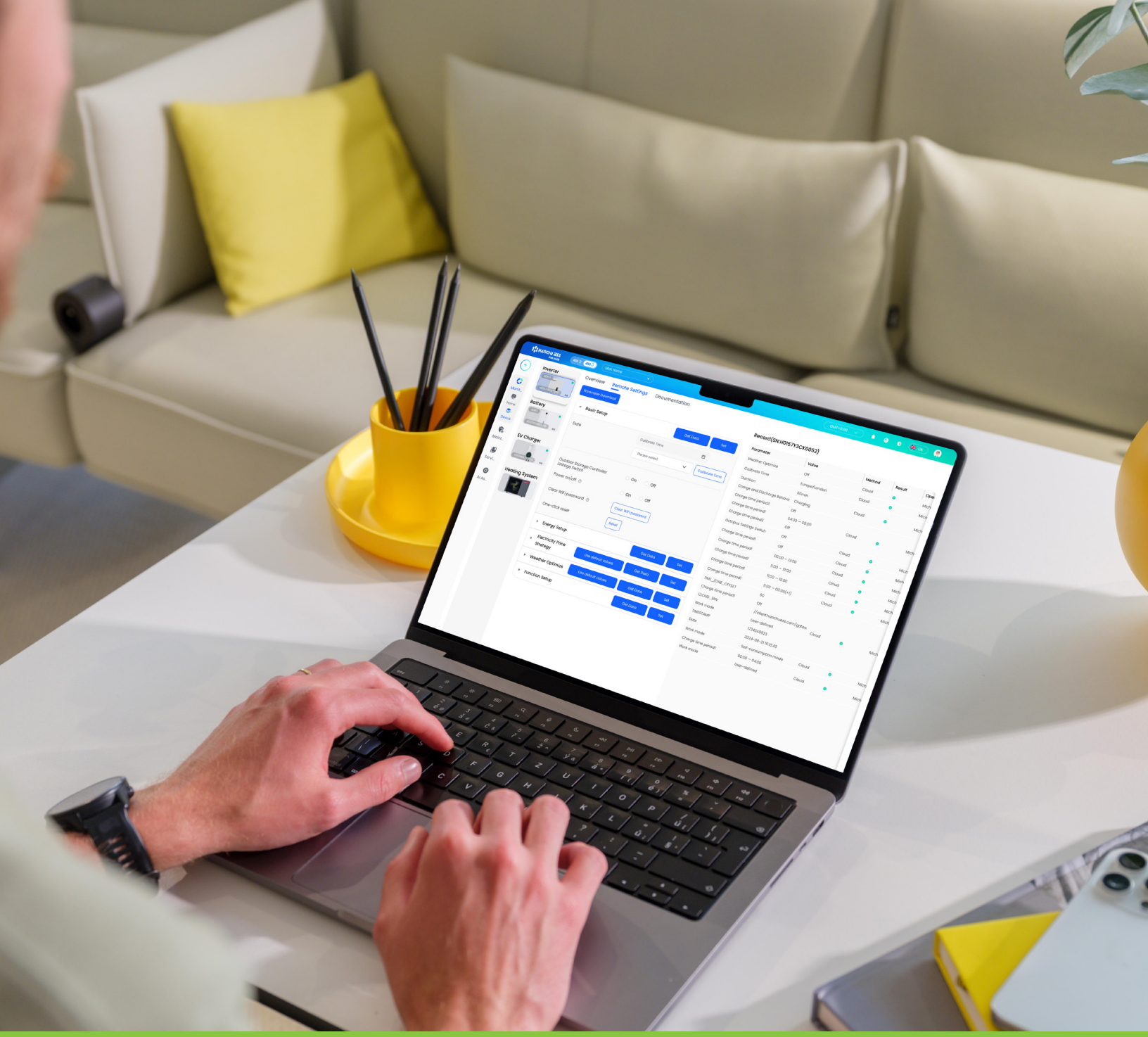


HANCHU ESS Battery Storage System - **User Guide**

How to Calibrate the Time on Your Inverter – Web-Portal

Infinity Innovations | HANCHU ESS

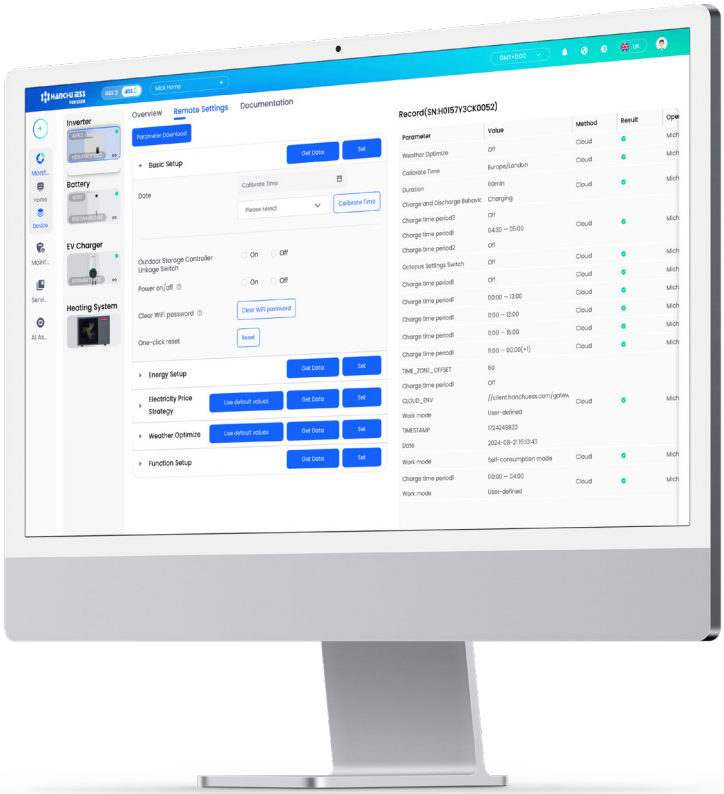
Version 1.0

Table of Contents

1. Introduction
2. Step-by-Step Instructions
   - 2.1 Step 1: Log In to the Hanchu ESS Portal
   - 2.2 Step 2: Navigate to Devices
   - 2.3 Step 3: Select Your Inverter
   - 2.4 Step 4: Access Remote Settings
   - 2.5 Step 5: Calibrate the Time
3. Important Notes
4. Troubleshooting
5. Need Help?

1. Introduction

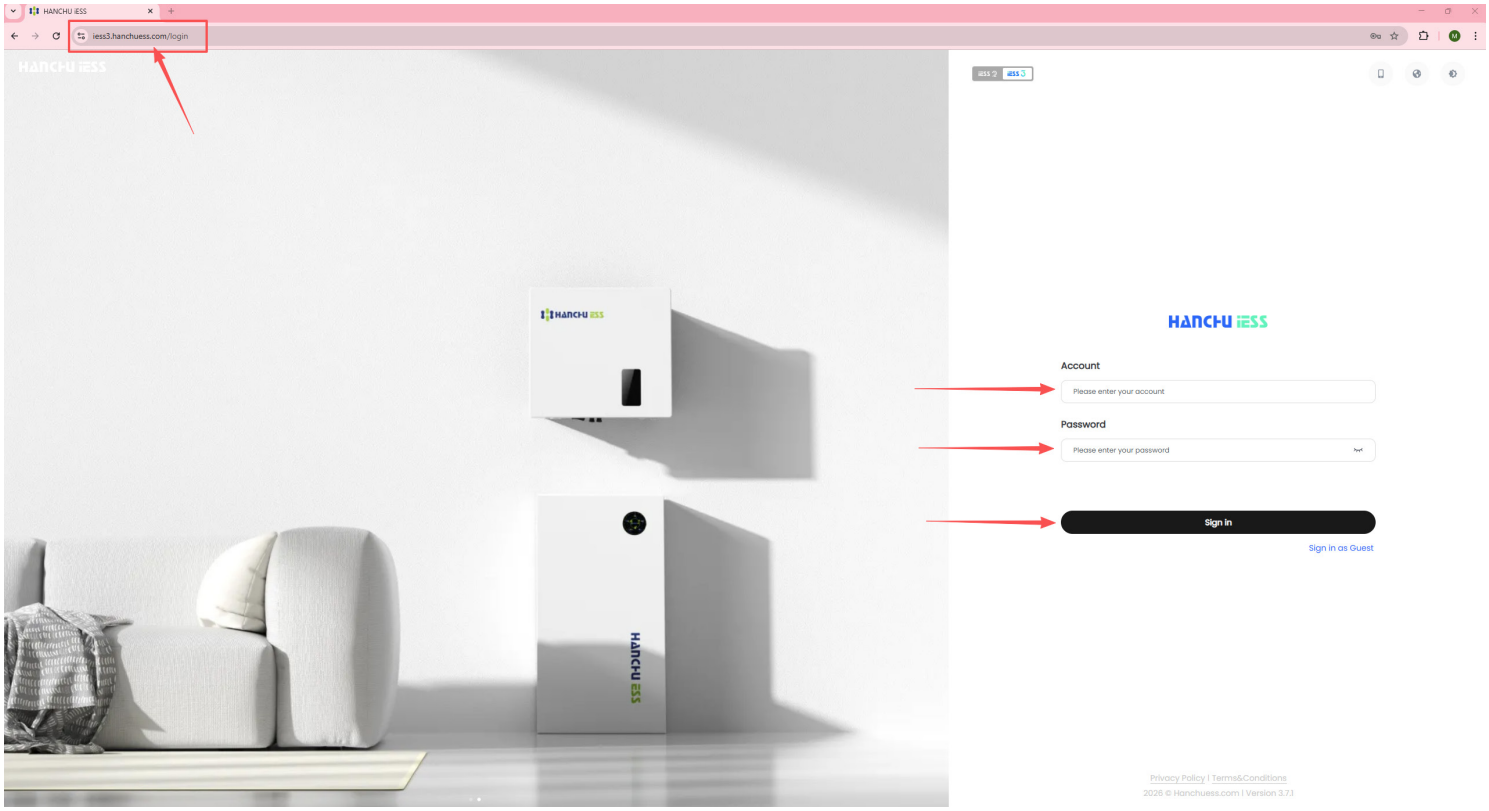
Accurate time synchronization is essential for your Hanchu ESS inverter to function properly, especially for time-based energy management features such as scheduled charging and discharging. This guide will walk you through the simple process of calibrating your inverter's internal clock using the Hanchu ESS web portal. The calibration process ensures that your inverter's time is synchronized with the current date and time, allowing for precise scheduling and monitoring of your energy system.



2. Step-by-Step Instructions

2.1 Step 1: Log In to the Hanchu ESS Portal

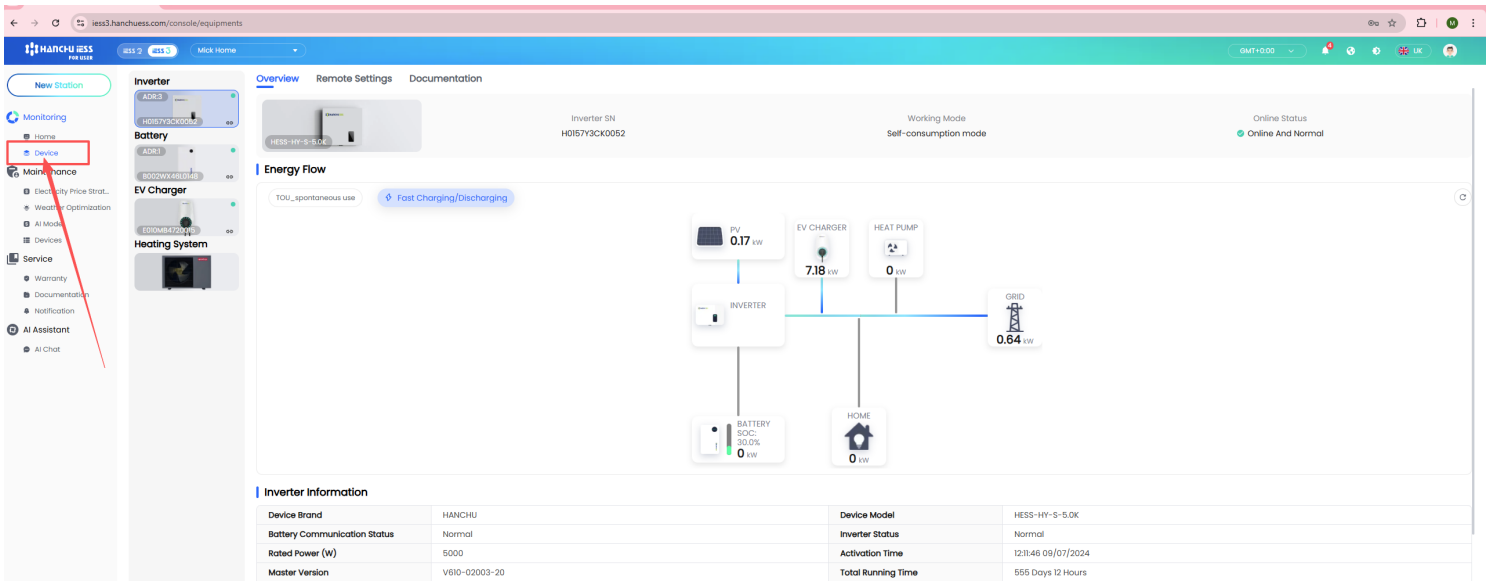
Begin by accessing the Hanchu ESS web portal. Open your web browser and navigate to the portal URL provided by your installer. You will be presented with the login screen where you need to enter your credentials. Enter your **Account** (username) in the first field, then enter your **Password** in the second field. Once both fields are completed, click the **Sign In** button to access your system dashboard.



2. Step-by-Step Instructions

2.2 Step 2: Navigate to Devices

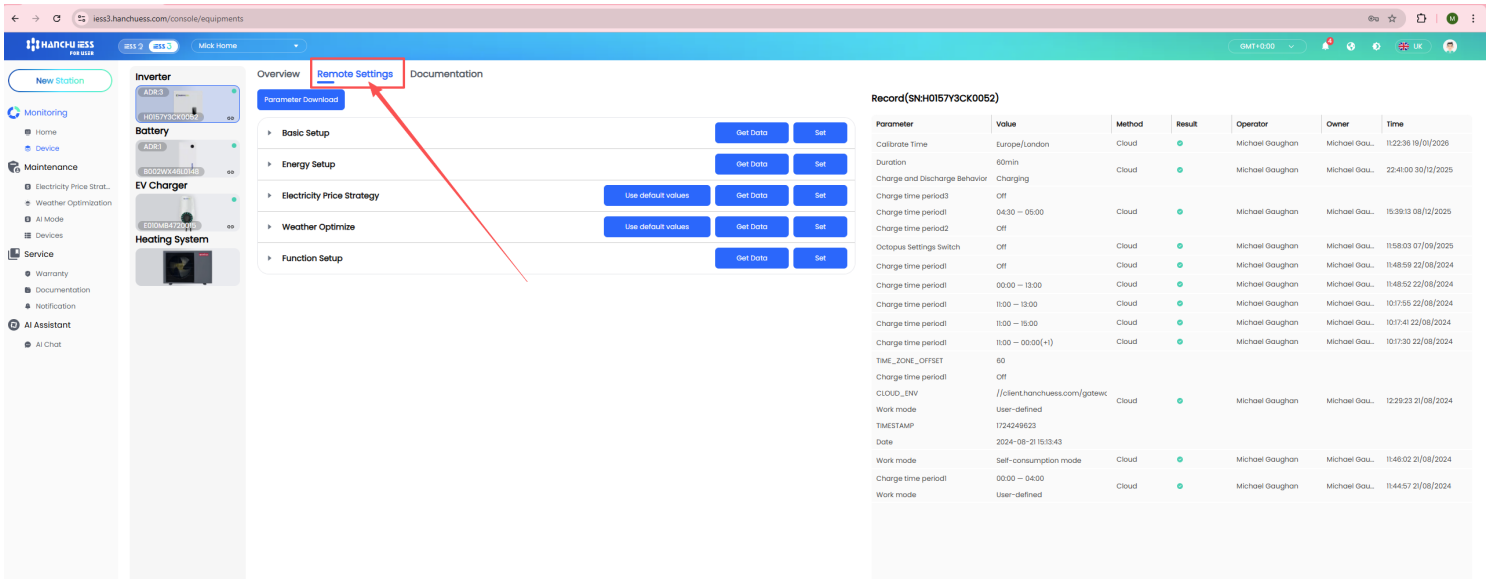
After successfully logging in, you will be taken to the home dashboard. From here, you need to access the device management section. Look at the left-hand sidebar menu and locate the **Device** option. Click on **Device** to view a list of all the components in your Hanchu ESS system.



2. Step-by-Step Instructions

2.3 Step 3: Select Your Inverter

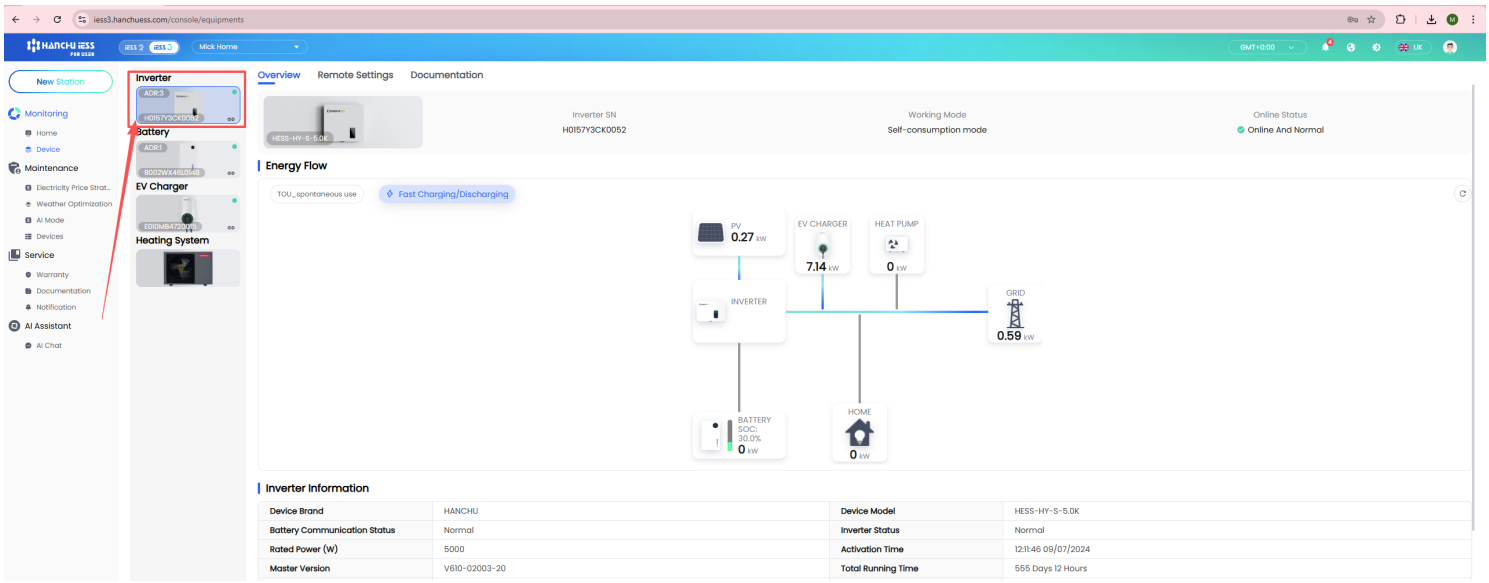
The inverter is already selected as the default device and is always positioned at the top of the devices page. You can click on the inverter image to ensure the inverter is selected correctly and to access its detail page.



2. Step-by-Step Instructions

2.4 Step 4: Access Remote Settings

From the inverter detail page, you need to access the remote configuration options. At the top of the inverter detail page, you will see several tabs including **Overview, Remote Settings**, and **Documentation**. Click on the **Remote Settings** tab to access the configuration interface.

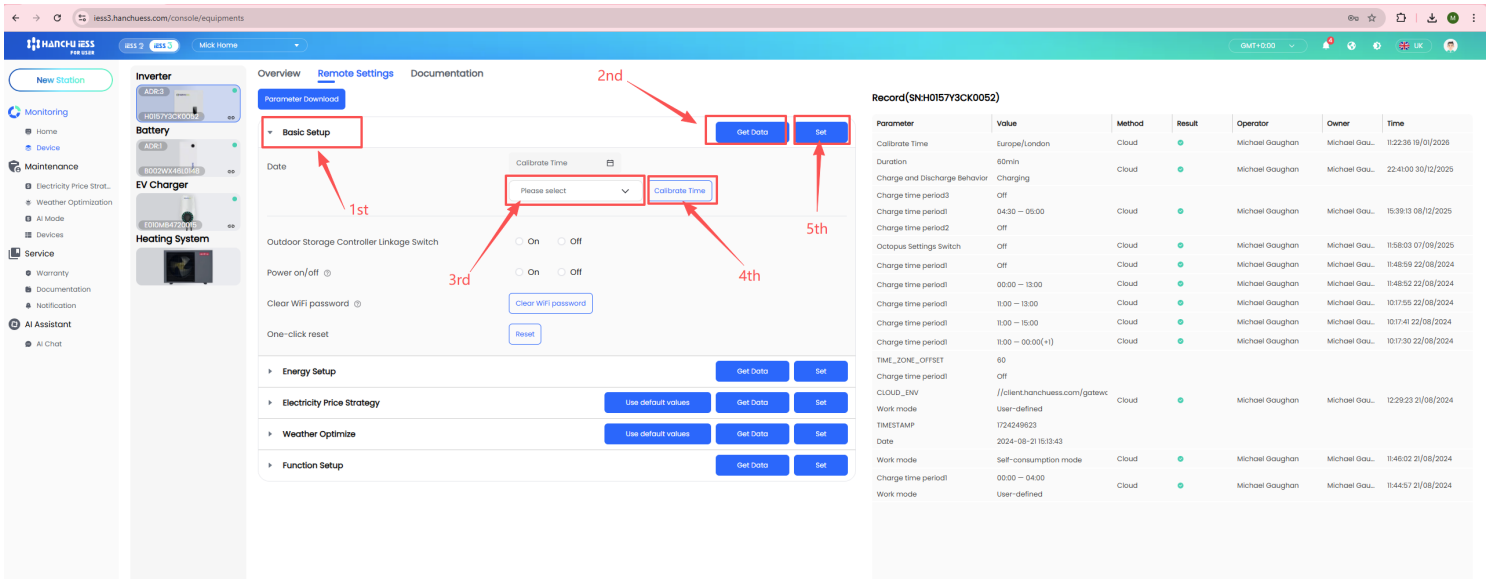


2. Step-by-Step Instructions

2.5 Step 5: Calibrate the Time

Now that you have accessed the Remote Settings page, you can proceed with calibrating the inverter's time. This process synchronizes the inverter's internal clock with the current date and time from the portal. Follow these steps in order:

1. **Open Basic Setup:** Click on the **Basic Setup** section header to expand it.
2. **Get Data:** Then click the **Get Data** button to retrieve the latest settings from the inverter.
3. **Select Timezone:** Click on the dropdown menu and select your correct timezone (e.g., GMT+0 (Europe/London)).
4. **Calibrate Time:** Click the **Calibrate Time** button. This will update the time field with the current time from the portal.
5. **Set:** Finally, click the **Set** button to save the new time settings to your inverter. A confirmation message will appear to confirm the setting has been applied.



Example: Setting Times for Expensive Tariffs

If your electricity provider offers expensive rates from 5:00 PM to 7:00 PM, you would set:

Field	Value
Start time	17:00
End time	19:00

3. Important Notes

Internet Connection Required: Time calibration requires an active internet connection between your inverter and the Hanchu ESS portal. Ensure your inverter is online before attempting to calibrate the time.

Timezone Selection: It is important to select the correct timezone for your location. The timezone setting affects all time-based scheduling features in your system.

Automatic Synchronization: Once calibrated, your inverter will maintain accurate time. However, if you change your location or if daylight saving time occurs, you may need to recalibrate the time to ensure continued accuracy.

4. Troubleshooting

Inverter Appears Offline: If your inverter is showing as offline, check your internet connection and ensure the inverter's communication module is functioning correctly.

Time Not Updating: If the time field does not update after clicking 'Calibrate Time', try refreshing the page and repeating the process. Ensure you have selected the correct timezone before calibrating.

Setting Not Applied: If the time settings are not applied after clicking 'Set', refresh the page and try again. If the issue persists, contact your installer.

5. Need Help?

If you encounter any issues, please contact your installation company for technical support.