

Wi-Fi Module and WatchPower Apps User Manual

Home » APPs » Wi-Fi Module and WatchPower Apps User Manual The



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Contents

- 1 1. Introduction
- 2 2. Unpack and Overview
 - 2.1 2.1 Packing list
 - 2.2 2.2 Product overview
- 3 3. Wi-Fi Module Installation
- 4 4. WatchPower App
 - 4.1 4-1 Download and install APP
 - 4.2 4-2 Initial Setup
 - 4.3 4.3 Login and APP Main

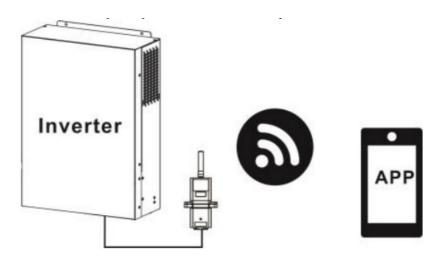
Function

- 4.4 4.4 Device List
- 5 Documents / Resources
- **6 Related Posts**

1. Introduction

Wi-Fi module can enable wireless communication between off-grid inverters and monitoring platform. Users have complete and remote monitoring and controlling experience for inverters when combining WiFi module with WatchPower APP, available for both iOS and Android based device. All data loggers and parameters are saved in iCloud. The major functions of this APP:

- Delivers device status during normal operation.
- Allows to configure device setting after installation.
- Notifies users when a warning or alarm occurs.
- · Allows users to query inverter history data.

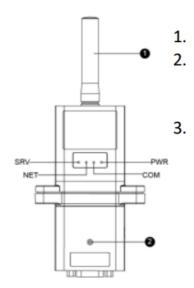


2. Unpack and Overview

2.1 Packing list

Before installation, please inspect the unit. Be sure that nothing inside the package is damaged. You should have received the following items inside of package:

- Wi-Fi Module x 1
- User's Manual x 1



- 1. Antenna
- 2. Inverter connection status LED

OFF: Inverter does not provide power to Wi-Fi module.

ON: Inverter provides power to Wi-Fi module successfully.

3. PWR: To indicate if the power is on.

COM: To indicate if communication between Wi-Fi module and Inverter is normal.

NET: To indicate if Wi-Fi module is connected to router.

SRV: To indicate if Wi-Fi module is connected to the internet.

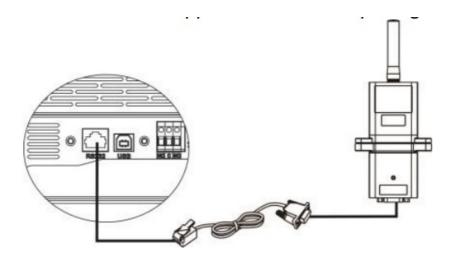
3. Wi-Fi Module Installation

Please follow below steps to install Wi-Fi module:

Step 1: The module contains four strong magnetics backing and can be easily be placed on the side of the inverter.

Step 2: Please use one RS-232 communication cable* to connect an inverter and Wi-Fi module as below chart.

* This communication cable is supplied with inverter package.



4. WatchPower App

Operating system requirement for your smart phone:



iOS system supports iOS 9.0 and above



Android system supports Android 5.0 and above

Please scan the following QR code with your smart phone and download WatchPower App.



https://play.google.com/store/apps/details? id=wifiapp.volfw.watchpower



iOS system

https://apps.apple.com/us/app/id1487569321

Or you may find "WatchPower" app from the Apple® Store or "WatchPower Wi-Fi" in Google® Play Store.

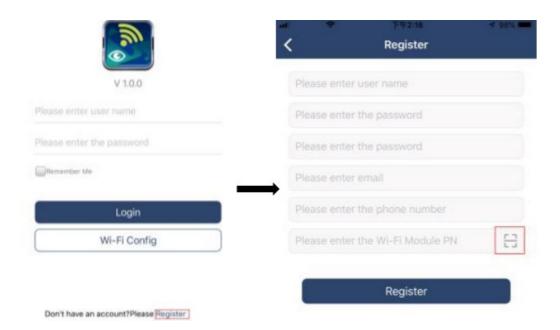


4-2 Initial Setup

Step 1: Registration at first time

After the installation, please tap the shortcut icon to access this APP on your mobile screen. In the screen, tap "Register" to access "User Registration" page. Fill in all required information and scan the Wi-Fi

Module PN by tapping icon. Or you can simply enter Wi-Fi Module PN directly. Then, tap "Register" button.

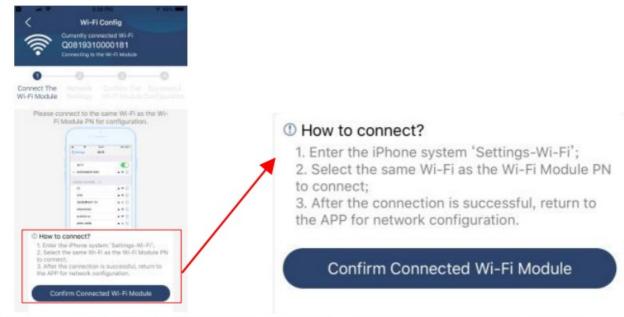


Then, a "Registration success" window will pop up. Tap "Go now" to continue setting local Wi-Fi network connection.

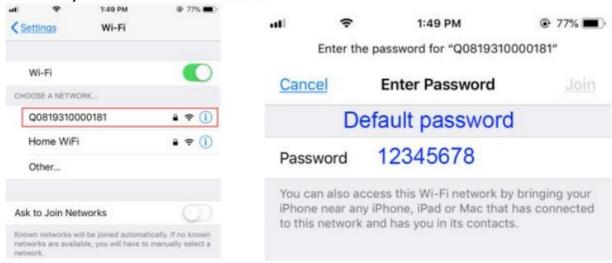


Step 2: Local Wi-Fi Module Configuration

Now, you are in "Wi-Fi Config" page. There are detailed setup procedure listed in "How to connect?" section and you may follow it to connect WiFi.



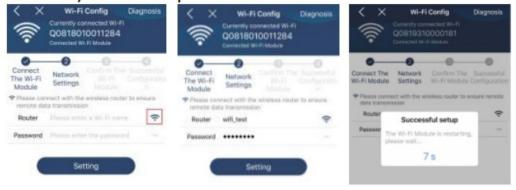
Enter the "Settings→Wi-Fi" and select connected Wi-Fi name. The connected Wi-Fi name is the same to your Wi-Fi PN number and enter default password "12345678".



Then, return to WatchPower APP and tap "Confirm Connected Wi-Fi Module "button when Wi-Fi module is connected successfully.

Step 3: Wi-Fi Network settings

Tap icon to select your local Wi-Fi router name (to access the internet) and enter password.



Step 4: Tap "Confirm" to complete the Wi-Fi configuration between the Wi-Fi module and the Internet.

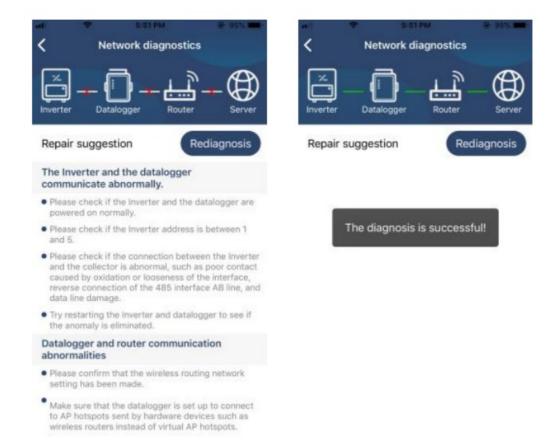


If the connection fails, please repeat Step 2 and 3.



Diagnose Function

If the module is not monitoring properly, please tap "**Diagnose**" on the top right corner of the screen for further details. It will show repair suggestion. Please follow it to fix the problem. Then, repeat the steps in the chapter 4.2 to re-set network setting. After all setting, tap "Rediagnosis" to re-connect again.



4.3 Login and APP Main Function

After finishing the registration and local Wi-Fi configuration, enter registered name and password to login. Note: Tick "Remember Me" for your login convenience afterwards.



Overview

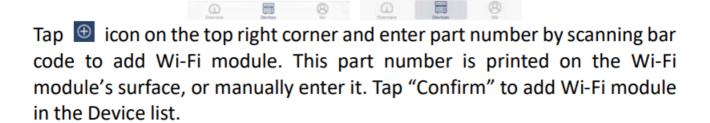
After login is successfully, you can access "Overview" page to have overview of your monitoring devices, including overall operation situation and Energy information for Current power and Today power as below diagram.

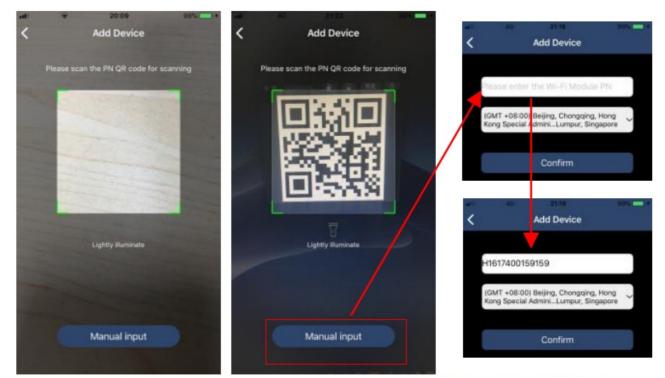


Devices

Tap the icon (located on the bottom) to enter Device List page. You can review all devices here by adding or deleting Wi-Fi Module in this page.

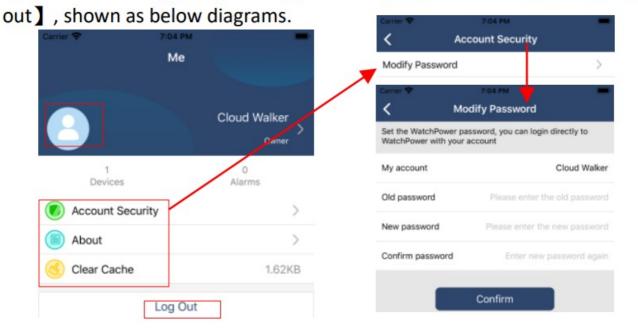






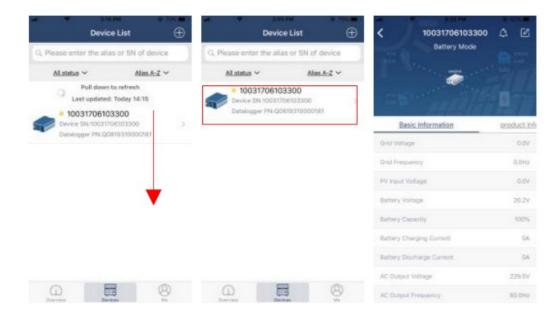
For more information about Device List, please refer to the section 4.4. ME

In ME page, users can modify "My information", including [User's Photo], [Account security], [Modify password], [Clear cache], and [Log-



4.4 Device List

In Device List page, you can pull down to refresh the device information and then tap any device you want to check up for its real-time status and related information as well as to change parameter settings. Please refer to the parameter setting list.



Device Mode

On the top of screen, there is a dynamic power flow chart to show live operation. It contains five icons to present PV power, inverter, load, utility and battery. Based on your inverter model status, there will be Standby Mode, Line Mode, Battery Mode.

[Standby Mode] Inverter will not power the load until "ON" switch is pressed. Qualified utility or PV source can charge battery in standby mode.



[Line Mode] Inverter will power the load from the utility with or without PV charging. Qualified utility or PV source can charge battery.

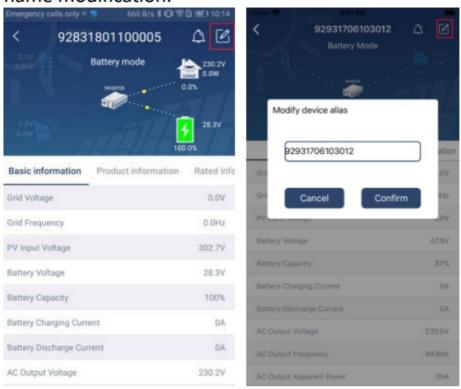


[Battery Mode] Inverter will power the load from the batter with or without PV charging. Only PV source can charge battery.



In this page, tap the icon on the top right corner to enter the device alarm page. Then, you can review alarm history and detailed information.

Tap the icon on the top right corner, a blank input box will pop out. Then, you can edit the name for your device and tap "Confirm" to complete name modification.



Device Information Data

Users can check up Basic Information, Product Information, Rated information, History, and Wi-Fi Module Information by swiping left.



Basic Information displays basic information of the inverter, including AC voltage, AC frequency, PV input voltage, Battery voltage, Battery capacity, Charging current, Output voltage, Output frequency, Output apparent power, Output active power and Load percent. Please slide up to see more basic information.

Production Information displays Model type (Inverter type), Main CPU version, Bluetooth CPU version and secondary CPU version.

Rated Information displays information of Nominal AC voltage, Nominal AC current, Rated battery voltage, Nominal output voltage, Nominal output frequency, Nominal output current, Nominal output apparent power and Nominal output active power. Please slide up to see more rated information.

History displays the record of unit information and setting timely.

Wi-Fi Module Information displays of Wi-Fi Module PN, status and firmware version.

Parameter Setting This page is to activate some features and set up parameters for inverters. Please be noted that the listing in "Parameter Setting" page in below diagram may differ from the models of monitored inverter. Here will briefly highlight some of it, Output Setting, Battery Parameter Setting, Enable/ Disable items, Restore to the defaults to illustrate.



There are three ways to modify setting and they vary according to each parameter.

- a) Listing options to change values by tapping one of it.
- b) Activate/Shut down functions by clicking "Enable" or "Disable" button.
- c) Changing values by clicking arrows or entering the numbers directly in the column. Each function setting is saved by clicking "Set" button.

Please refer to below parameter setting list for an overall description and be noted that the available parameters may vary depending on different models. Please always see the original product manual for detailed setting instructions.

Parameter setting list:

Item		Description
Output setting	Output source priority	To configure load power source priority.
	AC input range	When selecting "UPS", it's allowed to
		connect personal computer.
		Please check product manual for
		details.
		When selecting "Appliance", it's
		allowed to connect home appliances.
	Output voltage	To set output voltage.
	Output frequency	To set output frequency.
Battery	Battery type:	To set connected battery type.
parameter	Battery cut-off	To set the battery stop discharging
setting	voltage	voltage.
		Please see product manual for the
		recommended voltage range based on
		connected battery type.
	Back to grid voltage	When "SBU" or "SOL" is set as output
		source priority and battery voltage is
		lower than this setting voltage, unit will
		transfer to line mode and the grid will
		provide power to load.
	Back to discharge	When "SBU" or "SOL" is set as output
	voltage	source priority and battery voltage is
		higher than this setting voltage, battery
		will be allowed to discharge.
	Charger source	To configure charger source priority.
	priority:	
	Max. charging current	It's to set up battery charging parameters. The selectable values in different inverter model may vary. Please see product manual for the
	Max. AC charging	
	current:	
	Float charging	details.
	voltage	

	Bulk charging voltage	It's to set up battery charging parameters. The selectable values in different inverter model may vary. Please see product manual for the details.
	Battery	Enable or disable battery equalization
	equalization	function.
	Real-time Activate	It's real-time action to activate battery
Battery	Battery	equalization.
parameter	Equalization	
setting	Equalized Time Out	To set up the duration time for battery
		equalization.
	Equalized Time	To set up the extended time to continue
		battery equalization.
	Equalization Period	To set up the frequency for battery
		equalization.
	Equalization	To set up the battery equalization
	Voltage	voltage.
Enable/Disable	LCD Auto-return to	If enable, LCD screen will return to its
Functions	Main screen	main screen after one minute
		automatically.
	Fault Code Record	If enabled, fault code will be recorded
		in the inverter when any fault happens.
	Backlight	If disabled, LCD backlight will be off
		when panel button is not operated for 1
		minute.
	Bypass Function	If enabled, unit will transfer to line
		mode when overload happened in
	Deenershile	battery mode.
	Beeps while	If enabled, buzzer will alarm when
	primary source	primary source is abnormal.
	interrupt	If disabled the unit wen't be restarted
	Over Temperature Auto Restart	If disabled, the unit won't be restarted
	Overload Auto	after over-temperature fault is solved.
	Restart	If disabled, the unit won't be restarted after overload occurs.
	Buzzer	If disabled, buzzer won't be on when
	Duzzei	alarm/fault occurred.
Restore to the	This function is to resto	re all settings back to default settings.
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