LOCAL DEBUGGING APP

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1. About the Manual

1.1 Manual Content

Intended Audience This document describes the functions and operation flow of the HYXipower local debugging APP, helping users operate and manage the HYXipower local debugging APP.

The following is a list of symbols that may be used in this manual and should be read carefully for better use.

1.2 Applicable Content

HYXipower local debugging APP is suitable for users who buy Hyxi GPRS/4G, WIFI, network cable version data collector or DMU, inverter, upload HYXipower local debugging APP through the inverter device connected to the data collector or DMU, and log in through the APP side. It is used to monitor devices and manage, maintain, and commission the devices.

1.3 Applicable Requirements

IPhone: Apple App Market, search the keyword "HYXipower" download;

Non-China Android Google App market: search keyword "HYXipower" download;

Domestic Android phone: scan the QR code, use the default browser to open the download package.

1.4 For Readers

This document is intended for professional technical personnel who access, install, manage, and maintain HYXipowerAPP.Must have a certain network knowledge, familiar with the company's related products.

1.5 Manual Usage

Please read the manual carefully before using the product and keep the manual in a convenient place.

The content of the manual will be updated and amended continuously, but it is inevitable that there will be a slight discrepancy or error with the actual material. Please refer to the purchased product. You can download the latest version of the manual from hyxipower.com or obtain it through sales channels.

2. How to Start Using It

2.1 Overview

HYXipower local debugging APP is a new generation of local debugging tool developed by Hyxi Technology. The product integrates data monitoring, network configuration, control and maintenance, installation and debugging, which can monitor the running status of communication equipment and inverter equipment in real time, and assist installation personnel to quickly complete the installation and debugging work of equipment on site.
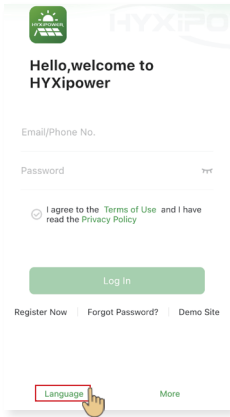
2.2 Language Settings
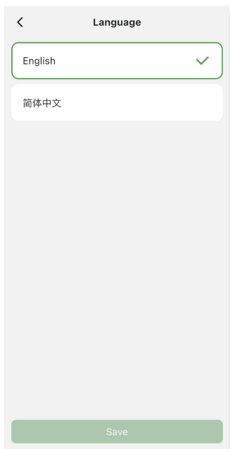
Function introduction

This section describes how to set the language.

Operation procedure

Step 1: Click the language switch button at the lower right corner of the login page.

Step 2: Click the selection box to switch the desired language, and click Save to complete the switch.

3. Local Debugging Function

3.1 WiFi Configuration

Function introduction

Configure the network to connect the device to the cloud platform through the WiFi of the communication device.

Preconditions

- The customer purchased communication equipment and inverter equipment from Hyxi on site;
- The customer site has a strong signal of the Internet wireless WiFi or network cable coverage or purchased a 4G card to insert the communication equipment.

Operation procedure

Step 1: Open the APP and click more_wifi Configuration (connect the device to WiFi).
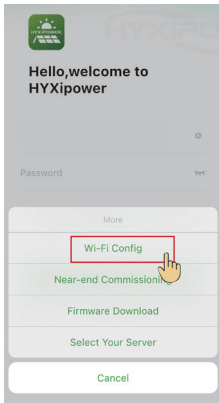
Step 2: In the wireless area of the mobile phone, locate the WiFi hotspot in the format of DMU-XXXXXXXXXXXXXX, DCS-XXXXXXXXXXXXXX, or MI-XXXXXXXXXXXXXX, and enter the WiFi password for connection. The password is 12345678.(Password cannot be changed, do not disclose).
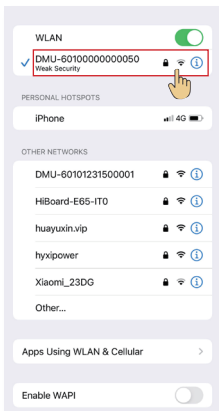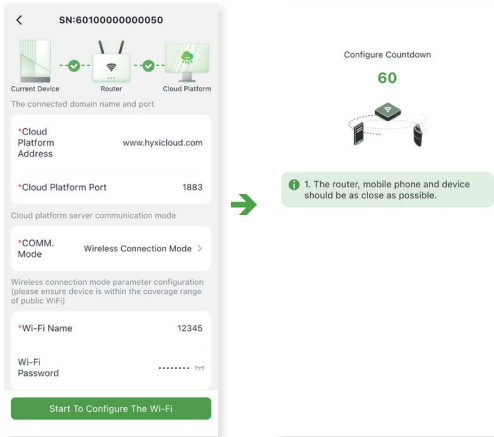
Step 3: After the WiFi connection is successful, the current WiFi connection will be displayed automatically. Click Next.
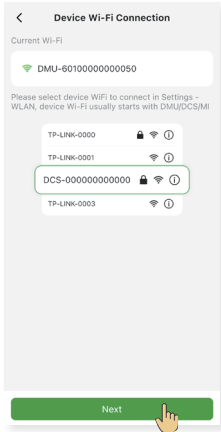

Step 4: Display the communication status between the current communication device and the router or base station and the cloud platform. Enter the domain name, port, communication mode, and configuration parameters of the corresponding communication mode to connect to the cloud platform server as required, and initiate networking configuration.

Parameter Name	Operation Instruction
Cloud platform address	The default domain name is www.hyxicloud.com.Can be changed to other addresses.
Cloud platform port	The default port is 1883.
Communication mode selection	Choose between wireless connection mode and wired connection mode. According to the type of the current connected device, the corresponding WiFi or 4G configuration is displayed respectively, whether the wired configuration is supported.
Wireless connection mode parameter configuration (WiFi configuration)	Enter the name of the environment WiFi and enter the password of the corresponding WiFi.
Wireless connection Mode Parameter configuration (4G configuration)	For non-China operators, enter the operator Settings, operator name, operator password as required.
Set cable connection mode parameters	The default mode is DHCP, that is, the IP address is automatically obtained. The MAC address and IP address are automatically displayed. If you choose not to automatically obtain IP address, enter the network IP address, network cable subnet mask, network cable default gateway, and network cable DNS.

Step 5: After the configuration is complete, click Finish to return to the login page. If the configuration fails, a message is displayed indicating possible causes for the failure. Click Finish to reconfigure the configuration.
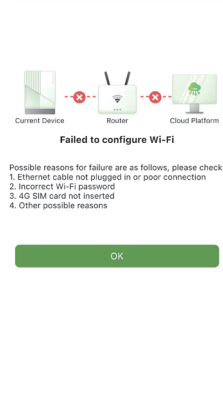
3.2 Downloading the Upgrade Package

Function introduction

Download the upgrade package of the device upgrade, and realize the real-time upgrade of the device;

Preconditions

- Service provider Hyxi maintains the latest upgrade package version in the firmware system;
- Network requirements: firmware download must be Internet conditions; The local upgrade must be done on the WiFi connected to the communication device.

Operation procedure

Firmware download steps:

Step 1: Open the mobile APP and select more firmware downloads from the login page.
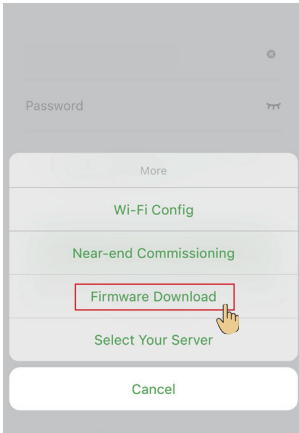
Step 2: On the page that is displayed, select the specific device type under each device type. Click a model to display all corresponding upgrade packages, and click the Download button. (Click the question mark to display the details of the upgrade package, including name, version number, size, update time, and repair content).
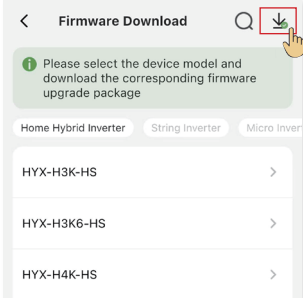
Step 3: On the upgrade package download page, you can also click the search button at the top to search for the target upgrade package by name.

Step 4: On the Downloaded upgrade list page in the upper right corner, the downloaded upgrade package list is displayed. Click the Delete button at the bottom to delete unwanted upgrade packages.
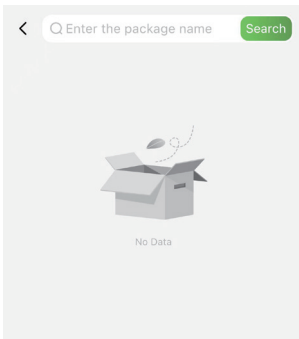
When there is no network at the customer site, the installation personnel can initiate device commissioning, configuration, and upgrade through the WiFi connection of the device.

3.3.1 Local Login

Function introduction

Select WiFi to connect to the device and log in to the home page of the local device.

Preconditions

- WiFi is automatically turned on after the communication device is powered on, and automatically turned off after 5 minutes. The ways to turn WiFi on again include: power on it again or press the RST key three times;
- Through the mobile phone Settings - wireless LAN - connect to the WiFi issued by the corresponding communication device, in this process, please open the mobile phone positioning.

Operation procedure

Step 1: Open the mobile APP and select more on the login page for local debugging.
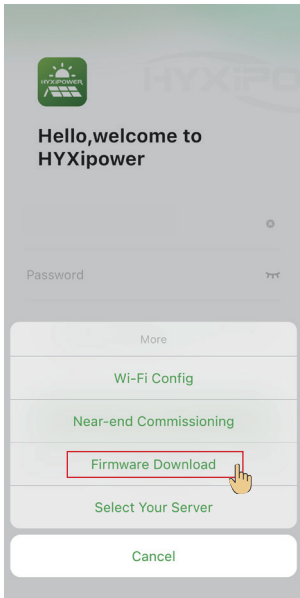
Step 2: When the user's mobile phone is connected to the Internet, the system automatically determines whether the latest grid-connected protection file and device upgrade package file need to be downloaded. After the download is complete, the device WiFi selection page can be displayed.

Step 3: In the wireless area of the mobile phone, locate the WiFi hotspot in the format of DMU-XXXXXXXXXXXXXX, DCS-XXXXXXXXXXXXXX, or MI-XXXXXXXXXXXXXX, and enter the WiFi password for connection. The password is 12345678.(Password cannot be changed, do not disclose).

Step 4: After the WiFi connection is successful, the current connected WiFi will be displayed automatically. Click Next to enter the debugging home page.

3.3.2 Local Home Page

Function introduction

Debug the entrance of each function menu in the local, and display the key indicators of the connected communication equipment, such as SN and signal strength;

Preconditions

The communication device has been connected through WiFi, and the local home page is displayed.

Operation procedure

Step 1: The SN and signal strength of the connected communication device are displayed at the top of the debugging home page.
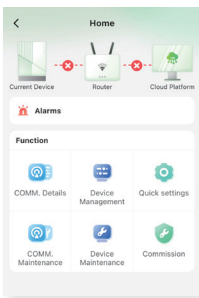
Step 2: The home page displays the portals for alarm, communication details, communication maintenance, device management, device maintenance, quick setting, and detailed commissioning. For details, see the following.

3.3.3 Current Alarm
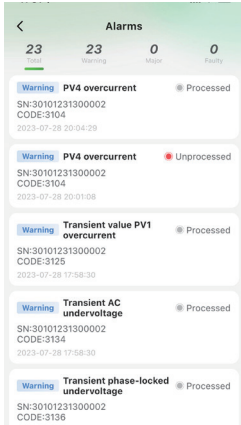
Function introduction

Current alarm, you can view the current alarm data of the device.

Preconditions

The communication device has been connected through WiFi, and the local home page is displayed.

Operation procedure

Click the current alarm to display the alarm list, including alarm level, alarm name, alarm status, device SN, alarm time, etc.

3.3.4 Communication Details
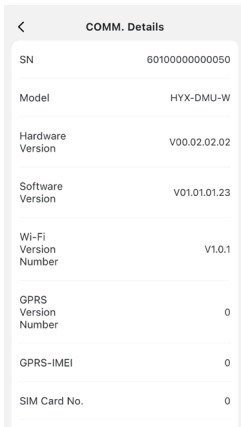
Function introduction

For communication details, you can view basic information about communication devices.

Preconditions

The communication device has been connected through WiFi, and the local home page is displayed.

Operation procedure

Click the communication details page. Basic information such as SN, software version, hardware version, model, and data upload interval is displayed.

3.3.5 Communication Maintenance

Function introduction

Communication maintenance: You can control communication devices, including restarting, clearing alarms, upgrading devices, restoring default Settings, and anti-reflux Settings.

Preconditions

The communication device has been connected through WiFi, and the local home page is displayed.

Operation procedure
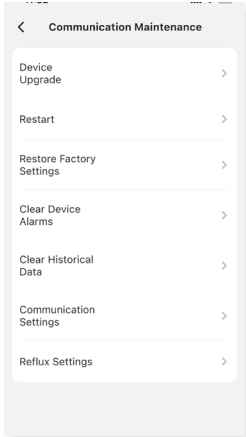
Step 1: Tap Restart to shut down and restart the device.

Step 2: Click Restore Default Settings to restore all device Settings to the original factory Settings.

Step 3: Click Clear. The real-time alarm data on the device is cleared.

Step 4: Click Clear historical data to clear all historical data on the device.

Step 5: Click Communication Settings to select the domain name and port for the communication device to connect to the cloud server.
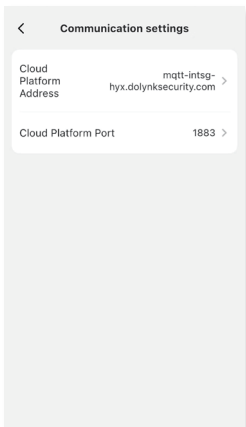
Step 6: Click Anti-reflux Settings and select whether to enable anti-reflux Settings. If this function is disabled by default, configure the maximum power, power grid type, and control mode that can be connected to the grid. Click OK.

Device upgrade procedure:

Step 1: Click Upgrade. Select the desired firmware upgrade package and click the upgrade button.

Step 2: Do not perform other operations because the upgrade process takes a long time. During the upgrade process, you can view the overall upgrade progress and the transmission and upgrade progress of each chip.
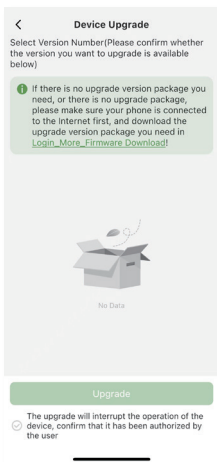
Step 3: If the upgrade succeeds, a message is displayed. If the upgrade fails or times out, a message is displayed indicating possible causes and you can upgrade the system again.

3.3.6 Device Management

Function introduction

Device management allows you to view the basic information and real-time data of inverters on communication devices.

Preconditions

The communication device has been connected through WiFi, and the local home page is displayed.

Operation procedure

Step 1: Click Device Management on the local home page. The device list is displayed, including the device type, SN, Offline status, real-time power, and current energy yield.
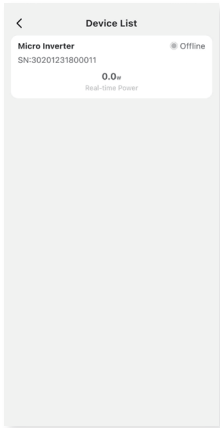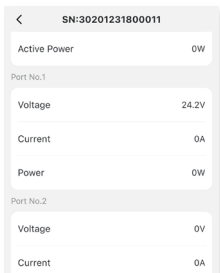
Step 2: Click the item in the device list. The device details page displays basic information, such as hardware version and model, and real-time data, such as voltage, current, and power.

Basic information:
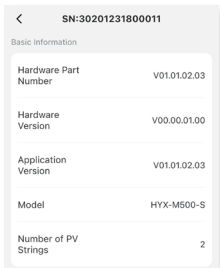
Real-time data:
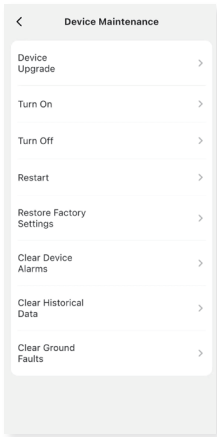
3.3.7 Device Maintenance

Function introduction

You can maintain devices individually or in batches. You can manage sub-devices, power on, power off, restart, upgrade, and restore default Settings.

Preconditions

Select the communication device through WiFi and click the local home page_Device Maintenance.

Operation procedure

Step 1: The device selection page is displayed. The device type, SN, and Offline status are listed. Click the Maintenance button to display sub-device management, power on, power off, restart, upgrade, and restore default Settings.

Step 2: Tap the inverter to start the device and switch the device from the stopped state to the started state.

Step 3: Tap the inverter Shutdown button to switch the device from the running state to shut down.

Step 4: Tap Restart to shut down and restart the device.

Step 5: Click Restore Default Settings to restore all device Settings to the original factory Settings.

Step 6: Click Clear. The real-time alarm data on the device is cleared.

Step 7: Click Clear historical data to clear all historical data on the device.

Step 8: Click Clear. The alarm status of the inverter grounding fault is cleared.

Step 9: Click Subdevice Management to display the list of subdevices connected to the inverter, including SN and status.(Sub-devices include electricity meters, optimizers, batteries, etc).

Step 10: Click Upgrade. Select the desired firmware version and click Upgrade.For details, see 3.3.5. Communication Control_Device Upgrade Procedure.

3.3.8 Quick Settings

Function introduction

Quick Settings enable quick deployment of inverter devices, including power grid standard code Settings, device management, device configuration, and communication configuration.

Preconditions

Connected to the communication device through WiFi, click to enter the local home page_Quick Settings page;

Operation procedure

Step 1: Basic Settings: Set the device time zone, select the power grid standard code based on local policies and regulations, and select the protection file based on the power grid standard code, international region, and file version. The parameters and Settings in the file are displayed.
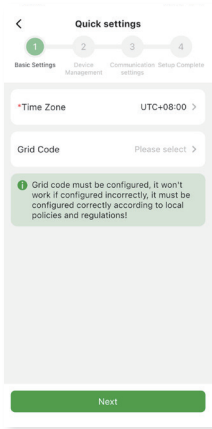
Step 2: Device management: View the currently connected communication devices and connected inverters. For DMU, manually add or scan the SN of the microinverters for device networking.If the network fails, either re-network or delete the inverter. For an electric meter, you need to set the installation position, SN, and meter ratio parameters.
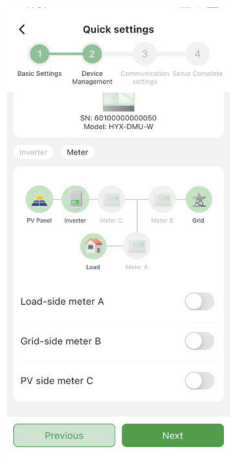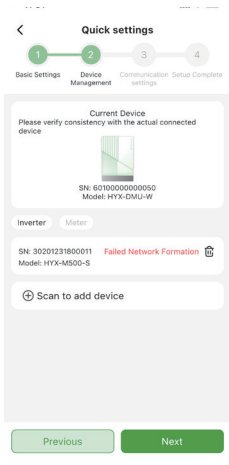
Step 3: Device Settings: For the Hybrid inverter, this step is displayed, or you can skip this step.

The specific operation process is as follows

Step 1: Click the setting button of powerplant_Device_details, select the grid-connected working status setting, add different periods (such as Monday and Tuesday), and configure the working mode in different periods within the cycle, including spontaneous self-use, green power backup, power grid backup, and forced feeding.If the time range is not specified, it is automatically used by default.
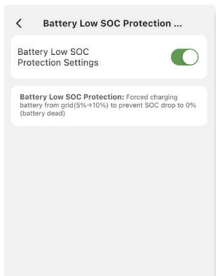
Step 2: Select mode Settings and set the minimum SOC threshold for different working modes.
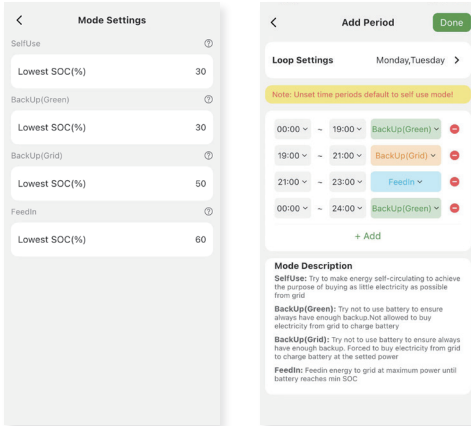
Step 3: Select off-grid working status Settings and set the minimum SOC threshold during off-grid mode execution.
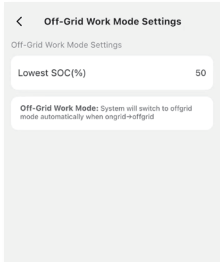
Step 4: Select the battery loss protection Settings and configure whether to enable the battery loss protection. By default, it is enabled.
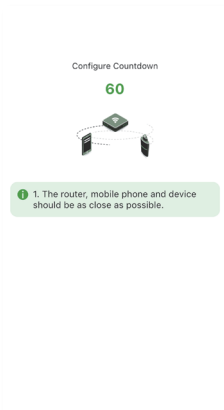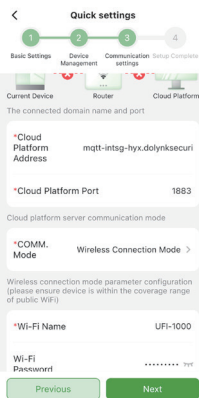
Step 5: Select Battery type Settings. You can select the correct configuration item for lithium-ion, lead-acid, and no-battery.

Step 6: Communication Settings:

Display the communication status between the current communication device to the router or base station to the cloud platform; Enter the domain name, port, communication mode, and configuration parameters of the corresponding communication mode to connect to the cloud platform server as required, and initiate networking configuration.

Parameter Name	Operation Instruction
Cloud platform address	The default domain name is www.hyxicloud.com.Can be changed to other addresses.
Cloud platform port	The default port is 1883.
Communication mode selection	Choose between wireless connection mode and wired connection mode. According to the type of the current connected device, the corresponding WiFi or 4G configuration is displayed respectively, whether the wired configuration is supported.
Wireless connection mode parameter configuration (WiFi configuration)	Enter the name of the environment WiFi and enter the password of the corresponding WiFi.
Wireless connection Mode Parameter configuration (4G configuration)	For non-China operators, enter the operator Settings, operator name, operator password as required.
Set cable connection mode parameters	The default mode is DHCP, that is, the IP address is automatically obtained. The MAC address and IP address are automatically displayed. If you choose not to automatically obtain IP address, enter the network IP address, network cable subnet mask, network cable default gateway, and network cable DNS.

Step 5: Complete the Settings: Check the complete status of each step of the quick Settings

Grid standard code display, whether the setting is successful;

The number of connected inverters and whether the addition is successful;

The number of connected meters, whether the addition is successful;

Whether the setting of energy storage working mode is successful;

Communication configuration: If the configuration is successful, the network connection status is displayed. A message indicating possible causes for the failure is displayed. Click the back button to reconfigure the communication.
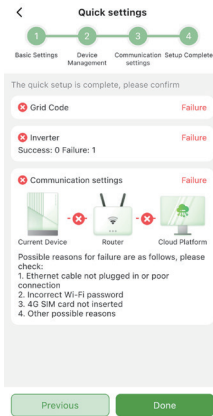
3.3.9 Debugging in Detail

Function introduction

Detailed debugging can realize the adjustment of various parameters in the grid-connected protection file.

Preconditions

The communication device has been connected through WiFi, and click to enter the local home page_Detailed debugging page.

Operation procedure

Step 1: You can refer to Step 1 in 3.3.8 to select the power grid standard code again.

Step 2: If you need to modify a parameter setting in the grid-connected protection file, search for the corresponding parameter according to the classification of grid parameters, power regulation parameters, protection parameters, and feature parameters, click parameter, modify the parameter within the required range, and click OK to complete the redelivery of the parameter.

4 Contact Us

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