Wi-Fi Smart Card and SolarPower App User's Manual

Version1.0

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## 1. Introduction

Wi-Fi Smart Card can enable wireless communication between inverter and monitoring platform. Users have complete and remote monitoring and controlling experience for inverter when combining Wi-Fi Smart Card with SolarPower APP, available for both iOS and Android based device.

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.

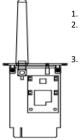


# 2. Unpack and Overview

# 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 Smart Card x 1
- User's Manual x 1



- Antenna
- . Inverter connection status LED

OFF: Inverter does not provide power to Wi-Fi Smart Card. ON: Inverter provides power to Wi-Fi Smart Card successfully. PWR: To indicate if the power is on.

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

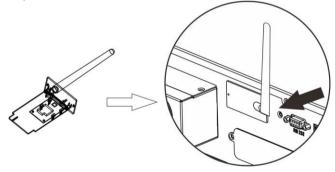
NET: To indicate if Wi-Fi Smart Card is connected to router. SRV: To indicate if Wi-Fi Smart Card is connected to the internet.

## 3. Wi-Fi Smart Card Installation

Please follow below steps to install Wi-Fi Smart Card:

Step 1: Remove the cover of the intelligent slot.

Step 2: Insert the Wi-Fi smart card into the slot.



## 4. SolarPower App

4-1 Download and install 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 SolarPower App.





iOS system

Or you may find "SolarPower Wi-Fi" app from the Apple<sup>®</sup> Store or "SolarPower" in Google<sup>®</sup> Play Store.



4-2 Initial Setup

## Step 1: Registration at first time

After the installation, please tap the shortcut icon with 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

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

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		an 🤏	T € 218 Register	⊀ 98%
¥1.0.13		Please en	iter user name	
Please enter user nar	ne			
Please enter the pass	sword	Diases on		
Pernember Me		Picase on		
Login		Please en	iter email	
Wi-Fi Con	fig		iter the phone number	
		Please en	iter the WI-Fi Module PN	E
		(	Register	
Do not have an account	1Please Register		Register	

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

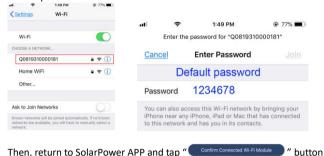
Is the Wi-Fi networ device (PN:W0	on success k configured for this 819531053833) diately?
Log in	Go now

## Step 2: Local Wi-Fi Network 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 Wi-



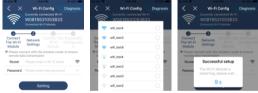
Enter the "Settings → Wi-Fi" and select connected Wi-Fi name. The connected Wi-Fi name is the same to your Wi-Fi PN number and enter default password "12345678".



Then, return to SolarPower APP and tap " when Wi-Fi Model 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 Smart Card and the Internet.



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



## Step 5: Diagnose Function

If the module is not monitoring properly, please tap "Diagnosis" 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.



#### 5. SolarPower APP Operation

#### 5-1. Overview

After login is successfully, you can access "Overview" page to have overview of your monitoring devices, including operation status (normal, offline, alarm, and fault) as below diagram.

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Devices			
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0			
Overview	Devices		As .

#### 5-2. Devices

Tap the icon 📖, you can enter Device List page. You can review all of the devices in "Device List". You also can add or delete Wi-Fi Smart Card in this page.

Add o		e	Delete d		-
Carrier III - 51 Pr Device		Ð	ente Device I		
Q. Please enter the alias or	SN of device		Q. Please enter the stars of	r an of device	
All status 🗸	Alias A-2	~	Al status~	Alles A-2	
• 5535553555355 Device SN:563656355 WI-FI Module PN:W0818	3535		w08195305818370F0101 Device 3N W08195305618370F0101 W FI MUALIE PRUM0119520561837		Delete
			S535555355 Device DV WORTHS W-F1 Module PROF	010338330F0101	>



Tap 🕒 icon on the top right corner and enter part number by scanning bar code to add Wi-Fi Smart Card. This part number is printed on the Wi-Fi Smart Card surface, or manually enter it. Tap "Confirm" to add Wi-Fi Smart Card in the Device list.



## 5-3. ME

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

as below diagrams.

ciow alagranis			Carner 👾	7:04 PM
Carrier 🗢	1:50 PM		<	Account Security
	Me		Modify Passwo	vrd >
	Cloud	<b>&gt;</b>	Carrier 🗢	7.04 PM
		Owner	<	Modify Password
1 Devices	0 Alarm:	s	Set the WatchPow WatchPower with	ver password, you can login directly to your account
Account Security	Y	>	My account	Cloud Walke
About		>	Old password	Please enter the old password
Clear Cache		OB	New password	Please enter the new password
			Confirm passwor	d Enter new password again
L	.og Out			Confirm

## 5-4. 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.

938 C	도 후 교 Device List	. CB	Conter 10 Internet In	st	Ð	< 553	5535553555	
Q. Please etter It	a alias or an of device		Q Please enter the alias or St	I of device		- 10 C		230 TV
All Mature	Allas A-Z -		All status 🗸	Alias A-Z 🗸	_			
	efreshing We 2003-02-05 19:38		• 653565356535635535 Device SN:56356535635 Wi-FI Module PN:WD81963 Wi-FI Module PN:WD81963		>	1216		12.14
	81953 N Walf 95310538230F0101					Basic Information	Product Information	n Rated Int
	dale P1 (W0810531053833					Grid Voltage	-	0.07
						Grid Frequency		0.0112
						PV1 Input Voltage		0.01
						PV2 Isput Voltage		0.07
	<b>*</b>					PV1 Input Power		0W
						PV2 Input Power		099
						Battery Voltage		12.19
						Battery Capacity		70%
						Battery Charging Ca	rest	. 84
	_					Battery Discharge O	arrent	0.6
Charter	Dentas M	9		8		AC Output Voltagee		230.1V

## 5-5. Monitoring Information and Parameter Setting

## 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 status, there will be [Standby Mode], [Line Mode] and [Battery Mode].

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



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



**[Battery Mode]** Inverter will power the load from the battery with or without PV power. Only PV power can charge battery at this mode.



## **Device Alarm and Name Modification**

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.

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

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< 55355535553555	AL	< \$535553555	
Battery mode	230.1V 0.0%	Battery m	
Basic Information Product Informati	12.1V 7010%	ast out	NOV NOV
Basic Information Product Informati	on Rated Info	Modify device alias	
Grid voltage	0.0V	55355535553555	
Grid Frequency	0.0Hz		
PV1 Input Voltage	0.0V	Concernant P	Confirm
PV2 input Voltage	0.0V	Cancel	Confirm
PV1 Input Power	OW	Constantion and and and and and and and and and an	
PV2 Input Power	ow	Picz Input Power	
Battery Voltage	12.1V	Bettery Voltage	
Battery Capacity	70%	Валону Сараслу	
Battery Charging Current	DA	Battery Charging Current	
Battery Discharge Current	0A.	Buttery Macharge Current	
AC Output Voltagee	230.1V	AC Output Voltages	

## **Device Information Data**

Users can check up [Basic Information], [Product Information], [Rated information], [History] and [Wi-Fi Smart Card 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, Discharging 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 records of unit information and setting.

**[Wi-Fi Smart Card Information]** displays of Wi-Fi Smart Card 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 inverters. Here is briefly illustrate partial setting: [Output Setting], [Battery Parameter Setting],

[Enable/ Disable items], [Others Settings], [Restore to the defaults] Please refer to product manual when necessary.



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:

Falameter sett	ing list.		
Item		Description	
	Output Source Priority	Output source priority selection	
	Input Voltage Range	Input voltage range selection	
Output Setting	AC Output Rating Voltage	To set output rating voltage	
	AC Output Rating Frequency	To set output rating frequency	
	Battery Type	Select connected battery type	
	Battery Cut-off Voltage	Set battery cut-off voltage	
	Bulk Charging Voltage	Set battery bulk charging voltage	
	Battery Float Voltage	Set battery floating charging voltage	
<b>D</b> 11	Max Charging Current	To configure total charging current for solar and utility chargers.	
Battery Parameters Setting	Max AC Charging Current	Set maximum utility charging current	
octaing	Charging Source Priority	To configure charger source priority	
	Back To Grid Voltage	Set battery voltage to stop discharging when grid is available	
	Back To Discharge Voltage	Set battery voltage to stop charging when grid is available	

Item		Description
	Overload Auto Restart	If disabled, the unit won't be restarted after overload occurs.
	Overload Temperature	If disabled, the unit won't be restarted
	Auto Restart	after over-temperature fault is solved.
	Overload Bypass	If enabled, the unit will enter bypass mode when overload occurs.
	Beeps While Primary	If enabled, buzzer will alarm when
	Source Interrupt	primary source is abnormal.
	Buzzer	If disabled, buzzer won't be on when
Enable/Disable		alarm/fault occurred.
Items	Backlight	If disabled, LCD backlight will be off when panel button is not operated for
		1 minute.
	LCD Screen Return To	If selected, no matter how users switch
	Default Display	display screen, it will automatically
		return to default display screen (Input
		voltage /output voltage) after no
		button is pressed for 1 minute.
	Fault Code Record	If enabled, fault code will be recorded
		in the inverter when any fault
		happens.
	Solar Supply Priority	Set solar power as priority to charge
		the battery or to power the load.
	Reset PV Energy	If clicked, PV energy storage data will
	Storage	be reset.
	Start Time For Enable	The setting range of start charging
	AC Charge Working	time for AC charger is from 00:00 to
		23:00. The increment of each click is 1
Others Settings		hour.
	Ending Time For	The setting range of stop charging time
	Enable AC Charge	for AC charger is from 00:00 to 23:00. The increment of each click is 1 hour.
	Working Scheduled Time For	
		The setting range of scheduled time for AC output on is from 00:00 to
	AC Output On	23:00. The increment of each click is 1
		hour.

Item		Description	
Others Settings	Scheduled Time For AC Output Off	The setting range of scheduled time for AC output off is from 00:00 to 23:00. The increment of each click is 1 hour.	
	Country Customized Regulations Set Date Time	Select inverter installed area to meet local regulation. Set date time.	
Restore to the defaults	This function is to restore all settings back to default settings.		