

WIFI Monitoring System

Sinexcel Electric

Shenzhen·China

Grid Voltage

RMS(V)	0.0	0.0	0.0
Fre.(Hz)	0.0	0.0	0.0
THDU(%)	0.0	0.0	0.0

Grid Current

RMS(A)	0.0	0.0	0.0
PF	0.000	0.000	0.000
THDI(%)	0.0	0.0	0.0

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WiFi display - Basic



WiFi Interface

When use the WiFi module to control the AHF/SVG/ASVG, customers only need to link the WiFi generated by WiFi module. Then after that customers can use this to control the module, view many kind of data and change the parameters of AHF/SVG/ASVG.

Grid Voltage			
RMS(V)	0.0	0.0	0.0
Fre.(Hz)	0.0	0.0	0.0
THDU(%)	0.0	0.0	0.0

Grid Current			
RMS(A)	0.0	0.0	0.0
PF	0.000	0.000	0.000
THDI(%)	0.0	0.0	0.0

Page Down

WiFi display - Basic



WiFi Interface

On the interface, it include 6 options:

- **Basic**
- **Power Info**
- **I/O**
- **Settings**
- **Alarm**
- **About**

Grid Voltage			
RMS(V)	0.0	0.0	0.0
Fre.(Hz)	0.0	0.0	0.0
THDU(%)	0.0	0.0	0.0

Grid Current			
RMS(A)	0.0	0.0	0.0
PF	0.000	0.000	0.000
THDI(%)	0.0	0.0	0.0

Page Down

WiFi display - Basic



Basic

On the basic interface, it shows the information of grid side, load side and compensation current.

Grid Voltage/ Current: Before compensation

Load Current: After compensation

RMS: Effective value of current

Fre.: Frequency

PF: power factor

THDi: total harmonic distortion

Load rate: Ratio of Comp power to rated power

Load Current			
RMS(A)	0.0	0.0	0.0
PF	0.000	0.000	0.000
THDI(%)	0.0	0.0	0.0

Comp. Current			
RMS(A)	0.0	0.0	0.0
Load Rate(%)	0.0	0.0	0.0

Page Up

WiFi display - Basic



Basic

On the basic interface, it shows the information of grid side, load side and compensation current.

Grid Voltage/ Current: Before compensation

Load Current: After compensation

RMS: Effective value of current

Fre.: Frequency

PF: power factor

THDi: total harmonic distortion

Load rate: Ratio of Comp power to rated power

Commen

Device Address	<input type="text" value="1"/>
Power ON/OFF	<input type="button" value="PowerOFF"/> ▼
One/Three phase	<input type="button" value="ThreePhase"/> ▼
Comp. Rate	<input type="text" value="0.0"/>
Target Power Factor	<input type="text" value="0.0"/>
Operation Mode	<input type="text" value="0"/>
Quantity	<input type="text" value="0"/>
Total Capacity	<input type="text" value="0.0"/>

CT Location	<input type="text" value="0"/>
Power ON Mode	<input type="button" value="Automatic"/> ▼
CT Ratio	<input type="text" value="0.0"/>
Comp. Mode	<input type="text" value="0"/>
ConstantReactive	<input type="text" value="0.0"/>
GridVoltageAdjust	<input type="button" value="Disable"/> ▼
Target Vol.	<input type="text" value="0.0"/>
Vol. regulate upper	<input type="text" value="0.0"/>
Vol. regulate lower	<input type="text" value="0.0"/>
RP Tracking Ctrl Val.	<input type="text" value="0.0"/>

Angle Biasing

1 #	<input type="text" value="0.0"/>
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WiFi display – Setting



Setting Interface

On the setting interface, users can change the parameters on this to change the working state of the product. It mainly include:

Commen setting

Angle Biasing setting

Harmonic setting

Power Saving Function

Commen

Device Address	<input type="text" value="1"/>
Power ON/OFF	<input type="button" value="PowerOFF"/>
One/Three phase	<input type="button" value="ThreePhase"/>
Comp. Rate	<input type="text" value="0.0"/>
Target Power Factor	<input type="text" value="0.0"/>
Operation Mode	<input type="text" value="0"/>
Quantity	<input type="text" value="0"/>
Total Capacity	<input type="text" value="0.0"/>

CT Location	<input type="text" value="0"/>
Power ON Mode	<input type="button" value="Automatic"/>
CT Ratio	<input type="text" value="0.0"/>
Comp. Mode	<input type="text" value="0"/>
ConstantReactive	<input type="text" value="0.0"/>
GridVoltageAdjust	<input type="button" value="Disable"/>
Target Vol.	<input type="text" value="0.0"/>
Vol. regulate upper	<input type="text" value="0.0"/>
Vol. regulate lower	<input type="text" value="0.0"/>
RP Tracking Ctrl Val.	<input type="text" value="0.0"/>

Angle Biasing

1 #	<input type="text" value="0.0"/>
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WiFi display – Setting



Setting Interface-Commen

Device Address:

Set the device address to connect the software to the device, normally set it 1.

Power ON/OFF

Used to control the device on and off.

One/Three phase

Choose the correspond phase, if the device is single phase product, choose one, otherwise choose three phase.

Target Power Factor

When use reactive power compensation, it can work, set the target value of PF.

Commen

Device Address	<input type="text" value="1"/>
Power ON/OFF	<input type="button" value="PowerOFF"/> ▼
One/Three phase	<input type="button" value="ThreePhase"/> ▼
Comp. Rate	<input type="text" value="0.0"/>
Target Power Factor	<input type="text" value="0.0"/>
Operation Mode	<input type="text" value="0"/>
Quantity	<input type="text" value="0"/>
Total Capacity	<input type="text" value="0.0"/>

CT Location	<input type="text" value="0"/>
Power ON Mode	<input type="button" value="Automatic"/> ▼
CT Ratio	<input type="text" value="0.0"/>
Comp. Mode	<input type="text" value="0"/>
ConstantReactive	<input type="text" value="0.0"/>
GridVoltageAdjust	<input type="button" value="Disable"/> ▼
Target Vol.	<input type="text" value="0.0"/>
Vol. regulate upper	<input type="text" value="0.0"/>
Vol. regulate lower	<input type="text" value="0.0"/>
RP Tracking Ctrl Val.	<input type="text" value="0.0"/>

Angle Biasing

1 #	<input type="text" value="0.0"/>
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WiFi display – Setting



Setting Interface-Commen

Operation Mode:

This function is important, cause no matter AHF, SVG, ASVG or SPC, we use the same interface, so we need to choose the correspond product and correspond function by filling some parameters in this blank.

Parameter		Description	
Comp. Mode:	0- Intelligent	1- Sequential	2- All
CT Location:	0- Supply	1- Load	
Operation mode			
APF:	0-H	1-H+Q	2-H+Q+B
	3-Auto-ageing	4-H+B+Q	5-H+B
	6-Q+H	7-Q+H+B	8-Q+B+H
	9-B+H	10-B+H+Q	11-B+Q+H
	ASVG: 3-Auto-ageing	6-Q+H	8-Q+B+H
SVG:	9-B+H	11-B+Q+H	
	1-Reactive	2-Q+B	3-Auto-ageing
	4-B+Q	5-B	12-ConstantReactive
Note:	H- Harmonic Comp.	Q- Reactive Comp.	B- Balancing Comp.

WiFi display – Setting



Setting Interface-Commen

Operation Mode:

Different products and functions need different code.

- H:** harmonic compensation
- Q:** reactive power compensation
- B:** Phase unbalanced compensation

H+Q: harmonic compensation firstly, then go to reactive power compensation.

Q+B+H: reactive power compensation first, then go to the phase unbalanced compensation, compensate the harmonic as last.

And so on.

Commen

Device Address	<input type="text" value="1"/>
Power ON/OFF	<input type="button" value="PowerOFF"/> ▼
One/Three phase	<input type="button" value="ThreePhase"/> ▼
Comp. Rate	<input type="text" value="0.0"/>
Target Power Factor	<input type="text" value="0.0"/>
Operation Mode	<input type="text" value="0"/>
Quantity	<input type="text" value="0"/>
Total Capacity	<input type="text" value="0.0"/>

CT Location	<input type="text" value="0"/>
Power ON Mode	<input type="button" value="Automatic"/> ▼
CT Ratio	<input type="text" value="0.0"/>
Comp. Mode	<input type="text" value="0"/>
ConstantReactive	<input type="text" value="0.0"/>
GridVoltageAdjust	<input type="button" value="Disable"/> ▼
Target Vol.	<input type="text" value="0.0"/>
Vol. regulate upper	<input type="text" value="0.0"/>
Vol. regulate lower	<input type="text" value="0.0"/>
RP Tracking Ctrl Val.	<input type="text" value="0.0"/>

Angle Biasing

1 #	<input type="text" value="0.0"/>
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WiFi display – Setting



Setting Interface-Commen

Quantity:

Input the quantity of modules controlled by the WiFi

Total Capacity:

Set individual compensation points total and machine capacity, that is, combining each single module system rated capacity.

CT location:

For SVG single module, it supplies both gird side and load side.

For others, it only can support the load side.

Noted: Detailed please refer last page.

Commen

Device Address	<input type="text" value="1"/>
Power ON/OFF	<input type="button" value="PowerOFF"/>
One/Three phase	<input type="button" value="ThreePhase"/>
Comp. Rate	<input type="text" value="0.0"/>
Target Power Factor	<input type="text" value="0.0"/>
Operation Mode	<input type="text" value="0"/>
Quantity	<input type="text" value="0"/>
Total Capacity	<input type="text" value="0.0"/>

CT Location	<input type="text" value="0"/>
Power ON Mode	<input type="button" value="Automatic"/>
CT Ratio	<input type="text" value="0.0"/>
Comp. Mode	<input type="text" value="0"/>
ConstantReactive	<input type="text" value="0.0"/>
GridVoltageAdjust	<input type="button" value="Disable"/>
Target Vol.	<input type="text" value="0.0"/>
Vol. regulate upper	<input type="text" value="0.0"/>
Vol. regulate lower	<input type="text" value="0.0"/>
RP Tracking Ctrl Val.	<input type="text" value="0.0"/>

Angle Biasing

1 #	<input type="text" value="0.0"/>
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Monitor

WiFi display – Setting



Setting Interface-Commen

Power On Model

In automatic mode , after the system is power on, the products will automatically start working. In the manual mode, it needs to be started by artificial execution in the monitoring interface.

CT ratio:

The setting value need to correspond to the actual changes of external CT. The setting range: 150~30000. (500 means 500:5 .)

Noted: The secondary side only can be 5.

Commen

Device Address	<input type="text" value="1"/>
Power ON/OFF	<input type="button" value="PowerOFF"/> ▼
One/Three phase	<input type="button" value="ThreePhase"/> ▼
Comp. Rate	<input type="text" value="0.0"/>
Target Power Factor	<input type="text" value="0.0"/>
Operation Mode	<input type="text" value="0"/>
Quantity	<input type="text" value="0"/>
Total Capacity	<input type="text" value="0.0"/>

CT Location	<input type="text" value="0"/>
Power ON Mode	<input type="button" value="Automatic"/> ▼
CT Ratio	<input type="text" value="0.0"/>
Comp. Mode	<input type="text" value="0"/>
ConstantReactive	<input type="text" value="0.0"/>
GridVoltageAdjust	<input type="button" value="Disable"/> ▼
Target Vol.	<input type="text" value="0.0"/>
Vol. regulate upper	<input type="text" value="0.0"/>
Vol. regulate lower	<input type="text" value="0.0"/>
RP Tracking Ctrl Val.	<input type="text" value="0.0"/>

Angle Biasing

1 #	<input type="text" value="0.0"/>
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WiFi display – Setting



Setting Interface-Commen

Comp. Rate:

Set the compensation ratio of compensation current measured by the product itself. The setting range is 0~1, 1 on behalf of 100%.

Constant Reactive:

When the operation mode selection constant reactive, is used to set the value of constant reactive power output, you can select the output inductive or capacitive power by setting the positive and negative values. (user have to ask manufacturer engineer first before set it)

Commen

Device Address	<input type="text" value="1"/>
Power ON/OFF	<input type="button" value="PowerOFF"/> ▼
One/Three phase	<input type="button" value="ThreePhase"/> ▼
Comp. Rate	<input type="text" value="0.0"/>
Target Power Factor	<input type="text" value="0.0"/>
Operation Mode	<input type="text" value="0"/>
Quantity	<input type="text" value="0"/>
Total Capacity	<input type="text" value="0.0"/>

CT Location	<input type="text" value="0"/>
Power ON Mode	<input type="button" value="Automatic"/> ▼
CT Ratio	<input type="text" value="0.0"/>
Comp. Mode	<input type="text" value="0"/>
ConstantReactive	<input type="text" value="0.0"/>
GridVoltageAdjust	<input type="button" value="Disable"/> ▼
Target Vol.	<input type="text" value="0.0"/>
Vol. regulate upper	<input type="text" value="0.0"/>
Vol. regulate lower	<input type="text" value="0.0"/>
RP Tracking Ctrl Val.	<input type="text" value="0.0"/>

Angle Biasing

1 #	<input type="text" value="0.0"/>
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WiFi display – Setting



Setting Interface-Commen

Grid Vol. Adjust:

Default setting is Disable. Set the voltage target value. The machine will compensate the voltage if system voltage over the range of target voltage.

Target Vol:

When the value exceeding the target voltage setting range, the product will go to adjust the voltage from other operation mode

Commen

Device Address	<input type="text" value="1"/>
Power ON/OFF	<input type="button" value="PowerOFF"/> ▼
One/Three phase	<input type="button" value="ThreePhase"/> ▼
Comp. Rate	<input type="text" value="0.0"/>
Target Power Factor	<input type="text" value="0.0"/>
Operation Mode	<input type="text" value="0"/>
Quantity	<input type="text" value="0"/>
Total Capacity	<input type="text" value="0.0"/>

CT Location	<input type="text" value="0"/>
Power ON Mode	<input type="button" value="Automatic"/> ▼
CT Ratio	<input type="text" value="0.0"/>
Comp. Mode	<input type="text" value="0"/>
ConstantReactive	<input type="text" value="0.0"/>
GridVoltageAdjust	<input type="button" value="Disable"/> ▼
Target Vol.	<input type="text" value="0.0"/>
Vol. regulate upper	<input type="text" value="0.0"/>
Vol. regulate lower	<input type="text" value="0.0"/>
RP Tracking Ctrl Val.	<input type="text" value="0.0"/>

Angle Biasing

1 #	<input type="text" value="0.0"/>
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WiFi display – Setting



Setting Interface-Commen

Vol. regulate upper:

If the voltage over upper limite of target voltage , the product will go to reduce voltage from other operation mode

Vol. regulate lower :

If the voltage over lower limite of target voltage , the product will go to improve voltage from other operation mode

(this voltage stable function only for especial model product)

Noted: These two function only can work when the Grid Vol. Adjust is enable.

Commen

Device Address	<input type="text" value="1"/>
Power ON/OFF	<input type="button" value="PowerOFF"/> ▼
One/Three phase	<input type="button" value="ThreePhase"/> ▼
Comp. Rate	<input type="text" value="0.0"/>
Target Power Factor	<input type="text" value="0.0"/>
Operation Mode	<input type="text" value="0"/>
Quantity	<input type="text" value="0"/>
Total Capacity	<input type="text" value="0.0"/>

CT Location	<input type="text" value="0"/>
Power ON Mode	<input type="button" value="Automatic"/> ▼
CT Ratio	<input type="text" value="0.0"/>
Comp. Mode	<input type="text" value="0"/>
ConstantReactive	<input type="text" value="0.0"/>
GridVoltageAdjust	<input type="button" value="Disable"/> ▼
Target Vol.	<input type="text" value="0.0"/>
Vol. regulate upper	<input type="text" value="0.0"/>
Vol. regulate lower	<input type="text" value="0.0"/>
RP Tracking Ctrl Val.	<input type="text" value="0.0"/>

Angle Biasing

1 #	<input type="text" value="0.0"/>
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WiFi display – Setting



Setting Interface-Commen

RP Tracking Ctrl Val: Cause AHF itself will C current to compensate the reactive power generated by itself. This function is to adjust the current. Each unit is 1kvar. Plus is inductive and minus is capacitive.

Noticed: Please contact Sinexcel engineer before changing this parameter.

RP Tracking Ctrl Val.	<input type="text" value="0.0"/>
Angle Biasing	
1#	<input type="text" value="0.0"/>
3#	<input type="text" value="0.0"/>
5#	<input type="text" value="0.0"/>
7#	<input type="text" value="0.0"/>
9#	<input type="text" value="0.0"/>
11#	<input type="text" value="0.0"/>
13#	<input type="text" value="0.0"/>
>	
Harmonics	
3#	<input type="text" value="0"/>
5#	<input type="text" value="0"/>
7#	<input type="text" value="0"/>
9#	<input type="text" value="0"/>
11#	<input type="text" value="0"/>
13#	<input type="text" value="0"/>
15#	<input type="text" value="0"/>
17#	<input type="text" value="0"/>
19#	<input type="text" value="0"/>
[2,61]#	value
<input type="text" value="2"/>	<input type="text" value="0"/>
Page down	
Monitor	

WiFi display - Settings



Setting Interface-Angle Biasing

Default setting is 0.

3 to 13 times harmonic phase angle offset and harmonic compensation rate. When some phase difference happened due to the transformer or some thing, adjust this parameters can approve the compensation performance.

RP Tracking Ctrl Val.

Angle Biasing

1#	<input type="text" value="0.0"/>
3#	<input type="text" value="0.0"/>
5#	<input type="text" value="0.0"/>
7#	<input type="text" value="0.0"/>
9#	<input type="text" value="0.0"/>
11#	<input type="text" value="0.0"/>
13#	<input type="text" value="0.0"/>

>

Harmonics

3#	<input type="text" value="0"/>
5#	<input type="text" value="0"/>
7#	<input type="text" value="0"/>
9#	<input type="text" value="0"/>
11#	<input type="text" value="0"/>
13#	<input type="text" value="0"/>
15#	<input type="text" value="0"/>
17#	<input type="text" value="0"/>
19#	<input type="text" value="0"/>
[2,61]#	value
<input type="text" value="2"/>	<input type="text" value="0"/>

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Monitor

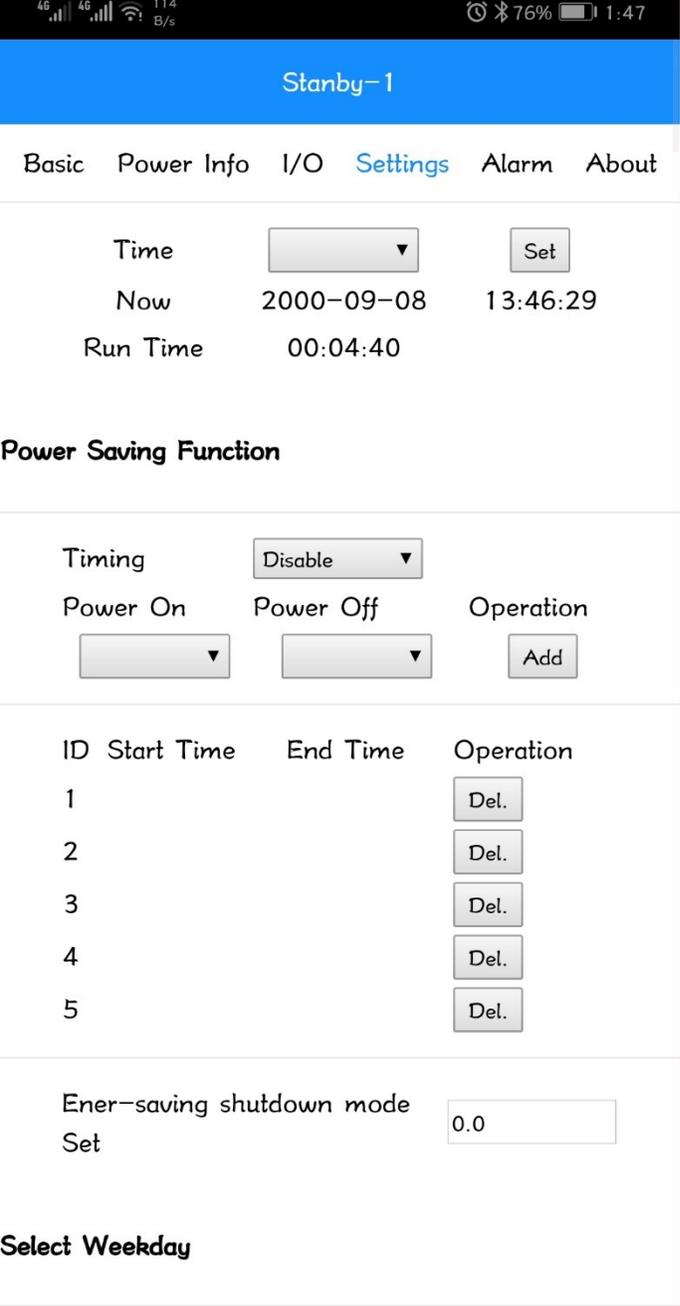
WiFi display - Settings



Setting Interface-Harmonic

Harmonic compensation rate of each order which is from 2nd order to 50th order. And each order can be changed from 0%~110%.

The last bank can select which order you want to change, and next blank is where you need to input the correspond rate.



WiFi display - Settings

Sinexcel

Setting Interface-Time

Set the time of the product.

Setting Interface-Power Saving Function

Using this function, we can set the AHF to work at some time and sometimes not working.

Ener-saving shutdown mode Set 0.0

Select Weekday

- Monday Disable
- Tuesday Disable
- Wednesday Disable
- Thursday Disable
- Friday Disable
- Saturday Disable
- Sunday Disable

start time end time Operation

Select Holidays

ID	Start Time	End Time	Operation
1			Del.
2			Del.
3			Del.
4			Del.
5			Del.

Page Up Page Down

WiFi display - Settings



Setting Interface-Power Saving Function

Using this function, we can set the AHF to work at some time and sometimes not working.

Also, We can choose the time by week or by holiday.

Language	English ▼
Wi-Fi	PQ366bd7
UserName	admin
UserPass	08080808

(Username and password can only be numbers and letters, and password consists of 8 digits)

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WiFi display - Settings



Setting Interface

Language:
choose the language which customer prefer.

Wi-Fi:
Set the WiFi name

UserName

UserPass

Parameter		Description	
Comp. Mode:	0-Intelligent	1-Sequential	2-All
CT Location:	0-Supply	1-Load	
Operation mode			
APF:	0-H	1-H+Q	2-H+Q+B
	3-Auto-ageing	4-H+B+Q	5-H+B
	6-Q+H	7-Q+H+B	8-Q+B+H
	9-B+H	10-B+H+Q	11-B+Q+H
ASVG:	3-Auto-ageing	6-Q+H	8-Q+B+H
	9-B+H	11-B+Q+H	
SVG:	1-Reactive	2-Q+B	3-Auto-ageing
	4-B+Q	5-B	12-ConstantReactive
Note:	H-Harmonic Comp.	Q-Reactive Comp.	B-Balancing Comp.

WiFi display - Settings



Setting Interface-Guidance



WiFi display - Alarm



Alarm Interface

From this interface, you can see all the alarm record happened in the past.

Software Version

Control Software	M000B000
Monitor Software	M000B000
WIFI Software	M113

Update

WiFi display - About



About Interface

Software Version

Update

Download the date though WiFi.

THANKS