Advanced Parameter Setting
Master Setting Battery Settings Routine Peripheral Certification BMS1 RS485 Multiplexing BMS RS485 Communication BMS2 RS485 Multiplexing BMS RS485 Communication Stand-Alone/Parallel Parallel Operation Number Of Device 4 Parallel Device SN 1 1 Phase Parallel Mode Single-Phase	Master Setting Battery Settings Routine Peripheral Certification Anti Backflow Period Full Time Voltage Level 230V Input Frequency 50Hz AcCoupling Mode Disable Establishment Side Grid Power Limit Enable Disable Grid Power Limit 0	Master Setting Battery Settings Routine Peripheral Certification Anti Backflow Period Full Time Voltage Level 230V Input Frequency 50Hz AcCoupling Mode Disable Establishment Side Grid Power Limit Enable Disable Grid Power Limit 0
Cancel Confirm	Cancel Confirm	Cancel Confirm

Stand-Alone	Disable	Disable
Parallel Operation	Enable	Enable

b. Advanced Settings - Peripheral

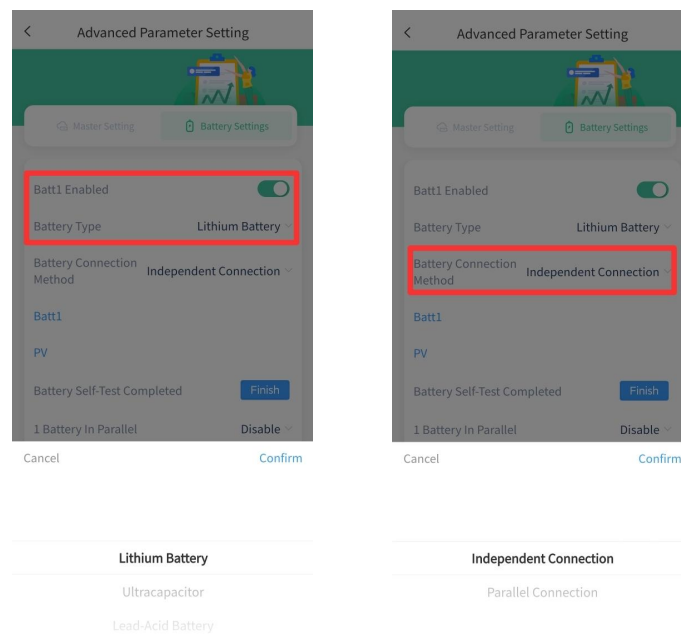
- **[DO Function]** Default is "Disable" (Select the corresponding type according to actual use if a generator or heat pump is connected);
- **[Meter]** Default is "Enable" (For Isuna6000S: When meter model "ADL200-CT" is selected, choose "Grid Side" for the meter

connection method; When meter model "ADL200" is selected, choose the corresponding location for the meter connection method according to the actual connection diagram).

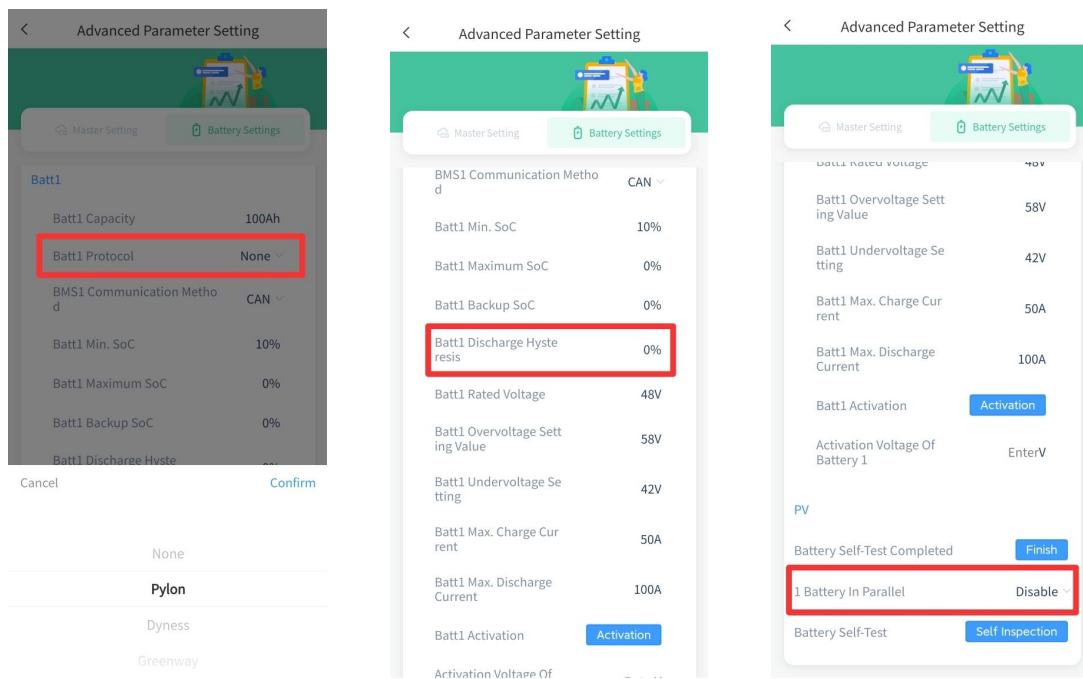


c. Advanced Settings - Battery

- **[Battery Enabled]** Must be enabled;
- **[Battery Type]** Select according to the actual connected battery type;
- **[Battery Connection Method]** Default is "Independent Connection".



- **[Battery Protocol]** Default is "Pylon" (Select other protocols from the list if used);
- **[Battery Discharge Recovery Difference]** Default is "5%" (This value is the difference required to charge the battery after discharge termination before it can discharge again);
- **[Single Battery with Multiple Parallel Units]** Default is "Disable" (Set to "Enable" if one battery bank is connected to multiple paralleled inverters).



2. Inspection

If all the above settings are checked and correct, but the system still does not function normally (no energy flow shown on the homepage), inspect the following sections:

Measurement Data - Meter

- **Meter Offline:** Check if the communication cable wiring sequence is correct;
- **Meter Online but Readings Incorrect:** If using the ADL200-CT meter model, check if the CT clamp is clamped onto the main grid circuit and if the arrow on the CT clamp points towards the grid; If using the ADL200 meter model, check the meter installation position and whether the L/N, L1/N1 connection directions are correct.

Measured Data

Grid

Backup

Meter

PV

Batt.

Inv.

Meter Operating Status

Online

Meter Voltage

238.8V

Meter current

3.47A

Meter apparent power

0.83kVA

Meter Active power

0.65kW

Reactive power of electric meter

0.51kVar

Power factor of electric meter

0.79

Three-phase total active power

2422.56kW.h

Positive active energy

2421.9kW.h

Reverse active energy

0.66kW.h

Forward Reactive Energy

437.28kVar.h

Reverse Reactive Energy

41.78kVar.h

Meter Model

ADL200-CT

Meter Firmware Version

0

Measurement Data - Grid

- **Grid connected but no voltage data:** Check if the Grid L line is connected to the L3 terminal of the AC connector.

Measured Data

Grid

Backup

Meter

PV

Batt.

Inv.

Purchased Energy

2286.21kW.h

Feed quantity

66.95kW.h

Purchased Energy Today

14.15kW.h

Feed in energy Today

0.02kW.h

Grid Total power

0kW

DRED Status

0

Grid voltage

239.94V

Grid voltage frequency

60.41Hz

Grid current Effective value

0A

Grid apparent power

0kVA

Grid active power

0kW

Grid reactive power

0kVar

a. Measurement Data - Load

- **Grid-side general load is on but load power is not displayed on the homepage:** If using the ADL200-CT meter model, check if the CT clamp is clamped onto the main grid circuit and if the arrow on the CT clamp points towards the grid; If using the ADL200 meter model, check the meter installation position and whether the L/N, L1/N1 connection directions are correct.

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Measured Data

Grid

Backup

Meter

PV

Batt.

Inv.

Total load power

2.26kW

Total backup load power

1.91kW

Total normal load power

0.15kW

Load voltage

239.32V

Load Voltage Frequency

60.39Hz

Load current effective value

8.03A

Load apparent power

1.91kVA

Load active power

1.9kW

Load reactive power

-0.16kVar

b. Measurement Data - Battery

- **Battery Offline:** Check if the communication cable wiring sequence is correct and if the cable is firmly plugged in.

Measured Data	
kup Meter PV Batt. Inv. Debugging	
Total battery power	4.61kW
Batt1 Operating Status	Charge
Batt1 voltage	54.73V
Batt1 current	91.8A
Batt1 Power	5kW
Battery 1 SoC	66%
Batt1 full load support time	0.46h
Batt1 Load Rate	100.03%
BattCab 1 BMS Operating Status	Online
BattCab 1 Basic Status	Charging
BattCab 1 Cycle	0
BattCab 1 Total Charged Energy	0kW.h
BattCab 1 Total Discharged Energy	0kW.h
BattCab 1 Total Voltage	54V
BattCab 1 Total Current	91.7A
BattCab 1 Temperature	34.9°C
BattCab 1 SoC	
BattCab 1 SoH	100%