

# **Configuration Instructions**

H2 Series

HS2/AS2 Series

**HS3 Series** 

### **Table of Contents**

1.	Requ	uired Devic	es	
2.	Syste	em Connec	tion: Single-phase hybrid inverter	
	2.1.	One hybri	id inverter, single-phase grid	
	2.2.	One hybr	id inverter, three-phase grid	
	2.3.	One hybr	id inverter, solar inverter, single-phase grid (AC-coupling connection)	7
		2.3.1.	Internal 80 A CT connection (current ≤ 80 A)	7
		2.3.2.	External 100 A CT connection (current ≤ 100 A)	
	2.4.	One hybri	id inverter, solar inverter, three-phase grid (AC-coupling connection)	
		2.4.1.	Internal 80A CT connection (current < 80 A)	9
		2.4.2.	External 100A CT connection (current ≤ 100 A)	
	2.5.	Multiple h	ybrid inverters, one EMS (paralleling connection)	
		2.5.1.	RS485 connection (up to 6 inverters)	
		2.5.2.	LAN connection (up to 10 inverters)	
3.	Syste	em Connec	tion: Three-phase hybrid inverter	
	3.1.	One hybri	id inverter	
	3.2.	One hybri	id inverter, one solar inverter (AC-coupling connection)	
		3.2.1.	Internal 80A CT connection (current ≤ 80 A)	
		3.2.2.	External 100A CT connection (current ≤ 100 A)	
		3.2.3.	External 250A/500A CT connection (current > 100 A)	
	3.3.	Multiple h	ybrid inverter, one EMS (paralleling connection)	
		3.3.1.	RS485 connection (up to 6 inverters)	
V0.0	)		2	© 2024 Sanjing. All rights reserved.

		3.3.2.	LAN connection (up to 10 inverters)	22
4.	Syste	em Commissi	oning	25
	4.1.	Installing th	е Арр	25
	4.2.	Logging In	to the App	25
	4.3.	Performing	the Initialization Settings	26
	4.4.	Configuring	the Communication Module	32
	4.5.	Creating a l	Plant	33
	4.6.	Viewing the	e Reactive Power Control Settings	34
		4.6.1.	Viewing the Fixed Power Factor Mode and Fixed Reactive Power Mode	34
		4.6.2.	Viewing the V-Watt and Volt-Var Modes (For Australia and New Zealand)	36
	4.7.	Enabling th	e AFCI (optional)	38
	4.8.	Running Se	lf-test (For Italy)	39



#### 1. Required Devices

- H2 series hybrid inverter
- HS2/AS2 or HS3 series all-in-one hybrid inverter, integrated with a battery control unit
- BC2 series battery control unit
- BU3 or BU2 series battery
- BC3 battery combiner box

Equipment	One hybrid inverter	One hybrid inverter + Solar inverter (AC-	Multiple hybrid inverters (paralleling)	Multiple hybrid inverters + Solar inverter (paralleling + AC-coupling)
		coupling)		
Inverter and batteries	<ul> <li>H2 + BC2 + BU2</li> <li>HS2/AS2 + BU2</li> <li>HS3 + BU3 + BU3</li> </ul>	; or	e battery cascading scenario)	
Solar inverter	/	Yes	/	Yes
Meter	1	2*	1	Depending on the phase current of the solar inverter: • Current ≤ 63A: 0 • Current > 63A: 1
EMS	/	/	1	1
External CT	<ul> <li>1-phase: 1</li> <li>3-phase: 3</li> </ul>	<ul><li>1-phase: 2</li><li>3-phase: 6</li></ul>	<ul> <li>Current ≤ 63A: Not required</li> <li>Current &gt; 63A:</li> <li>&gt; 1-phase: 1</li> <li>&gt; 3-phase: 3</li> </ul>	
	<b>Note:</b> Not required in which has CT integra	f you use an 80 A meter ited.	1	<b>Note:</b> If you use a meter because the phase current of the solar inverter exceeds 63A, the CT quantity here will be doubled.

\* If two meters are required, on the grid side, use Meter 1 (with preset address 1) in the brown package box; on the solar inverter side, use Meter 2 (with the preset address 2) in the white package box.

ATTENTION: Do NOT change the default addresses of the two meters.



- 2. System Connection: Single-phase hybrid inverter
  - 2.1. One hybrid inverter, single-phase grid





#### 2.2. One hybrid inverter, three-phase grid



Hybrid inverter+battery



#### 2.3. One hybrid inverter, solar inverter, single-phase grid (AC-coupling connection)

Before connection, contact SAJ technical support to confirm the detailed operations.

#### 2.3.1. Internal 80 A CT connection (current ≤ 80 A)





#### 2.3.2. External 100 A CT connection (current ≤ 100 A)



© 2024 Sanjing. All rights reserved.



#### 2.4. One hybrid inverter, solar inverter, three-phase grid (AC-coupling connection)

Before connection, contact SAJ technical support to confirm the detailed operations.

#### 2.4.1. Internal 80A CT connection (current ≤ 80 A)





#### 2.4.2. External 100A CT connection (current ≤ 100 A)





#### 2.5. Multiple hybrid inverters, one EMS (paralleling connection)

Before connection, contact SAJ technical support to confirm the detailed operations.

#### 2.5.1. RS485 connection (up to 6 inverters)

Supported inverter models:

- H2-(3K-6K)-S2
- HS2-(3K-6K)-S2

Connect the communication cables from the RS485 port on the inverter to the corresponding terminals on the eManager. If the RS485

port is not available on the inverter, use the EMS/Meter port.

From the RS485 or EMS/Meter port on the inverter	To the RS485 terminals on the eManager			
Pin 7	RS485-A			
Pin 8	RS485-B			

#### Notes:

The eManager provides three pairs of RS485 terminal combinations.

- RS485 A1 and RS485 B1
- RS485 A2 and RS485 B2
- RS485 A3 and RS485 B3

You can connect the inverter to any pair of the above combination. However, for one pair, make sure that:

- A maximum of two inverters are connected.
- The inverters must be of the same type. A hybrid inverter and a solar inverter cannot be connected to the same pair of RS485 terminal combination.

#### Internal CT connection (current $\leq$ 63 A) in the single-phase grid

If the current exceeds 63 A, use the external CT connection manner.



#### External CT connection (current > 63 A) in the single-phase grid

You can use 100A/50mA or 250A/50mA CTs, depending on the plant capacity. (Plant capacity = The greater value of the total inverter power or the total on-grid load power)



#### 2.5.2. LAN connection (up to 10 inverters)

Supported inverter models:

• H2-(10K-30K)-(T2, T3)



- HS3-(5K-12K)-T2 (To construct the paralleling scenario for HS3 series, contact SAJ first.)
- HS3-(3K-6K)-S2 (To construct the paralleling scenario for HS3 series, contact SAJ first.)

#### Internal CT connection (current $\leq$ 63 A) in the single-phase grid

If the current exceeds 63 A, use the external CT connection manner.



#### External CT connection (current > 63 A) in the single-phase grid

You can use 100A/50mA or 250A/50mA CTs, depending on the plant capacity. (Plant capacity = The greater value of the total inverter power or

the total on-grid load power)





- 3. System Connection: Three-phase hybrid inverter
  - 3.1. One hybrid inverter





#### 3.2. One hybrid inverter, one solar inverter (AC-coupling connection)

Before connection, contact SAJ technical support to confirm the detailed operations.

#### 3.2.1. Internal 80A CT connection (current ≤ 80 A)



© 2024 Sanjing. All rights reserved.











#### 3.2.3. External 250A/500A CT connection (current > 100 A, CT prepared by users)



#### 3.3. Multiple hybrid inverter, one EMS (paralleling connection)

Before connection, contact SAJ technical support to confirm the detailed operations.

#### 3.3.1. RS485 connection (up to 6 inverters)

Supported inverter models:

- HS-(5K-10K)-T2
- HS2-(5K-10K)-T2

Connect the communication cables from the RS485 port on the inverter to the corresponding terminals on the eManager. If the RS485

port is not available on the inverter, use the EMS/Meter port.

From the RS485 or EMS/Meter port on the inverter	To the RS485 terminals on the eManager			
Pin 7	RS485-A			
Pin 8	RS485-B			

#### Notes:

The eManager provides three pairs of RS485 terminal combinations.

- RS485 A1 and RS485 B1
- RS485 A2 and RS485 B2
- RS485 A3 and RS485 B3

You can connect the inverter to any pair of the above combination. However, for one pair, make sure that:

• A maximum of two inverters are connected.

The inverters must be of the same type. A hybrid inverter and a solar inverter cannot be connected to the same pair of RS485 terminal combination.

#### Internal CT connection (current $\leq 63$ A) in the three-phase grid

If the current exceeds 63 A, use the external CT connection manner.



#### External CT connection (current > 63 A) in the three-phase grid

You can use 100A/50mA or 250A/50mA CTs, depending on the plant capacity. (Plant capacity = The greater value of the total inverter power or

#### the total on-grid load power)



#### 3.3.2. LAN connection (up to 10 inverters)

Supported inverter models:



- H2-(10K-30K)-(T2, T3)
- HS3-(5K-12K)-T2 (To construct the paralleling scenario for HS3 series, contact SAJ first.)
- HS3-(3K-6K)-S2 (To construct the paralleling scenario for HS3 series, contact SAJ first.)

#### Internal CT connection (current $\leq 63$ A) in the three-phase grid

If the current exceeds 63 A, use the external CT connection manner.



#### External CT connection (current > 63 A) in the three-phase grid

You can use 100A/50mA or 250A/50mA CTs, depending on the plant capacity. (Plant capacity = The greater value of the total inverter power or the total on-grid load power)





#### 4. System Commissioning

The Elekeeper (used to be called eSAJ Home) App can be used for both nearby and remote monitoring. It communicates with different devices through Bluetooth or Ethernet connection.

Note: The detailed operations on the App might vary, depending on the version you are using.

#### 4.1. Installing the App

On your mobile phone, search for "Elekeeper" or "eSAJ Home" in the App store. Download and install the App.

### 4.2. Logging In to the App



#### Have an account? — Log in to the App.

- 1. Tap the three-dot icon •••• on the top right corner. Choose the language and network node based on your needs.
- 2. Use your account and password for login.



#### 4.3. Performing the Initialization Settings

#### Before you start

Enable the Bluetooth function on your mobile phone.

No account? — Apply for a new account for login.

- Tap the three-dot icon on the top right corner. Choose the language and network node based on your needs.
- 2. Tap **Register.** Choose whether you are an owner, an installer, or a distributor.

**Note:** For commissioning convenience, it is suggested that the owner account be applied by the installer.

- Set your username, country/region, time zone, email, and password. Select the registration agreements and confirm the registration.
- Use the applied account and the password for login.

Off

Off Storage on-gird parallel PV on-gird parallel Storage on-gird parallel + PV on-gird parallel



- Start the initialization. 1.
  - On the Service interface, select Remote a. Configuration. Tap Bluetooth and tap Next. Tap your inverter according to the last five number of the inverter serial number (SN).
  - Follow the instructions on the screen for b. the settings.

#### 10:07 ::!! 🕆 🔳 10:08 11 P 🗈 Parallel connection setting < Parallel connection setting Parallel mode Parallel mode Pi/ on- gird parallel Total number of parallel devices 1 Parallel ID 0 Multi-machine connection method 485 Multi-machine connection method

#### Parallel connection settings

Set the values based on the actual conditions.

Configuration	Corresponding parallel mode
Multiple H2 + B2 (parallel)	Storage on-grid parallel
One H2 + B2 + solar inverter (AC couple)	PV on-grid parallel
Multiple H2 + B2 + solar inverter (parallel + AC couple)	Storage on-grid parallel+ PV on-grid parallel

10:10	#! ? D	10:11		<b>11</b>	? •	
Battery Brand		<	Battery Sett	ings		
Battery Brand		Battery Capi	acity	0 The beauty	Ah	
SAJ	1	Equalized ch	arging voltage	620	v	
		Battery Und- Warning Val	ervoltage	180	v	
		starting van				
		Discharge C	utoff Voltage	180	V	
		Charge Curr	0	6		
		Discharge C Value	urrent Limit	0	A	
		Battery On-I	3rid Discharge	20	36	
		Capacity Los	ver Limit	(10-80)		
No Battery		Lower limit o charging cap	f battery bacitance(off-	10	%	
		grid)		Cin-aic		
LAS	~	Battery Char Upper Limit	ge Capacity	100	%	
DYNESS-H		120100-00228	e Reference de la companya de la comp	80	1 1975	
		Battery SOC	Retention Value	(0-M(0)	56	
PYLON SC0500		battery wake	i up		0	
Lead Acid		Pr	evious			

#### Battery brand and settings

Set the values per your needs.

#### 10:27 10:16 10:27 #!?**•** < Testing device Testing device Testing device Wiring Wiring Wiring No meter A three-phase four-wire meter Two three-phase four-wire meters System Schematic System Schematic System Schematic 1. Use 2x DTSU886 (in-line) meters 00 / 40 / 2 Ļ 麸 大大 本 28

#### Meter and system schematic

Examples of three system schematic settings





Cash all and an assessments



#### Export limit settings

Set the values per your needs.

- Total power mode: If this option is selected and the power value is set (for example, 1000 W), the maximum power exported from the whole system to the grid is 1000 W.
- **Current mode**: If this option is selected and the current value is set (for example, 20 A), the maximum current of each phase is 20 A.
- Each phase power mode: If this option is selected and the power value is set (for example, 1000 W), the maximum power exported from each phase to the grid is 1000 W.

#### Working mode

Here takes Self-Consumption Mode as an example.

- Self-Consumption Mode: The generated PV energy is provided to the devices in order: loads > batteries > grid
- Time-of-use Pricing Mode
  - In the battery charging or discharging period, the batteries can only be in charging or discharging. In other period, the battery will work in self-use mode.
  - The battery charging and discharging periods are adjustable.

#### Back-up Mode

- After initialization, you can change he default SOC value.
- When the battery SOC is lower than the configured SOC value, the batteries can only be in charging without discharging.
- When the battery SOC reaches the configured SOC value, the batteries will stop charging.
- When the battery SOC is higher than the reserved SOC value, the batteries will work in self-use mode.





#### AFCI function

This page is displayed only if your inverter provides the AFCI function.

You can choose whether to enable this function and tap **Next**.





10:34	#!? <b>₹</b> ∎⊃
Initia	alization
Country	
Germany	
Brid Compliance	
VDE AR-N4105	
nverter Time	
2023+12-28 10:34	Auto Time Sync
nverter SN	
H2'	

#### Country and grid compliance

**Note:** Make sure to tap **Auto Time Sync** to synchronize the time; otherwise, the inverter will be displayed as offline.





Complete the initialization and view the configured device information.

#### 4.4. Configuring the Communication Module

#### About this task

If you want to remotely monitor the energy storage system and view the device statistics (for example, when you are away from

home), connect the communication module installed on the inverter to your home network.

17:1	5 🖬 🕫 👀	17:15 #! 🗢	<b>*</b> ) 15:24	t utte	5G 💼	15:24	ul 🕆 🍽	8	17:16 👥 🕫	•	15:24		ull 🕈 💷
<	Device List	Communication Module	€ <	Communication Module		Module Mode Settin	gs	<	Communication Module		<	WiFi configuration	
Commu	nication Module Network Status	Module SN		dule Mode Settings	>	Module Mode Settings		(EE)	Module Mode Settings	5	÷	SSID	$(\widehat{\mathbf{r}})$
220	M53 Model: eSolar AIO3	Mt eSciar All	3 H EU	nemet Configuration	×	auto		曲	Ethernet Configuration	>		Password	
Device	(1)	Product Code 1234567 Firmware Version v1.2	2 🦻 🤗 Wife	Fi configuration	>			Ŧ	WiFi configuration	3	Network Name	SAJ_SYS_5G	Ý
	HIX	Hardware Version v10 Working Modes au		mmunication System Settings	>			.m.	Network Diagnosis	>	Router Passwor	d Please enter th	e router passw
9	Device Model H1-6K-52 > Communication Address 1	WIEI	ali. Ne	twork Diagnosis	ž			G	Restore Factory Settings	>			
		Connect	up 🕒 Res	store Factory Settings	>			0	Restart Module	>			
(+)	Firmware Update	MAC Address A0:87:65:050	BC:	start Module	×.								
		IP 10.10.12	140		~								
		Mask 255.255.	52.0										
		Gateway 10.10	20.1										
		Router SSID SAJ_SY	_50										
		Router BSSID CC:D7:3C:5A:	5-63										
		Router Signal -5	dBm									IP Configuration	
		Ethernet				wifi							
		Connect	lown										
		MAC Address A0:87:85:C5	E:67			Ethernet							
		P G	0.0.0										
		Mask 0	0.0.0			auto							
		Gateway 0	0.0.0										

- 1. On the **Device List** page, select your communication module according to its SN.
- 2. Tap the settings icon 😟 on the upper right corner.
- If you want to change the default network connection mode auto, select Module Mode Settings, and set it to wifi or Ethernet.
   Note: In the auto mode, the communication module will either select Wi-Fi or Ethernet connection mode.
- 4. If auto or wifi is selected, select WiFi Configuration, and input the name and password of your home network.



### 4.5. Creating a Plant

My Customers Q < Create Account < My Customers	19:16		:tt ♥ ■0	10:17	2	🗢 🗰			
A * toread         + Karme         - Karme	Plant Inv	erter Battery	_	Plant Inverter					
234733       196157       3303       50005       92       0	Q Please entr		:- 🕀			≘ ⊕			
tion The Rague yeter 4.5% San. Rague yeter 4.5% San. Rague yeter 4.5% San. Provide the set of several seve									
regular y general value de la construcción de la	Created later than	Ŷ	♡ 17=	Latest installation , date	~	♡ ¶=			
Former new fore decision is a line of the set of t		Current Power Today's Energy Total Energy Generated	0.0 W 0.0 kWh 0.0 kWh						
Interaction     Interaction       Interaction <td>9 211</td> <td>Current Power Today's Energy Total Energy Generated</td> <td>0.0 W 0.0 kWh 0.0 kWh</td> <td>Ň</td> <td>io data</td> <td></td> <td></td> <td></td> <td></td>	9 211	Current Power Today's Energy Total Energy Generated	0.0 W 0.0 kWh 0.0 kWh	Ň	io data				
Create Plant for Owner Create Plant for Owner Cancel 10:17	0	Rancs	٥	Create	Plant for Me				
Image: Cancel     10:17     My Customers     Q     Create Account     Usersame     Usersame     Usersame     Usersame     Usersame     Usersame     Usersame     Usersame     Usersame     Distance     Usersame     Usersame     Distance     Distance     Time Zone     Time Zone <td>1</td> <td></td> <td></td> <td>Create Pl</td> <td>ant for Owner</td> <td>1</td> <td></td> <td></td> <td></td>	1			Create Pl	ant for Owner	1			
10:17     Image: Create Account     Image: Create Account     My Customers       My Customers     Image: Create Account     My Customers       Image: County Region     County Region       Image: County Region     Image: County Region		10 11			ancal	-			
My Customers Q Create Account Vy Customers 24/200       No Gata     Create Account     My Customers       Time Zone     Country/Region	10:17			201 - C			10-10		<b>≈ 14</b>
Ucerame 24/20 Country/Region No data Time Zone Email © Passend © Time Is altern regions index information in Passend © Time Is a large region for the set Time Is a l		My Customers			te Account			My Customers	Q
No data Time Zone Email ③ Email ④ Email ④ Email ④ Email ● Emai	·			Username			0		28/12/2023
Email ③ Email ④ Email ④ Email ④ Email ● Email		* *		inner.					
Email  Password  The server of the server The control for the server of the serve		No data			the second second				
Password					and managements.				
Italian basis astructural by the graf     The costering as each other that the grant personal     information plases other minimum dataformation in     advance     The costering as the minimum dataform on personal     The costering as the minimum dataform on personal     The costering as the minimum dataform on personal				and the second second					
<ul> <li>Items been achieved by the get The content you use and includes your percent Information places obtain miceut achiever affects in advance.     </li> <li>The content is the miceut achiever and one present advance.     </li> </ul>									
information, please obtain relevant authorization in advance.									
Veg, glassa Salar na spätialad för neur, events and office.				information, please of advance	tain relevant authoriz	ation in			
Register the owner's account Register Register the owner's account	Peri	ter the numeric pe	count	and offers.				onistan the numeric on	-ount

 On the Management page, tap the ⊕ icon on the top right corner. Select Create Plant for Owner.

2. Apply for an account for the end user.



10:36	🕈 🗰	18:05		u!! 🗢 🗰	18:07		::! 중 👪
< Add		<	Add		<	Add	
Plant Owner	-	Plant Owner		100003-000010	Plant Owner		100100011
Name		Please enter the	- SN	В	Name		
Test Demo Plant		Supports inverter 5	in/SEC Madule !	SN/EMS SN	Test demo pla	nt	
Capacity					Capacity		
10	kWp	Device 1 SN	HS	•	10		kWp
* Country/Region		Device Capacity		kt/lp	* Country/Regio	in	
China		Device Capacity	10 10	KNP	Germany		
• Location					* Plant Time Zo	ne	
ودهادو مشجعا بالتو بإلمالاتي الم	- 1 mar				(UTC+01:00) A	Amsterdam, Berlin,	Bern >
Detailed Address					* Plant Address		
teeritii .	0				1010030	10 U	۲
" Use Type					* Use Type		
Home Use					Home Use		
Number of Components					Number of Com	ponents	
					Please enter		
PV Panel Azimuth					PV Panel Azimu	th	
Prévious Creat	te Plant		Next			Cr	eate Plant

3. Configure the plant details based on your actual conditions.

#### 4.6. Viewing the Reactive Power Control Settings

#### 4.6.1. Viewing the Fixed Power Factor Mode and Fixed Reactive Power Mode

Once **Country** and **Grid Compliance** are selected during initialization, the parameters relating to the reactive power control settings are set automatically. In typical household scenarios, it is no need to change these default parameter values. If you really need to change them, before any modifications, contact SAJ for consultation and ensure that you have necessary electric knowledge and are fully aware of the impact of such modifications.

To view the settings, perform as follows:

- Check the manufacturing date of the inverter according to the SN, such as an SN "1 502 0 G 11 01 CN 00000", in which "11 01" indicates that the manufacturing date is the first week in 2011.
- 2. Depending on your inverter manufacturing date, view the parameter values as follows:



::: ? @ 14:38 Cloud Connection HZT2103J2250E08949 Device Info 38 Device Maintenance 龙 Initialization Battery Settings 南 Feature Parameters 5 Power Adjustment F Working Modes (i) Export Limitation Settings Testing Device
 Parallel connection setting IIE P & Q Response Parameter settings

- For the equipment manufactured before August 2023: Tap Power Adjustment and enter the password. (Contact SAJ for the password.)
   For Reactive Power Compensation Mode:
  - Fixed power factor mode: Capacitive Power Factor Adjustment or Inductive Power Factor Adjustment. The power factor range is from 0.8 leading to 0.8 lagging.
  - Fixed reactive power mode: Inductive Adjustment (Var) or Capacitive Adjustment (Var). The power ranges from -60% Pn to 60% Pn.

• For the equipment manufactured after August 2023: Tap Parameter settings.



P/Pn(%)

100%

80%

60%

40%

20%

0%

200

V1

V2

220

210

230

#### 4.6.2. Viewing the V-Watt and Volt-Var Modes (For Australia and New Zealand)

V3

250

240

260

270

V4

This inverter complies with AS/NZS 4777.2: 2020 for power quality response modes. It meets DNSPs' grid connection rules and requirements for the volt-watt and volt-var settings in different regions.

Curve for a Volt-Watt response mode (AS4777 Series)



Curve for a Volt-Var control mode (AS4777 Series)

#### V0.0



1	9:18 #!		19:44	ul 🕈 👪
	Local Connection	U	< Ini	itialization Sav
-	Bluetooth Connection:BlueLink:04892		Country	
H	H1X2602G2302E12345		Australia	
77.5			Grid Compliance	
10	Device Maintenance	×	AS 4777	
8	Initialization	×	Inverter Time	_
Ð	Battery Settings	-	2023-12-28 19:43	3 🕅 Auto Time Sync
8	build y buildings		Inverter SN	
9	Protection Parameters		PBT2103G2301E0	90008
1	Feature Parameters	>		
đ	Power Adjustment			
P	Working Modes	×		
	DRM Settings			
D	Export/Generation Limitation Settings	×		
3	Testing device			
C)	V-Watt/V-Var	>		

1. Tap **Initialization** and check whether the grid compliance is set properly. Change the settings if needed.

19:18	di 🗢 🗰	19:17	u! 🗢 👪		
Local Connection	Ċ	<	AS 4777		
Bluetooth Connection:BlueLink:		V-Watt	Enabl		
HD HD		VI	207.0 V		
http://www.ce.maintenance		V2	220.0 V		
S Initialization		V3	253.0 V		
Battery Settings	5	V4	260.0 V		
S Protection Parameters		56P1	100.0%		
E Feature Parameters	>	%P2	100.0%		
Power Adjustment			100.0%		
			20.0%		
Working Modes	×	V-Var	Disabled		
DRM Settings		VI	207.0 V		
Export/Generation Limitation Setti	ngs >	V2	220.0 V		
Testing device	×	V3	240.0 V		
V-Watt/V-Var	×	V4	258.0 V		
		A1174 PM	1.000		

2. Tap V-Watt/V-Var to enter the settings page.



### 4.7. Enabling the AFCI (optional)

1	7:46	ull 🗢 🔳	17:46		: 🕈 🔳
	Local Connection	Ċ	<	AFCI settings	Save
	Bluetooth Connection:BlueLink:0	1004	Arc-fault de	ection enable	C
121	Battery Settings	>	AFCI device	1 channel 1 enabled	C
1	Charging station settings	5	AFCI device	1 channel 2 enabled	C
9	Protection Parameters	>	Manually c	learing the arc-pulling alarm	
÷	Feature Parameters	>			
1	Power Adjustment	>			
Z	Working Modes	>			
۲	Communication Settings	>			
0	Export Limitation Settings	>			
0	Testing device	Σ			
1	Parallel connection setting	>			
2	AFCI settings	>	I		

If you want to enable or disable the AFCI function, on the **Local Connection** page, tap **AFCI settings**. On the **AFCI settings** page, choose to enable or disable the detailed settings.



#### 4.8. Running Self-test (For Italy)

#### About this task

Italian Standard CEI0-21 requires a self-test function for all inverters connected to the utility grid. The self-test ensures that the inverter can be disconnected from the grid when required.

During the self-test, the inverter will check the reaction time for over-frequency, under-frequency, over-voltage, and under-voltage. If the self-test failed, the inverter stops providing the electricity to the grid.

#### Before you start

- Ensure that the communication module (Wi-Fi/Bluetooth/Ethernet) of the inverter is connected to the network. Refer to section 4.4 "Configuring the Communication Module".
- Ensure that **Country** is set to **Italy** and **Grid Compliance** is selected properly. To check the settings, choose **Initialization** on the **Local Connection** page.

. 1	9:53 #! 1	≈ ■	19:56		: *	19:56		::! 🗢 💼
	Local Connection	Ċ	<	Self-Test	G	<	Self-Test	G
	Bluetooth Connection:BlueLink:		Ovp(59.S2) tes	st	$\odot$	Ovp(59.S2)	test	$\odot$
Ш	PE		Ovp10(69.51) t	est	0	Ovp10(59.51	) test	
*	Device Maintenance		Uvp(27.S1) test	t.	0	Uvp(27.S1) 1	test	
A	Initialization		Uvp2(27.S2) test		1.2	Uvp2(27.S2) test		
-			Ofp(81>.51) te	হা	0	Ofp(81>.51)	test	
	Battery Settings	>	Ofp2(81>.S2) t	est	10	Ofp2{81>.S2	) test	
0	Protection Parameters		Ufp(8 Do	Notice you want to start testing?		Ufp(81<.S1)	test	
由	Feature Parameters	>	Utp2( Ca	ncel Confirm	10:	Ufp2(81<.S2	) test	
3	Power Adjustment		All test		0	All test		
	Working Modes	×						
Ø	Export Limitation Settings							
0	Testing device	×						
3	Self-Test	>					Test in progress	er val
15	Parallel connection setting	×		Start Test			Start Test	

- On the Local Connection page, choose Self-Test. Set the self-test parameters if needed.
- Select the required test and tap Start.
   One test will take around 5 minutes. If you have selected All test, all tests will take around 40 minutes.
- (Optional) After the self-test is completed, save the test report.

If the self-test failed, contact SAJ or your installer.



Tel: (86)20 66608588 Fax: (86)20 66608589 Website: www.saj-electric.com Add: SAJ Innovation Park, No.9, Lizhishan Road, Science City, Guangzhou High-tech Zone, Guangdong, P.R.China

**GUANGZHOU SANJING ELECTRIC CO.,LTD** 

V0.0