

SNMP Web Management

User's Manual For SNMP Web Box SILA

Management Software for Off-Grid Inverter

Version: 1.1

www.sila-ups.ru

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1. Overview

1.1 Introduction

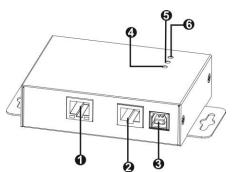
This SNMP web box can provide web server to monitor and manage off-grid inverters in a networked environment including LAN and INTERNET. It can retrieve the device working status, working data and setting.

Integrated with WatchPower software, it can monitor and remote access all distributed off-grid inverters via SNMP interface. For the detailed operations, please check user manual of WatchPower.

1.2 Features

- > Open monitor via Web Browser.
- Automatically detect and exchange data through 10M/100M Fast Ethernet.
- Support wake-on-LAN function.
- Supported protocol such as TCP/IP, UDP, SNMP, SMTP, SNTP, HTTP and so on.
- > Support to record and export event log, including warnings and faults.
- > Support daily reports for event log and data log.
- > Support parallel-inverter monitoring.

1.3 Overlook



Ethernet port(10/100Base-T)
RS-232 port
5Vdc DC input
Data receiving indicator
Data transmission indicator
Power indicator

Ethernet port status LEDs:

100M LED (Green)	Flash	Port is operating at 100Mbit/s
	Off	Card is not connected to the network
10M LED (Yellow)	Flash	Port is operating at 10Mbit/s
	Off	Card is not connected to the network

1.4 Connection

Use one Ethernet cable to connect to Ethernet port (①) of the box. Use one RJ45 cable to connect to RS-232 port (②) of the box and RS-232 port of the inverter. Then, use bundled USB cable to connect to USB port (③) of the

box and 5V DC USB power source.

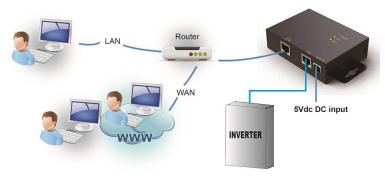


Chart 1-1

1.5 Configuration

a) Please install SNMP web manager software in your PC. After software is installed successfully, the Installer will leave a shortcut icon on your desktop.



b) Enter specific IP address to search all SNMP devices in LAN. (The SNMP web manager will automatically collect the IP address from sever by default via a DHCP server. It will apply default IP address of 192.168.102.230, default subnet mask as 255.255.255.0, and default gateway as 0.0.0.0 without a DHCP server.

IP address	MAC address	Basic Info	ottinge	Online upgrade	System manager	Static trap address	SMS
92.168.107.129 SNMP status: 1	60-19-29-00-A2-9F	IP address MAC address	192.16	8.107.129			
192.168.107	Scan Add Del	Output window-	3.107.129	I Online successfi	IIIy.		

Chart 1-3

c) User can modify IP setting, online upgrade, password management, and static trap address setting in SNMP Web Manager screen. It is necessary to enter password for any modifications. The default password is 12345678.

Please check SNMP Web Manager User Manual for detailed configuration.

1.6 Monitoring

There are two ways to monitor:

a) Double click the selected device from the device list (refer to Chart 1-5) to open web page as Chart 1-4.

			Status		
Information	Work Status				
Status Basic information	Battery status:	Charging	SCC status:	Charging	
	AC charging status:	Charging	Load status:	Connected	
Setting	AC input status:	Connected			
Parameters setting					
Parallel	Work Data				
55355535553555 System configuration	AC input voltage:	229.6 V	AC output voltage:	229.6 V	
Web	AC input frequency:	49.9 Hz	AC output frequency:	49.9 Hz	
E-mail	PV input voltage:	51.8 V	AC ouput apparent power:	2075 VA	
System time	Battery voltage:	51.80 V	AC output active power:	2075 W	
SNMP configuration	Battery capacity:	95 %	Output load percent:	51 %	
Log	Battery discharge current:	0 A 0	PV charging power:	155 W	
Event log Data log	Battery charge current:	10 A	Working mode:	Line mode	
Help					
Serial Port Debug					
Senar Fort Debug					

Chart 1-4

b) Installed WatchPower software to monitor SNMP devices. Refer to Chart 1-5. Please check WatchPower User Manual for detailed monitoring.

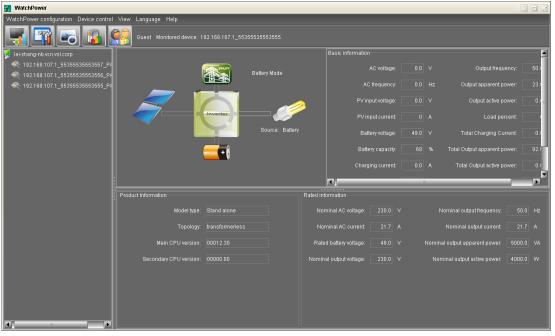


Chart 1-5

2. SNMP Web GUI

SNMP web GUI includes function menu, login section and main screen. Refer to Chart 2-1:

 	SMMP Web Server - Windows Inte	ernet Explorer						
Wate ● SIMP Web for Off-Grid Inverter 1.0 A Status D Basic information Battery status: Charging Status Battery status: Charging Basic information AC charging status: Charging Parameters setting AC input status: Connected Parameters setting AC input status: Connected Vork Data Work Data Web E-mail Stystem configuration Work Data Web E-mail SNMP Configuration Battery status: file 0 SNMP Configuration Battery status: Connected Web E-mail System time SIM Profiguration Battery status: file 0 PV input voltage: file 0 V SNMP Configuration Battery status: file 0 Up Battery status: file 0 Signer time Battery status: file 0 Signer time Battery status: file 0 Battery status: file 0 AC output status: file 0 Battery status: file 0 Battery status: file 0 Battery status: file 0 A Battery status: file 0 A <t< th=""><th>🗩 💽 🔻 🙋 http://192.168.107.1/</th><th></th><th>💌 🗟 🐓 🗙 📴 Bing</th><th>P</th></t<>	🗩 💽 🔻 🙋 http://192.168.107.1/		💌 🗟 🐓 🗙 📴 Bing	P				
SMPL Yeb Server Image: Some of the server SNMP Web for Off-Grid Inverter 1.0 A Information Basic information Setting Battery status: Charging AC charging status: Charging AC charging status: Charging AC charging status: Connected Parameters setting Parameters setting Parallel 533555555555 System configuration Web E-mail System time SMP configuration Battery charge: 51.8 V AC output voltage: 29.6 V Web E-mail System time SMP configuration Battery charge: 51.8 V AC output voltage: 29.6 V Battery tatus: former: 0 A Durput total Control trequency: 49.9 Hz Battery tatus: former: 0 A PV input voltage: 51.8 V AC output frequency: 49.9 Hz Battery charge: 51.8 V AC output achiese: 2075 VA Battery charge: 51.8 V AC output achiese power: 2075 W Battery charge: 0.1 A PV charging power: 155. W Battery charge: 0.1 A PV charging power: 155. W Battery charge current: 10 A Working mode Line mode	文件(2) 編編(2) 査吾(2) 收線夫(4) 工具(2) 帮助(2)							
SMPL Yeb Server Image: Some of the server SNMP Web for Off-Grid Inverter 1.0 A Information Basic information Setting Battery status: Charging AC charging status: Charging AC charging status: Charging AC charging status: Connected Parameters setting Parameters setting Parallel 533555555555 System configuration Web E-mail System time SMP configuration Battery charge: 51.8 V AC output voltage: 29.6 V Web E-mail System time SMP configuration Battery charge: 51.8 V AC output voltage: 29.6 V Battery tatus: former: 0 A Durput total Control trequency: 49.9 Hz Battery tatus: former: 0 A PV input voltage: 51.8 V AC output frequency: 49.9 Hz Battery charge: 51.8 V AC output achiese: 2075 VA Battery charge: 51.8 V AC output achiese power: 2075 W Battery charge: 0.1 A PV charging power: 155. W Battery charge: 0.1 A PV charging power: 155. W Battery charge current: 10 A Working mode Line mode								
Off-Grid Inverter 1.0 A D Logot Administrator Information B Status Basic information Setting Parallel 53355535555 System configuration Web E-mail SMP configuration Web E-mail SMP configuration SMP configuration Battery charge 51.8 V AC output voltage: 229.6 V AC output voltage: 229.6 V Vork Data Vork Data Vork Data Vork Data System time SMP configuration Battery claracity; 95 % Output load precenc; 91.9 9 Hz AC output voltage: 275 V Log Battery claracity; 95 % Output load precenc; 51 % Battery claracity; 95 % Log Battery claracity; 95 % Output load precenc; 51 % Battery claracity; 95 % Output load precenc; 51 % Battery claracity; 95 % Battery claracity; 95 % Output load precenc; 51 % Battery claracity; 95 % Battery claracity; 95 % Output load precenc; 51 % Battery claracity; 95 %			🏠 🔹 🗟 👘 🖃 🍓 🔹 页面 🕑 🚽 安全(5)・工具(0)・ 🧃				
B Status Basic information Setting Parameters setting AC charging status: Charging Parameters setting AC input status: Connected System configuration Work Data Web E-mail System time S18 V SMMP configuration AC input voltage: 51.8 V Number of Battery voltage: 51.8 V AC output depreent: 51 % Battery discharge current: 10 A PV charging power: 155 W Battery discharge current: 10 A Working mode: Line mode		А	Status D Logout Adminis	trator				
Status Battery status: Charging SCC status: Charging Basic information AC charging status: Charging SCC status: Charging Parameters setting AC input status: Connected Parameters setting AC input status: Connected System configuration Work Data Web E-mail System time S1.8 V SNMP configuration AC input voltage: 51.8 V Log Battery charge current: 10 A Battery charge current: 10 A Working mode: Line mode		Work Status						
Sotting AC charging status: Charging Load status: Connected Parameters setting AC input status: Connected AC input status: Connected Parallel Sotting AC input status: Connected 5335653655 AC input voltage: 229.6 V AC output voltage: 229.6 V Work Data AC input voltage: 29.9 Hz AC output frequency: 49.9 Hz System time PV input voltage: 51.8 V AC output apparent power: 2075 VA SNMP configuration Battery charge current: 0 AC output doal power: 155 W Event log Data log Battery charge current: 10 A Help Working mode. Line mode	Status	Battery status: Charging	SCC status: Charging					
Parameters setting AC input status: Connected Parallel 5535555555555 System configuration Web E-mail System configuration SNMP configuration Log Battery clarge current: 0 Battery discage current: 0 Battery charge current: 10 AC input status:		AC charging status: Charging	Load status: Connected					
Parallel Work Data 5535555555 AC input voltage: 229.6 V AC output voltage: 229.6 V Web AC input voltage: 249.9 Hz AC output frequency: 49.9 Hz Web PV input voltage: 51.8 V AC output apparent power: 2075 VA SNMP configuration Battery classic: 51.8 V AC output apparent power: 2075 VA Battery classic: 51.80 V AC output apparent power: 2075 W Battery classic: 51.80 V AC output apparent power: 2075 W Battery classic: 51.80 V AC output apparent power: 2075 W Battery classic: 51.80 V AC output apparent power: 2075 W Battery classic: 51.80 V AC output load percent: 51.80 V Battery classic: 51.80 V AC output load percent: 51.80 V Battery classic: 0 A PV charging power: 55 W Battery classic: 0 A PV charging power: 15 W Help Help A Working mode: Line mode		AC input status: Connected						
S5355555555 Work Data System configuration AC input voltage: 229.6 V Web AC input voltage: 229.6 V E-mail PV input voltage: 51.8 V System time S1 NIP configuration SNMP configuration Battery voltage: 51.8 V Log Battery voltage: 51.8 0 V Event log Battery capacity: 95 % Output load percent: 0 A Battery charge current: 0 A Help Battery charge current: 10	•							
System configuration AC input voltage: 229.6 V AC output voltage: 229.6 V Web AC input voltage: 229.6 V AC output voltage: 229.6 V BE-mail PV input voltage: 51.8 V AC output frequency: 49.9 Hz System time Battery voltage: 51.8 V AC output apparent power: 2075 VA SNMP configuration Battery voltage: 51.8 V AC output active power: 2075 W Log Battery claracity: 95 % Output load percent: 51 % Event log Battery charge current: 0 A PV charging power: 155 W Help Battery charge current: 10 A Working mode: Line mode		Work Data						
Web AC input frequency: 49.9 Hz AC output frequency: 49.9 Hz E-mail PV input voltage: \$1.8 V AC output frequency: 49.9 Hz System time PV input voltage: \$1.8 V AC output apparent power: System time Battery voltage: \$1.8 V AC output apparent power: Battery voltage: \$1.8 V AC output apparent power: 2075 VA SNMP configuration Battery capacity: 95 % Output load percent: 51 % Log Battery cischarge current: 0 A PV charging power: 155 W Event log Battery charge current: 10 A Working mode: Line mode		AC input voltage: 229.6 V	AC output voltage: 229.6 V					
E-mail PV input voltage: 51.8 V AC output apparent power: 2075 VA System time Battery voltage: 51.80 V AC output apparent power: 2075 VA SNMP configuration Battery configuration Output load percent: 51 % Log Battery discharge current: 0 A PV charging power: 155 W Event log Battery charge current: 10 A PV charging mode: Line mode		AC input frequency: 49.9 Hz	AC output frequency: 49.9 Hz					
SNMP configuration Battery capacity: 95 % Output load percent: 51 % Log Battery discharge current: 0 A PV charging power: 155 W Event log Battery charge current: 10 A Working mode: Line mode Help Battery charge current: 10 A Working mode: Line mode		PV input voltage: 51.8 V	AC ouput apparent power: 2075 VA					
Log Datery departy. Dr A Origin to generation Event log Battery departy. Dr A PV charging power. 155 W Data log Battery charge current: 10 A PV charging power. 155 W Help Battery departy. Dr A Working mode: Line mode		Battery voltage: 51.80 V	AC output active power: 2075 W					
Event log Data log Battery discharge current: A P V charging power, 15 v V Help Battery charge current: 10 A Working mode: Line mode		Battery capacity: 95 %						
Data log Data log Overlage current. To A Overlage current and a curr		Battery discharge current: 0 A	PV charging power: 155 W					
Help		Battery charge current: 10 A	Working mode: Line mode					

Chart 2-1

- A .SNMP web GUI version
- B .Function Menu

It offers complete tool-set for navigation and setting the GUI.

C .Main Screen

It will display information and/or control alternatives according to function menu selected.

D. Login section

It shows user type for current login user. The default password for administrator is "12345678".

3. Function Menu

3.1 Information

3.1.1. Status

Select Information >> Status. Refer to Chart 3-1. It's shown real-time monitored off-grid inverter data including working status and data. Working data includes input information, output information, device mode and battery information in table format.

Information	Work Status				
Status	Battery status:	Charging	SCC status:	Charging	
Basic information	AC charging status:	Charging	Load status:		
Setting	AC input status:	Connected			
Parameters setting					
Parallel	Work Data				
55355535553555 ystem configuration	AC input voltage:	229.6 V	AC output voltage:	229.6 V	
Web	AC input frequency:	49.9 Hz	AC output frequency:	49.9 Hz	
E-mail	PV input voltage:	51.8 V	AC ouput apparent power:	2075 VA	
System time	Battery voltage:	51.80 V	AC output active power:	2075 W	
SNMP configuration	Battery capacity:	95 %	Output load percent:	51 %	
Log	Battery discharge current:	0 A	PV charging power:	155 W	
Event log Data log	Battery charge current:	10 A	Working mode:	Line mode	
Help					
Serial Port Debug					
contain on booking					

Chart 3-1

3.1.2. Basic information

Select Information >> Basic information. It includes product information and rated information. Refer to Chart 3-2.

NMP Web for Grid Inverter 1.0		Basic information Logout Administrator
Information	Product information	
Status	Model type: Stand alone	Main CPU version: 00012.30
Basic information	Topology: transformerless	Secondary CPU version: 00012.30
Setting	Topology: transformeness	Secondary CPO Version: 00006.06
Parameters setting		
Parallel	Rated information	
55355535553555	Nominal AC input voltage: 230.0 V	Nominal AC output frequency: 50.0 Hz
stem configuration	Nominal AC input current: 21.7 A	Nominal AC output current: 21.7 A
Web	Rated battery voltage: 48.0 V	Nominal AC output apparent power: 0.0 VA
E-mail	Nominal AC output voltage: 230.0 V	Nominal AC output active power: 4000 W
System time SNMP configuration		
Log		
Event log		
Data log		
Help		
Serial Port Debug		

Chart 3-2

3.2 Setting

3.2.1 Parameters setting

Some functions can be set and changed via software. Parameter setting includes voltage and frequency setting, status setting and restore to the default setting.

Select Setting >> Parameters setting. Refer to Chart 3-3.

Information Status Basic information Status Basic information Setting Parameters setting Parameters setting Deveload bypass: Exclipti: Status Status Basic information Setting Parameters setting Parameters setting Status Status Status Status Status Status Deveload bypass: Deveload bypass: Deveload auto restat: Status Status Status Basic information Status Covertoad bypass: Covertoad bypass: Covertoad bypass: Covertoad bypass: Status System time SNMP configuration Log Event log Data log Help Parallel Solution Data log <
Serial Port Debug Output mode: Phase R of 3phase output v Apply Max AC charging current: 10 A Apply Charger source priority: Utility and Solar Apply Max charging current: 10 A Apply Restore to the defaults Restore to the defaults

Chart 3-3

Note: Different inverter model may access different parameter setting.

- 1. Select the functions by clicking "Enable" or "Disable" button. Change the numbers by clicking up-down arrows or modify the numbers directly in the number column.
- 2. Click "Apply" button to save the settings. Each function setting is saved by clicking "Apply" button in each section.
- 3. Click "Restore to the defaults" button to set control parameter to default value.
- 4. Before setting value in Battery cut-off voltage, Bulk charging voltage and Floating charging voltage columns, it's necessary to set Battery type as "user".
- 5. Please check parallel setting for detailed set up.

Note: Any functions which are not supported by current inverter will not be able to access.

- > Buzzer alarm: If enabled, buzzer will be activated. Vice versa.
- Power saving mode: If enabled, power saving mode will be activated. Vice versa.
- > Backlight: If enabled, LCD backlight will be activated. Vice versa.
- Overload auto restart: If disabled, the inverter will automatically restart when overload occurs. Vice versa.
- Over temperature auto restart: If enabled, the inverter will automatically restart when over temperature occurs. Vice versa.
- Beeps while primary source interrupt: If enabled, alarm will sound when primary source is interrupted. Vice versa.
- Overload bypass: If enabled, the inverter will bypass AC input when overload occurs. Vice versa.
- LCD returns to default display after 1 min: If enabled, the LCD will automatically return to default page when any button is not pressed for 1 minute. Vice versa.
- Solar power balance: When enabled, PV input power will be automatically adjusted according to connected load power. If disabled,

PV input power will be the same to max. battery charging power no matter how much loads are connected.

- Output source priority: There are 3 options: utility first, solar first and SBU. If "SBU" is selected, solar power will supply power to the load first. When solar power is not sufficient, battery power will supply the load. When battery power is running out, utility will be the power source for the load.
- AC input range: There are two options: appliance and UPS. Please select proper device you want to connect to the inverter. Please check the acceptable AC input range in inverter spec.
- Output frequency: Nominal output frequency, 50Hz and 60Hz selectable.
- Battery re-charge voltage: Click up-down arrow to set up battery re-charge voltage point. If "SBU" is selected in output source priority, the inverter will transfer output source to utility when battery voltage drop to battery re-charge voltage point.
- Battery re-discharge voltage: When battery voltage is higher than this setting voltage, battery will be allowed to discharge.
- Battery type: Please select battery type. There are three options: AGM, Flooded and User(user-defined). If "User" is selected, you can set the following voltages.
 - ♦ Battery cut-off voltage: Setting range is $40.0 \text{ V} \sim 48.0 \text{ V}$.
 - \diamond Bulk charging voltage: Setting range is 48.0 V~ 58.4 V.
 - ♦ Floating charging voltage: Setting range is 48.0 V~58.4 V.

Parallel Setting: If there are more than 2 inverter operated in parallel, please configure these 4 parameters in each inverter: output mode, charger source priority, max. AC charging current and max. charging current. Refer to chart 3-3. Please follow below steps for the details.

Step 1: Click "Parallel \rightarrow Machine ID" in function menu to access parallel setting for each unit. Refer to Chart 3-4.

SNMP Web for Off-Grid Inverter 1.0		Parameters setting Logout Administrator
Information Status Basic information Setting Parameters setting Parameters setting 55355535553555 55355535553555 System configuration Web E-mail System time SMMP configuration Log Event log Data log Help Serial Port Debug	Buzzer alarm: ⊙ Enable ○ Disable Apply Power saving mode: ○ Enable ○ Disable Apply Backlight: ⊙ Enable ○ Disable Apply Overload uto restart: ○ Enable ○ Disable Apply Over temperature auto restart: ○ Enable ○ Disable Apply Output source priority: Utility ▲ Apply AC input range Appliance ▲ Apply Battery type: User ▲ Apply Battery cut-off voltage: 42.0 V Apply Output mode: Phase R of 3phase output ▲ Apply Charger source priority: Utility and Solar ▲ Apply	Beeps while primary source interrupt: ○ Enable ○ Disable Apply Overload bypass: ○ Enable ○ Disable Apply LCD returns to default display after 1 mir: ○ Enable ○ Disable Apply Solar power balance: ○ Enable ○ Disable Apply Solar power balance: ○ Enable ○ Disable Apply Output frequency: 50 ▼ Hz(Apply) Battery re-charge voltage: 56.5 ↓ (Apply) Battery re-discharge voltage: 56.5 ↓ (Apply) Floating charging voltage: 56.5 ↓ (Apply) Floating charging voltage: 54.0 ↓ (Apply) Max.AC charging current: 10 ↓ (Apply) Max charging current: 10 ↓ (Apply) Restore to the defaults

Chart 3-4

Then, it will show detailed information of this inverter. Refer to Chart 3-5.

2	No. of the second se		
SNMP Web for Off-Grid Inverter 1.0			Logout Administrator
Information	AC input status: Disconnected		-
Status Basic information	Grid information		_
Setting	Grid voltage: 0.0V	Grid frequency:0.00Hz	
Parameters setting	Ond voltage.0.0V	Ghd liequency.0.00Hz	
Parallel			
55355535553555	AC and PV information		
55355535553557	AC output voltage:230.0V	AC output frequency 50.0Hz	
55355535553556	AC output apparent power:46VA	AC output active power 0VA	
System configuration	PV input voltage:0.0V	Max AC charger current: 10A	
Web	PV input current for battery:0A		
E-mail			
System time	Battery information		
SNMP configuration			
Log	Battery voltage 49.4V	Battery charging current: 0A	
Event log	Battery capacity: 72%	Battery discharging current:0A	
Data log	Max charger current: 10A	Max charger range: 110A	
Help			
Serial Port Debug	Total information		
	Total charging current:0A	Total AC output apparent power: 137VA	
	Total output active power:0VA	Total AC output percentage:0%	
	Fault event		
	0		
			~

Chart 3-5

Step 2: At this time, click "Parameter Setting" again. Although it looks like same screen as Chart 3-4, it's ok to set up "parallel setting" for selected inverter. Refer to Chart 3-6.

NOTE: The remaining setting are applied for all inverters.

SNMP Web for Off-Grid Inverter 1.0	Parameters setting Logout Administrator
Information Status Basic information Setting Parameters setting Parallel 553553553553553553553553553553553553553	Buzzer alarm: O Enable O Disable Apply Power saving mode: O Enable O Disable O D Disable O Disable O D D D D D D D D D D D D D D D D D D
Data log Holp Serial Port Debug	Parallel setting: Output model Phase R of 3phase output v Apply Output model Phase R of 3phase output v Apply Max AC charging current: 10 A Apply Charger source priority Utility and Solar v Apply Max Ac charging current: 10 A Apply Restore to the defaults Restore to the defaults

Chart 3-6

- Output Mode: Only when the inverter is turned off, this setting is able to set up. The options will be different based on different inverter models.
 Single: This inverter is set for singe operation.
 - Parallel: This inverter is set for parallel operation.
 - Phase R of 3 phase output: This inverter is set to support connected loads in phase R of 3-phase output.
 - Phase S of 3 phase output: This inverter is set to support connected loads in phase S of 3-phase output.
 - Phase T of 3 phase output: This inverter is set to support connected loads in phase T of 3-phase output.
- Charger source priority: There are 4 options: utility first, solar first,

solar and utility and Solar only. If "solar first" is selected, solar power will become first charging source.

- Max.AC charging current: Click up-down arrow to set up AC charging current. For the detailed setting, please check inverter manual.
- Max. charging current: Click up-down arrow to set up maximum charging current. Maximum charging current in different inverter model may be different. Please refer to product manual for the details.

3.3 Parallel

3.3.1 Machine ID

If the inverter is parallel model, you can browse information of all parallel models by clicking each ID under parallel menu. Refer to Chart 3-7

SNMP Web for Off-Grid Inverter 1.0			
On-Gha inverter 1.0		Parallel inform	ation Logout Administrator
Information	AC input status: Disconnected		<u>^</u>
Status Basic information	Grid information		
Setting	Grid voltage: 0.0V	Grid frequency: 0.00Hz	
Parameters setting	Gild Voltage. U. UV	Gita inequency. 0.0012	
Parallel	AC and PV information		
55355535553555	AC and PV Information AC output voltage:230.0V	AC output frequency: 50.0Hz	
5535553553557 55355535553556	AC output voltage.250.0V AC output apparent power:46VA	AC output irequency. 50.0H2 AC output active power: 0VA	
System configuration	PV input voltage: 0.0V	Max AC charger current: 10A	
Web	PV input current for battery: 0A	Max AC charger current. TOA	
E-mail	PV input current for battery UA		
System time			
SNMP configuration	Battery information		
Log	Battery voltage:49.4V	Battery charging current: 0A	
Event log	Battery capacity: 72%	Battery discharging current: 0A	=
Data log	Max charger current: 10A	Max charger range: 110A	
Help			
Serial Port Debug	Total information		
	Total charging current:0A	Total AC output apparent power: 137VA	
	Total output active power: 0VA	Total AC output percentage: 0%	
	Fault event		
	Π		
	μ		

Chart 3-7

3.4 System configuration

3.4.1 Web

It configures the authority to access SNMP webpage. Please enter access ID and password in each column. There is no any limitation to access control in default setting. Refer to Chart 3-8.

Information Status Basic information Setting Parameters setting Parallel 5335533553 System configuration Weil E-mail System time System time SNMP configuration Log Event log Data log Help Serial Port Debug	Off-Grid Inverter 1.0			Web	Logout Administra
Status User Name Password Permission Operation Parameters setting user a No Access v Apply Delete Parallel a No Access v Apply Delete 553555355355355355355355355355355355355	Information				
Setting user No Access Apply Delete Parameters setting Image: Control of the set	Status		Password	Permission	Operation
Parameters setting No Access Apply Delete Parallel No Access Apply Delete S53565365355555 No Access Apply Delete System configuration No Access Apply Delete Weil E-mail System time SNMP configuration No Access Apply Delete Event log Data log Help Help Help Apply Delete		user		No Access 🛩	Apply Delete
Parallel No Access Apply Delete 55355535555 No Access Apply Delete Wed No Access Apply Delete System configuration No Access Apply Delete Wed No Access Apply Delete System time SNMP configuration No Access Apply Delete Event log Data log Help Help Help				No Access 💙	Apply Delete
55335553555 System configuration Web E-mail System time SNMP configuration Log Event log Data log Help				No Access 🗸	Apply Delete
System configuration Web E-mail System time SNMP configuration Log Event log Data log Help	55355535553555			No Access 🗸	
	Log Event log Data log Help				

Chart 3-8

3.4.2 E-mail

It's allowed to send alarm mail by SMTP server. To use this function, the e-mail service must be correctly configured. All values in this function page are default empty. This action can't be executed without the SMTP information, e-mail account and password. Besides, the sender account should be allowed for SMTP/POP3 forwarding.

Select System Configuration >> E-mail. Refer to Chart 3-9

SNMP Web for Off-Grid Inverter 1.0	E-mail Logout Administrator
Information Status Basic information Setting Parameters setting Parallel 553555355535555 System configuration Web E-mail System time SMMP configuration	SMTP server: smtp.test.com Password get back Email: Apply Delete Pot: 25 back Email: Apply Delete Send from:
Log Event log Data log Holp Serial Port Debug	Recipient's Email Address (for Daily Report) Account 1: Apply Delete Account 2: Apply Send Email for Daily Report (hh.mm): at 12:00 Send Email when Event Log overflows (100 records): Implies Send Email when Data Log overflows (500 records): Implies Apply Apply

Chart 3-9

- 1. Enter SMTP server, SMTP port, sender's E-mail address, user name and password. Click checkbox of "Need Auth" for password verification.
- 2. Click "Apply" to save the changes. The "Test" button can be used to send a test e-mail to all receivers to confirm correct operation. When the test e-mails are successfully sent to specific recipients, it will pop up a successful message on operated PC. Otherwise, it will pop up a failure dialog to indicate there is an error in setting.
- 3. Enter correct e-mail accounts in Recipient section. Then, click "Apply" to add into receivers list. Click "Delete" button to delete e-mail

account.

4. Daily report will be sent to setting recipients by e-mail at specific time everyday. Please enter recipient's email address and receiving time into columns. Then, click "Apply" button to confirm. Setting recipients also receive alarm e-mail when event log exceeds 100 or data log exceeds 50 records by clicking each checkbox.

3.4.3 System time

Select System Configuration >> System time. Refer to Chart 3-10.

SNMP Web for Off-Grid Inverter 1.0		System time	Logout Administrator
Information Status Basic information Setting Parameters setting Parameters setting Parallel 5535533553555 System configuration Web E-mail SIVMP configuration Log Event log Data log Help Serial Port Debug	Automatic time correction interval: 12 Hours ♥ Time server: time windows.com Time Zone(Relative to GMT): GMT ♥♥ Applying daylight saving time: No ♥ Adjust now >> Adjust now >> System Time (mm/dd/yyyy hh:mm:ss): 02/12/2014 00:35:03 Apply Auto Restart System for Every (0: Disable): 0 Minute(s) Apply Manual Restart System After 30 Seconds. Apply		

Chart 3-10

- Automatic time correction interval: There are five options: No, 1 hour, 12 hours, 1 day and 1 week. When interval is selected, it will automatically calibrate time.
- Time server: Please enter SNTP server IP address or domain name of time server.
- Time Zone: Select time zone based on GMT.
- Applying daylight saving time: Please choose "Yes" when your time zone is applying daylight saving time.
- System Time (mm/dd/yyyy hh:mm:ss): It is to set up SNMP web local time. Please be sure to set up correctly so that time of event log and data log will be correctly recorded.
- Auto Restart system for Every (0: Disable): XX Minute(s)
- Manual Restart system after 30 Seconds: When click "Apply" button, SNMP will restart after 30 seconds.

3.4.4 SNMP configuration

Setting SNMP basic information such as IP address, password, trap IP address, SNMP UDP port and Restore the factory settings.

Note: Some operations will cause SNMP to reboot. It's normal operation.

Select System Configuration >> SNMP configuration. Refer to Chart 3-11.

SNMP Web for				
Off-Grid Inverter 1.0			SNMP configuration	Logout Administrator
		Apply		^
Information				
Basic information	Password			
Setting	Old password:			
Parameters setting	New password:			
Parallel	Confirm password:			
55355535553555 System configuration	· · · · · · · · · · · · · · · · · · ·	Apply		
System configuration Web				
E-mail	Trap IP address			
System time SNMP configuration	Trap IP address 1:	192.168.107.50 A	pply Delete	
Log	Trap IP address 2:	0.0.0.0 A	pply Delete	
Event log Data log	Trap IP address 3:	0.0.0.0 A	pply Delete	
Help	Trap IP address 4:	0.0.0.0 A	pply Delete	
Serial Port Debug				
	SNMP UDP port*			
	SNMP port:	161 Ap	ply	
	Trap receive port:	162 Ap	ply	
	Restore the factory settings*			
	Confirm restore factory settings?	Restore		
				~

Chart 3-11

- IP address: There are two methods to obtain IP address
 - Automatically obtain IP address (DHCP, default setting) The system will default automatically obtain IP addresses. If there is no this kind of service provided in LAN, the default IP will display as "192.168.102.230", Net mask as "255.255.255.0" and default gateway as "0.0.0.0".
 - 2. Use a static IP address Enter a static IP address.
- Password: Modify the password. The length of password is 8~15 digits.
- Trap IP address: The SNMP device could provide 4 static trap addresses.
- SNMP UDP port: You may change SNMP port and trap port.
- Restore the factory settings: Click "Restore" button to restore to factory default settings.

Note: The system will default automatically obtain IP address and default Password is 12345678.

3.5 Log

3.5.1 Event log

In the Event Log window, it lists all history events and can be saved as .csv file. The event log includes warnings, fault information and EMD warnings. Refer to Chart 3-12.

Select Log >> Event log.

SNMP Web for Dif-Grid Inverter 10 Event log Loout Administrator Information 1 Status Basic Information Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Status Dif Time Event name O2/12/2014 00:00:50 The device communication has been lost Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Parameters setting Colspan="2" Colspan="2"					
Information 1 Status 1 Basic information 02/12/2014 00:00:50 The device communication has been lost Parameters setting 02/12/2014 00:00:36 Connect to time server error System configuration Veb System configuration Web E-mail System configuration System time System time System time System time Solution Solution Event log Solution Solution Basic information Solution Solution					
Information 1 Status Basic information Setting 02/12/2014 00:00:50 The device communication has been lost Parameters setting 02/12/2014 00:00:36 Connect to time server error Parallel 02/12/2014 00:00:36 Connect to time server error System Configuration Web	Off-Grid Inverter 1.0			Event log	Logout Administrator
Status Time Event name Basic information 02/12/2014 00:00:50 The device communication has been lost Optimized and the server error 02/12/2014 00:00:36 Connect to time server error Parallel 02/12/2014 00:00:36 Connect to time server error System configuration 02/12/2014 00:00:36 Connect to time server error Web 02/12/2014 00:00:36 Connect to time server error System configuration 02/12/2014 00:00:36 Connect to time server error System configuration 02/12/2014 00:00:36 Connect to time server error Status 02/12/2014 00:00:36 Connect to time server error System configuration 02/12/2014 00:00:36 Connect to time server error Status 02/12/2014 00:00:36 Connect to time server error Web 02/12/2014 00:00:36 00/12/2014 00:00:36 System time 02/12/2014 00:00:36 00/12/2014 00:00:36 Status 02/12/2014 00:00:36 00/12/2014 00:00:36 Event log 00/12/2014 00:00:36 00/12/2014 00:00:36 Event log 00/12/2014 00:00:36 00/12/2014 00:00:36 Belp 00/12/2014 00:00:36 00/12/2014 00:00:36					
Basic Information 02/12/2014 00:00:50 The device communication has been lost Setting 02/12/2014 00:00:36 Connect to time server error Parallel 02/12/2014 00:00:36 Connect to time server error System comfiguration 02/12/2014 00:00:36 Connect to time server error Web Email 02/12/2014 00:00:36 Connect to time server error System comfiguration Connect to time server error Connect to time server error Switem time Connect to time server error Connect to time server error Switem time Connect to time server error Connect to time server error Switem time Connect to time server error Connect to time server error Switem time Connect to time server error Connect to time server error Switem time Connect to time server error Connect to time server error Switem time Connect to time server error Connect to time server error Switem time Connect to time server error Connect to time server error Switem time Connect to time server error Connect to time server error Switem time Connect to time server error Connect to time server error Switem time Connect to time server error Connect to time server error Switem time Connect to time server erro	Information		1		
Setting 02/12/2014 00:00:30 The device communication has been lost Parameters setting 02/12/2014 00:00:36 Connect to time server error Parallel 53356535655 System configuration Web E-mail SNMP configuration Log Bewent log Help		Time		ent name	
Parameters setting Out DECR POCOUSE Parallel Out DECR POCOUSE 5535553555 Out DECR POCOUSE System configuration Out DECR POCOUSE Veb Out DECR POCOUSE E-mail Out DECR POCOUSE System configuration Out DECR POCOUSE System time Out DECR POCOUSE SNP configuration Out DECR POCOUSE E-mail Out DECR POCOUSE SNP configuration Out DECR POCOUSE Decret to the Solid Action Out DECR POCOUSE SNP configuration Out DECR POCOUSE SNP configuration Out DECR POCOUSE Decret to the Solid Action Out DECR POCOUSE SNP configuration Out DECR POCOUSE Bege Out DECR POCOUSE <td< td=""><td></td><td>02/12/2014 00:00:50</td><td>The device communication has been lost</td><td></td><td></td></td<>		02/12/2014 00:00:50	The device communication has been lost		
Parallel 553553555 System comfiguration SWP configuration SWP configuration Event log Event log Help		02/12/2014 00:00:36	Connect to time server error		
55355355555 System configuration Web E-mail System time SNMP configuration Log Event log Data log Help					
System configuration Web E-mail System time SNMP configuration Log Event log Data log Help					
Web E-mail System time SNMP configuration Log Event log Data log Help					
E-mail System time SNMP configuration Log Event log Data log Help	System configuration				
System time SIMP configuration Log Event log Data log Help					
SNMP configuration Log Event log Data log Help					
Log Event log Data log Help	SNMP configuration				
Event log Data log Heip					
Data log Help					
	Data log				
Serial Port Debug	Help				
	Serial Port Debug				
		1	1		
Clear Save as					Clear Save as

Chart 3-12

3.5.2 Data Log

In the Data Log window, it will list all history logs and can be save as .csv file. Refer to Chart 3-13.

Select Log >> Data log.

Grid Inverter 1.0					Data I	og Logout	Administrator
Information				1			
Status	Time	Input voltage(V)	Output voltage(V)	Output frequency(Hz)	Load(%)	Battery voltage(V)	Temp.(°C)
Basic information	02/12/2014 00:35:26	52.8	230.3	50.0	52	51.9	50.0
Setting	02/12/2014 00:34:26	56.4	228.1	50.0	51	51.9	50.0
arameters setting	02/12/2014 00:33:25	51.8	229.2	50.0	51	51.8	49.0
Parallel	02/12/2014 00:32:24	51.8	229.7	50.0	52	51.8	49.0
55355535553555	02/12/2014 00:31:24	51.8	228.4	50.0	51	51.8	49.0
stem configuration	02/12/2014 00:30:24	51.8	228.8	50.0	51	51.8	49.0
Web	02/12/2014 00:29:24	0.0	0.0	0.0	0	0.0	0.0
E-mail System time							
VMP configuration							
Log							
Event log							
Data log							
Help							
Serial Port Debug							

Chart 3-13

3.6 Help

3.6.1 Serial Port Debug

It's to useful tool to verify communication problems between SNMP web box and device. Users can send commands in this webpage and it will get query result from output window. It will help technical support personnel to verify problems.

Select Log >> Event log. Refer to Chart 3-14.

Information Status Basic information Setting Parameters setting Parallel 55355355355 System time SNMP configuration Log Event log Data log Help Serial Port Debug	SNMP Web for Off-Grid Inverter 1.0		Se	rial Port Debug	Logout Administrator
Clear	Status Basic information Setting Parameters setting Parameters setting Statistic Statistics System configuration Web E-mail System time SNMP configuration Log Event log Data log Help			Send	

Chart 3-14