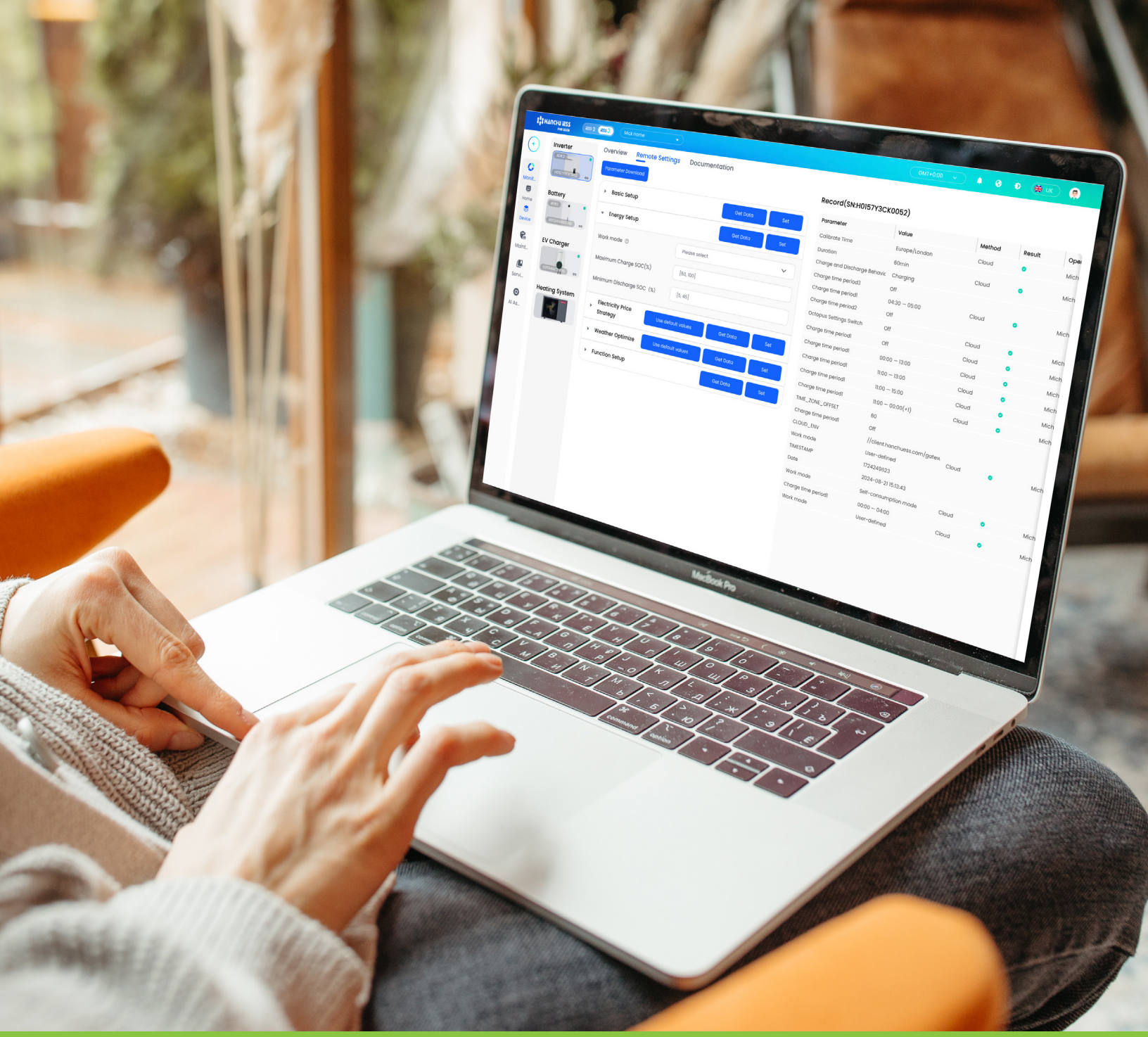

HANCHU ESS Battery Storage System - **User Guide**

How Do I Choose Between Different Working Modes? – Web-Portal

Version 1.0

Infinity Innovations | HANCHU ESS

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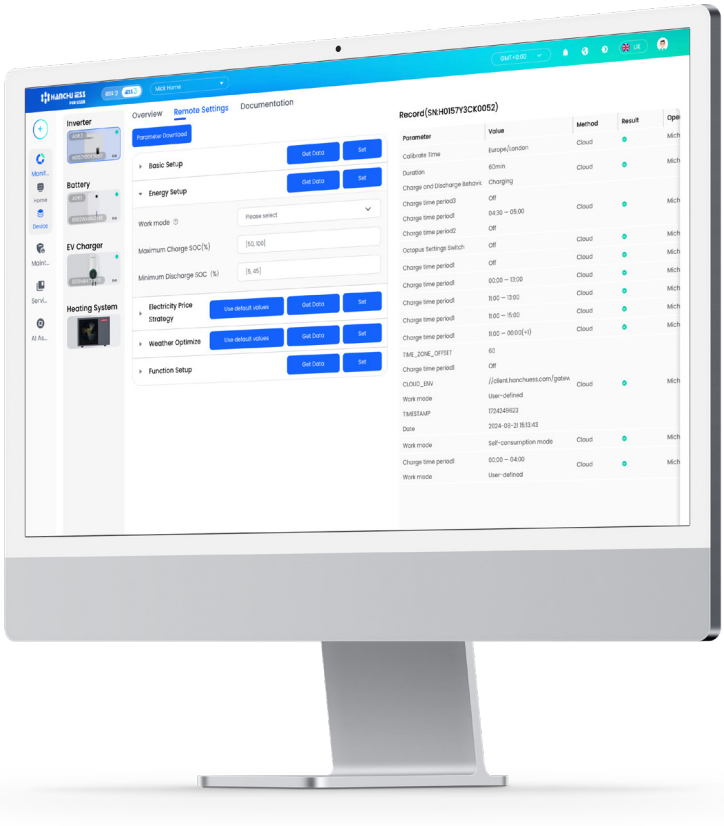
1. Introduction

1.1 Selecting the Right Working Mode for Your Needs

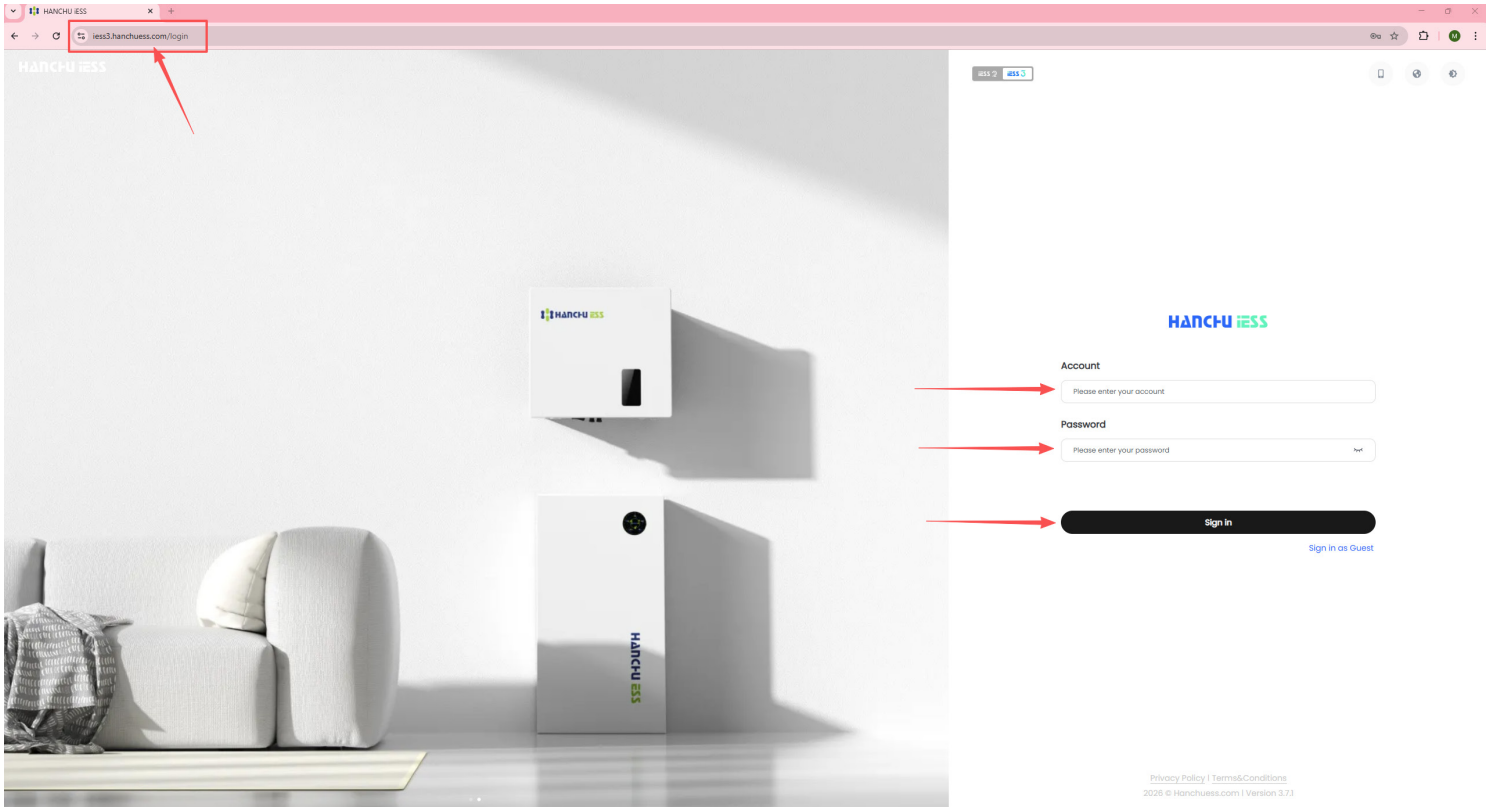
Choosing the correct working mode for your Hanchu ESS system is one of the most important decisions you can make to optimize your energy management and maximize the benefits of your battery storage system. Different working modes are designed for different situations and priorities, and the best choice depends on your specific circumstances, energy usage patterns, and financial goals. This guide will help you understand the decision-making process and provide guidance on how to evaluate which working mode is best suited to your needs.



2. Step-by-Step Guide to Accessing Working Modes

2.1 Step 1: Log In to the Hanchu ESS Portal

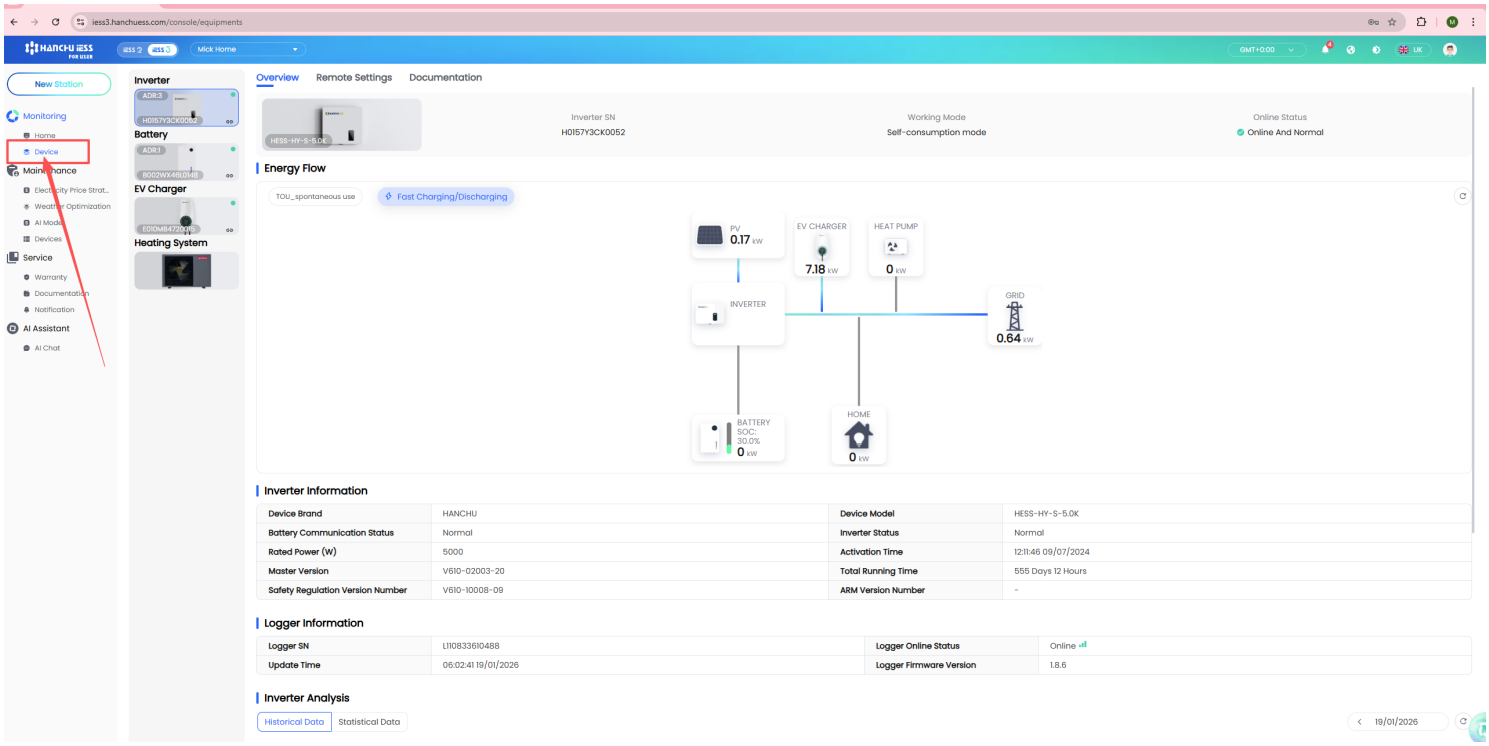
Begin by accessing the Hanchu ESS web portal. Open your web browser and navigate to the portal URL. You will be presented with the login screen. Enter your **Account** (username) and **Password**, then click the **Sign In** button.



2. Step-by-Step Guide to Accessing Working Modes

2.2 Step 2: Navigate to Devices

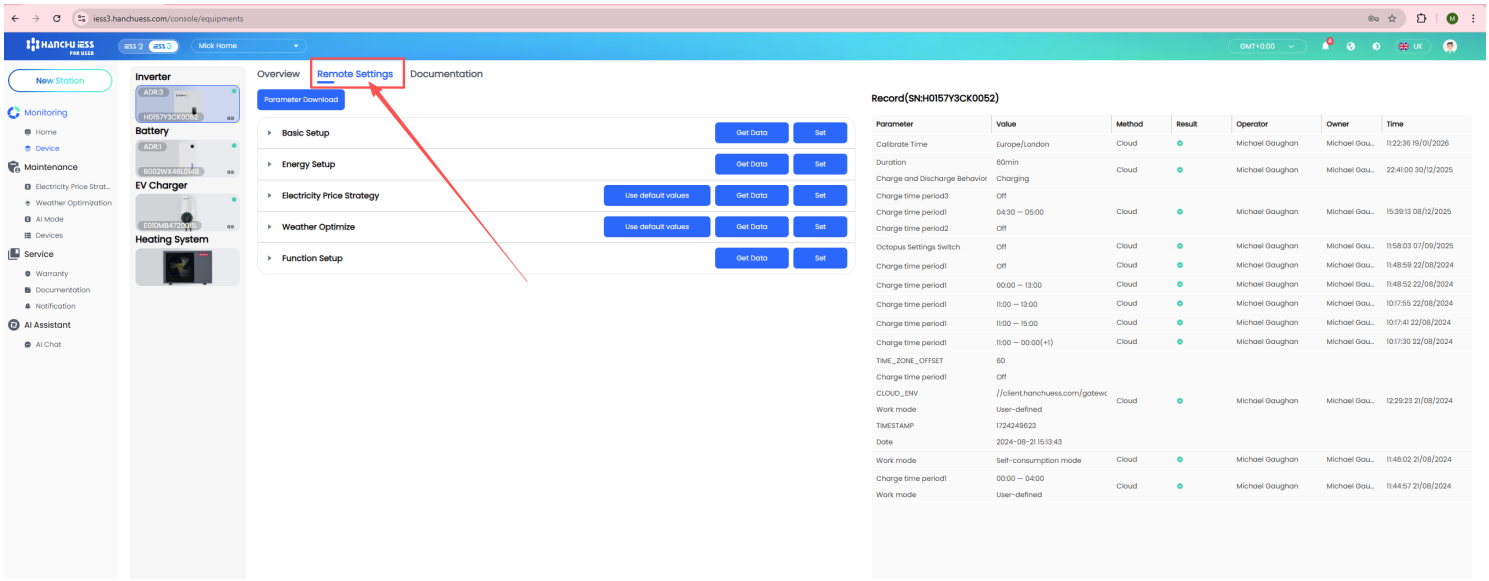
From the main dashboard, locate the Device option in the left-hand sidebar menu. Click on Device to view a list of all components in your Hanchu ESS system.



2. Step-by-Step Guide to Accessing Working Modes

2.3 Step 3: Select Your Inverter

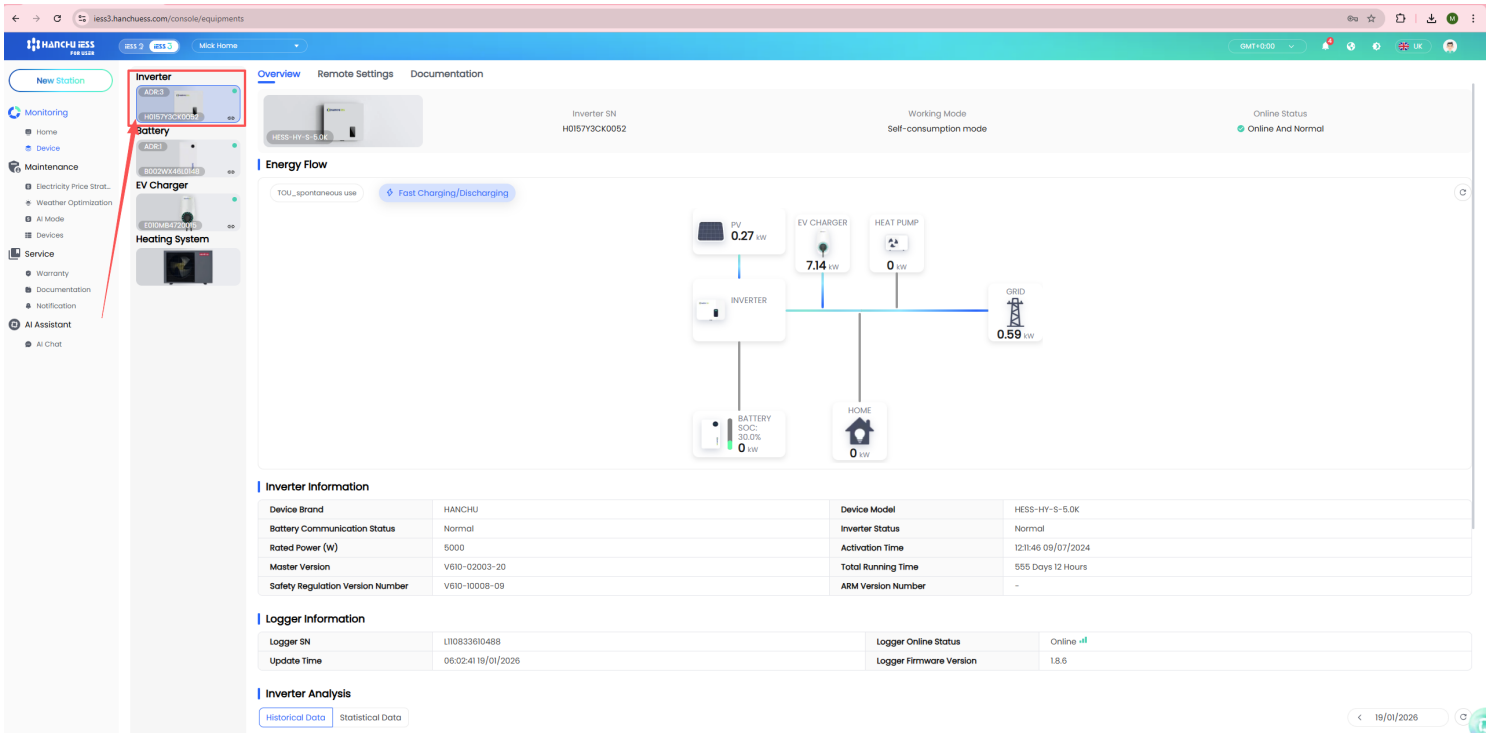
The inverter is the default device selected at the top of the devices page. You can confirm it is selected by ensuring the inverter image is highlighted.



2. Step-by-Step Guide to Accessing Working Modes

2.4 Step 4: Access Remote Settings

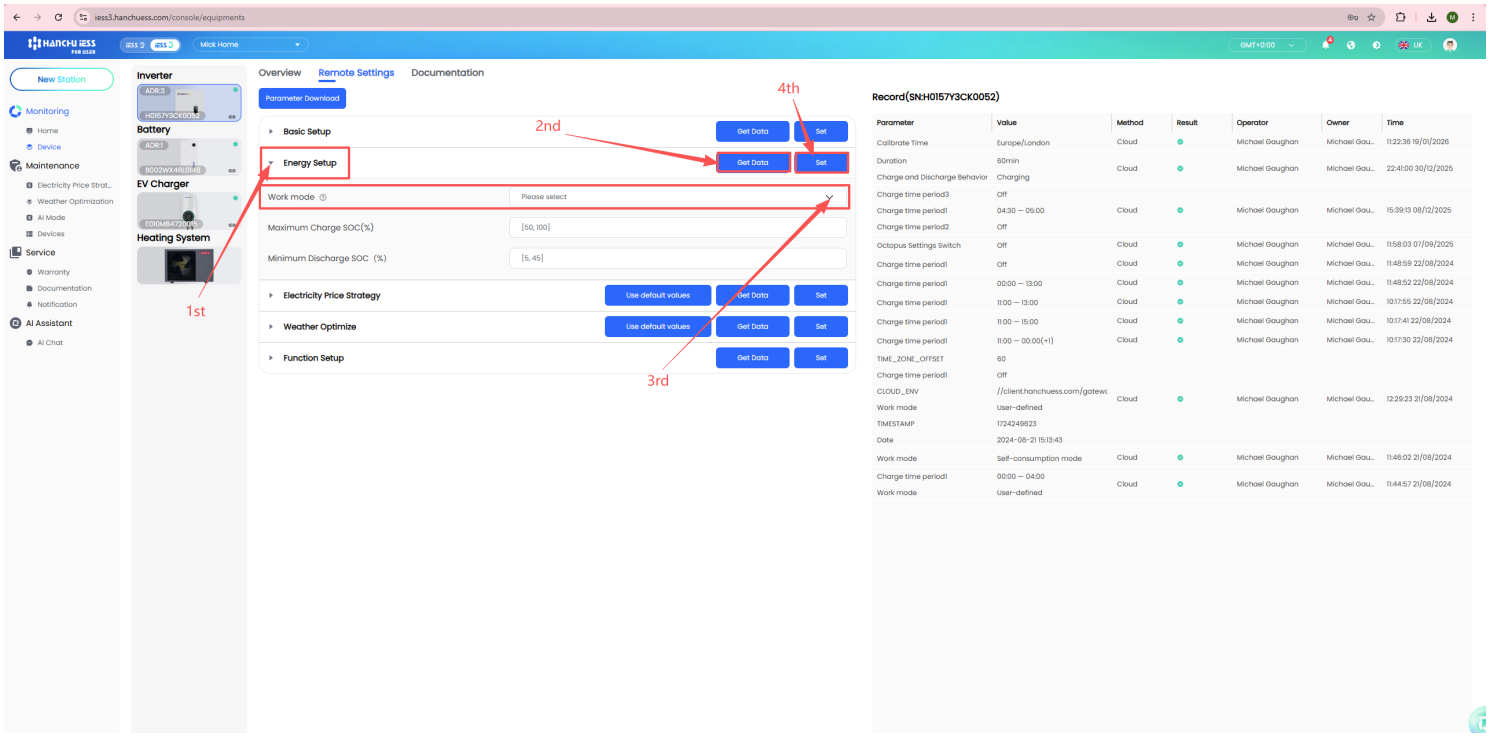
At the top of the inverter detail page, click on the **Remote Settings** tab. This will take you to the remote configuration interface for your inverter.



2. Step-by-Step Guide to Accessing Working Modes

2.5 Step 5: Locate the Energy Setup Section

On the Remote Settings page, scroll down to find the Energy Setup section. This is where the Work mode selection is located. Here you will find a dropdown menu labeled Work mode. Clicking this menu will reveal the different modes available for your system.



3. How to Choose the Right Working Mode

Selecting the right working mode requires you to consider several factors about your home, your energy usage, and your priorities. Below is a comprehensive guide to help you make this decision.

3.1 Key Factors to Consider

1. Do You Have Solar Panels?

YES: Self-Consumption, Export, or Smart modes | NO: Time-of-Use, Backup Power, or Battery Priority modes

2. What is Your Primary Priority?

Self-sufficiency: Self-Consumption | Cost savings: Time-of-Use | Backup power: Backup Power | Income: Export Mode | Automation: Smart/AI

3. What is Your Electricity Tariff?

Flat rate: Self-Consumption or Export | Time-of-Use: TOU mode | Feed-in tariff: Export mode | Unsure: Smart/AI mode

4. How Reliable is Your Grid Power?

Very reliable: Any mode | Occasional outages: Backup Power | Frequent outages: Battery Priority

5. What is Your Usage Pattern?

High daytime: Self-Consumption | High evening: TOU or Battery Priority | Consistent: Smart/AI | Variable: Smart/AI

4. Detailed Mode Selection Guide

Working Mode	Choose This If	Key Considerations	Expected Benefit
Self-Consumption	You have solar panels and want to maximize your use of the solar energy you generate. Your primary goal is to reduce your dependence on grid electricity.	You need good solar production. Works best in sunny climates. Requires monitoring to understand your usage patterns. Best suited for homes with daytime energy usage.	Reduced electricity bills, increased energy independence, environmental benefits. Typical savings of 20-40%.
Time-of-Use (TOU)	Your electricity provider offers different rates for peak and off-peak hours. You want to shift your energy consumption to cheaper hours.	Requires setup of peak and off-peak times specific to your tariff. Works best if you can shift some consumption to off-peak hours. Battery must be large enough to cover peak usage.	Significant reduction in electricity bills (20-40% savings possible). Financial returns depend on the difference between peak and off-peak rates.
Backup Power	You live in an area with unreliable grid power or frequent outages. You have critical appliances that must stay powered.	Battery should be sized appropriately for your critical loads. System will keep battery charged at high levels. Not ideal if your primary goal is cost reduction.	Peace of mind, continuous power during outages, protection of critical systems. Ensures you always have backup power available.
Export Mode	Your region offers attractive feed-in tariff rates. You want to maximize financial returns from your solar and battery system.	Requires grid export capability and feed-in tariff agreement with your provider. Income depends on export rates and energy prices. Works best with high solar production.	Additional income from exported energy, faster return on investment. Financial returns can be significant in regions with high feed-in tariff rates.
Battery Priority	You are preparing for an expected power outage. You want to ensure maximum battery capacity is available.	Temporary mode - use when preparing for outages, then switch to another mode. Battery charges from all sources. Not recommended as a permanent mode.	Maximum battery charge, maximum backup capacity, peace of mind before expected outages. Ensures maximum energy available for critical needs.
Smart / AI Mode	You want a hands-off, automatic approach. Your usage patterns or priorities change frequently. You want the system to optimize itself.	Requires the system to learn your patterns (may take 1-2 weeks). Works best with varied usage patterns and tariffs. Requires accurate weather data.	Optimal efficiency, reduced need for manual adjustments, best economic outcome over time. The system continuously adapts to changing conditions.

5. Important Considerations

Changing Modes: You can change your working mode at any time. There is no penalty for switching modes, so feel free to experiment and find what works best for you.

Trial Period: Consider running your system in Smart/AI mode for 1-2 weeks to let the system learn your patterns and usage. You can then review the results and switch to a more specific mode if desired.

Monitoring: Whichever mode you choose, monitor your system regularly to ensure it is performing as expected. Check your energy production, consumption, and battery levels to validate that your chosen mode is delivering the expected benefits.

Seasonal Changes: Your optimal mode may change with the seasons. For example, you might use Self-Consumption in summer when solar production is high, and switch to Time-of-Use in winter when solar production is lower.

Professional Advice: If you are unsure which mode is best for your situation, contact your installation company for personalized recommendations based on your specific circumstances.

5.1 Next Steps

Once you have decided which working mode is best for you, follow these steps to apply it: 1. Click the **Get Data** button to retrieve current settings 2. Select your desired mode from the **Work mode** dropdown 3. **Click** the Set button to apply the change 4. Monitor your system for 1-2 weeks to evaluate performance 5. Adjust if needed based on your results

6. Need Help?

If you have questions about which working mode is best for you, or if you need help configuring a specific mode, please contact your installation company for technical support.