















## 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.

The screenshot shows the 'Status' page of the SNMP Web for Off-Grid Inverter 1.0. The left sidebar contains a navigation menu with options: Information, Status, Basic information, Setting, Parameters setting, Parallel, System configuration, Web, E-mail, System time, SNMP configuration, Log, Event log, Data log, Help, and Serial Port Debug. The main content area is titled 'Status' and includes a 'Logout Administrator' link. It displays two tables:

Battery status:	Charging	SCC status:	Charging
AC charging status:	Charging	Load status:	Connected
AC input status:	Connected		

AC input voltage:	229.6 V	AC output voltage:	229.6 V
AC input frequency:	49.9 Hz	AC output frequency:	49.9 Hz
PV input voltage:	51.8 V	AC output apparent power:	2076 VA
Battery voltage:	51.80 V	AC output active power:	2075 W
Battery capacity:	95 %	Output load percent:	51 %
Battery discharge current:	0 A	PV charging power:	155 W
Battery charge current:	10 A	Working mode:	Line mode

Chart 3-1

#### 3.1.2. Basic information

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

The screenshot shows the 'Basic information' page of the SNMP Web for Off-Grid Inverter 1.0. The left sidebar contains a navigation menu with options: Information, Status, Basic information, Setting, Parameters setting, Parallel, System configuration, Web, E-mail, System time, SNMP configuration, Log, Event log, Data log, Help, and Serial Port Debug. The main content area is titled 'Basic information' and includes a 'Logout Administrator' link. It displays two tables:

Model type:	Stand alone	Main CPU version:	00012.30
Topology:	transformerless	Secondary CPU version:	00006.06

Nominal AC input voltage:	230.0 V	Nominal AC output frequency:	50.0 Hz
Nominal AC input current:	21.7 A	Nominal AC output current:	21.7 A
Rated battery voltage:	48.0 V	Nominal AC output apparent power:	0.0 VA
Nominal AC output voltage:	230.0 V	Nominal AC output active power:	4000 W

Chart 3-2

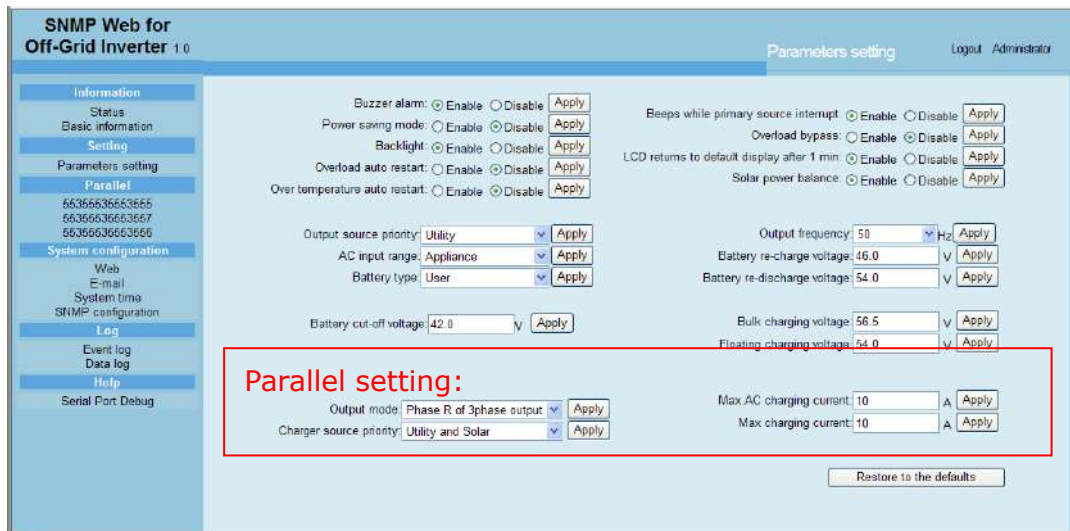
## 3.2 Setting

### 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.



**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.

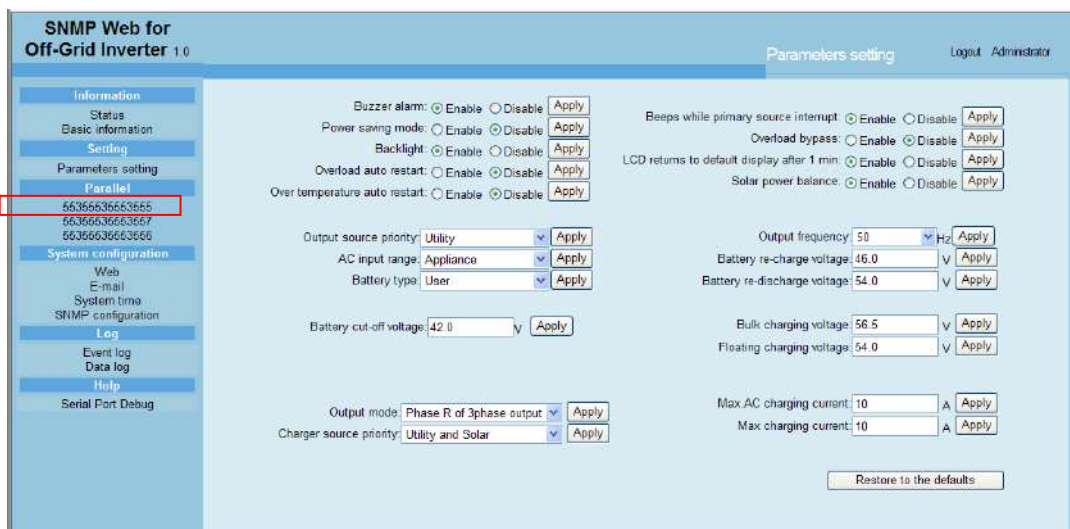
- **Buzzer alarm:** If enabled, buzzer will be activated. Vice versa.
- **Power saving mode:** If enabled, power saving mode will be activated. Vice versa.
- **Backlight:** If enabled, LCD backlight will be activated. Vice versa.
- **Overload auto restart:** If disabled, the inverter will automatically 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 V~ 48.0 V.
  - ✧ **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→ Machine ID" in function menu to access parallel setting for each unit. Refer to Chart 3-4.



**Chart 3-4**

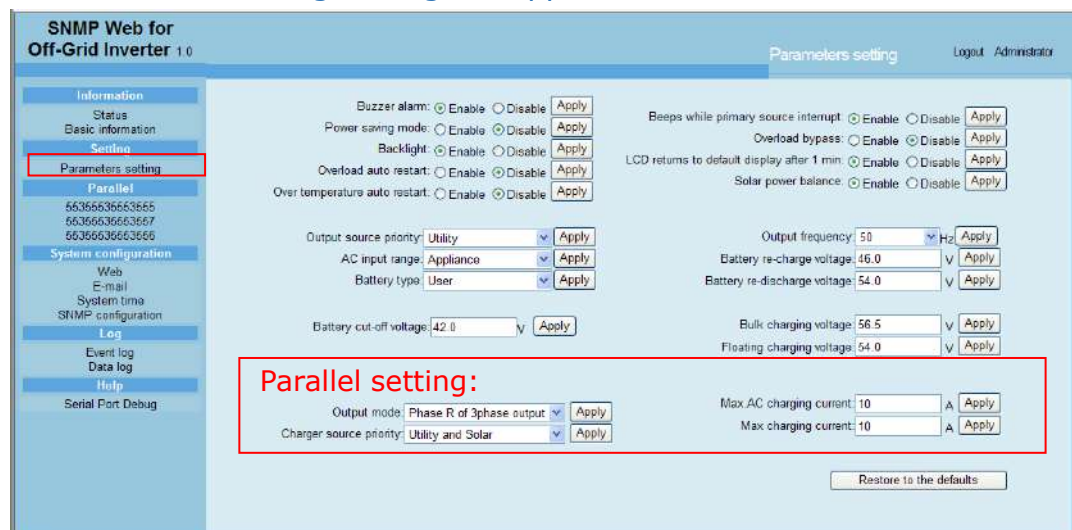
Then, it will show detailed information of this inverter. Refer to Chart 3-5.



**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.



**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 single 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

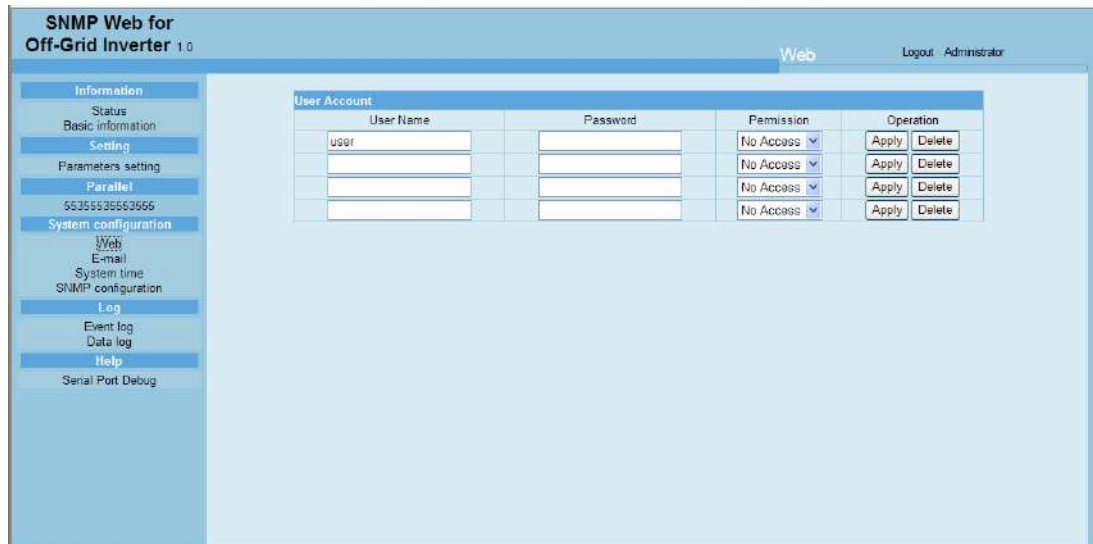
SNMP Web for Off-Grid Inverter 1.0		Parallel information	Logout Administrator
AC input status: Disconnected			
<b>Grid information</b>			
Grid voltage: 0.0V		Grid frequency: 0.00Hz	
<b>AC and PV information</b>			
AC output voltage: 230.0V		AC output frequency: 50.0Hz	
AC output apparent power: 46VA		AC output active power: 0VA	
PV input voltage: 0.0V		Max AC charger current: 10A	
PV input current for battery: 0A			
<b>Battery information</b>			
Battery voltage: 49.4V		Battery charging current: 0A	
Battery capacity: 72%		Battery discharging current: 0A	
Max charger current: 10A		Max charger range: 110A	
<b>Total information</b>			
Total charging current: 0A		Total AC output apparent power: 137VA	
Total output active power: 0VA		Total AC output percentage: 0%	
<b>Fault event</b>			
[]			

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.

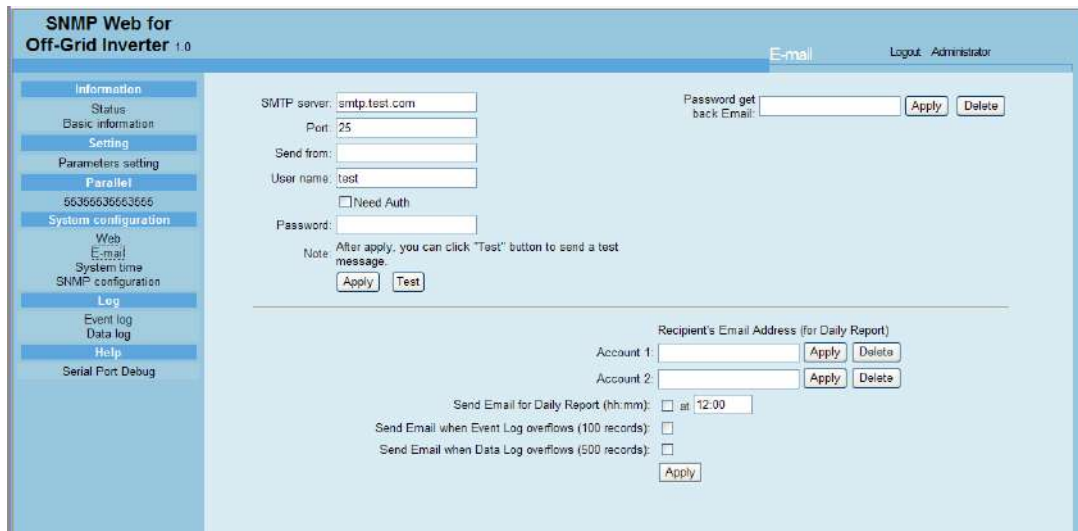


**Chart 3-8**

### 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



**Chart 3-9**

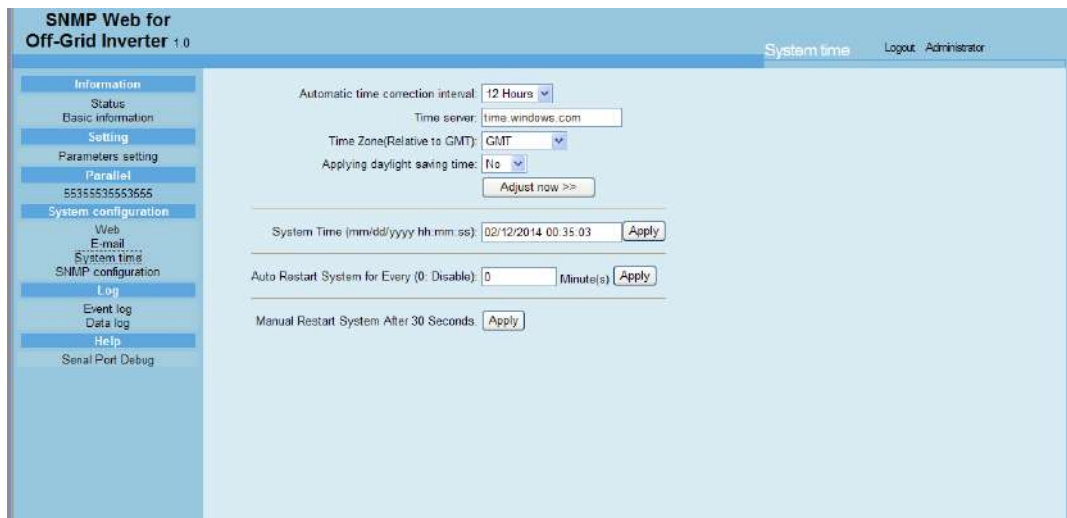
1. Enter SMTP server, SMTP port, sender's E-mail address, user name and password. Click checkbox of "Need Auth" for password verification.
2. Click "Apply" to save the changes. The "Test" button can be used to send a test e-mail to all receivers to confirm correct operation. When the test e-mails are 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.

- 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.



**Chart 3-10**

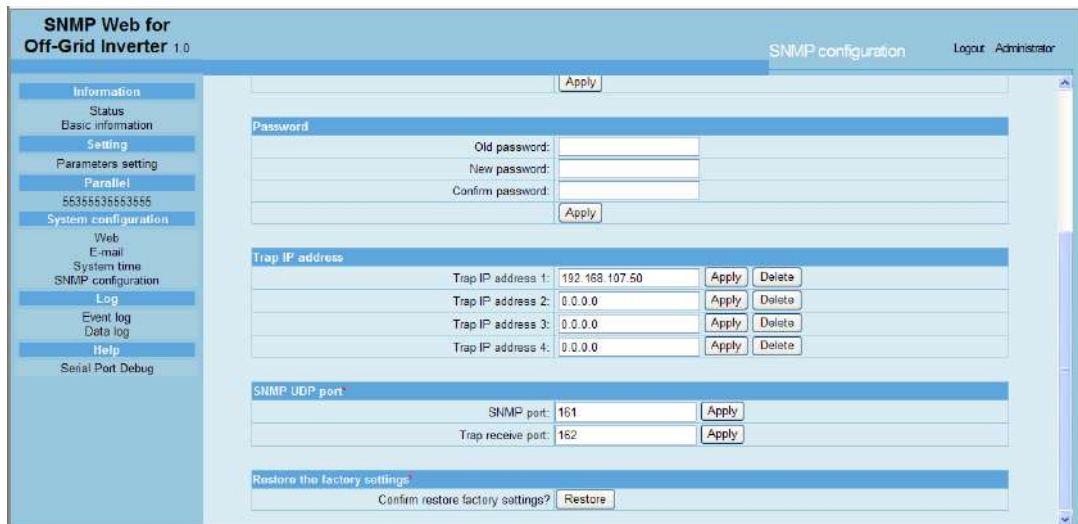
- Automatic time correction interval: There are five options: No, 1 hour, 12 hours, 1 day and 1 week. When interval is selected, it will automatically calibrate time.
- Time server: Please enter SNTP server IP address or domain name of time server.
- Time Zone: Select time zone based on GMT.
- Applying 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.



**Chart 3-11**

- IP address: There are two methods to obtain IP address
  1. 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.





## 3.6 Help

### 3.6.1 Serial Port Debug

It's a useful tool to verify communication problems between SNMP web card/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.

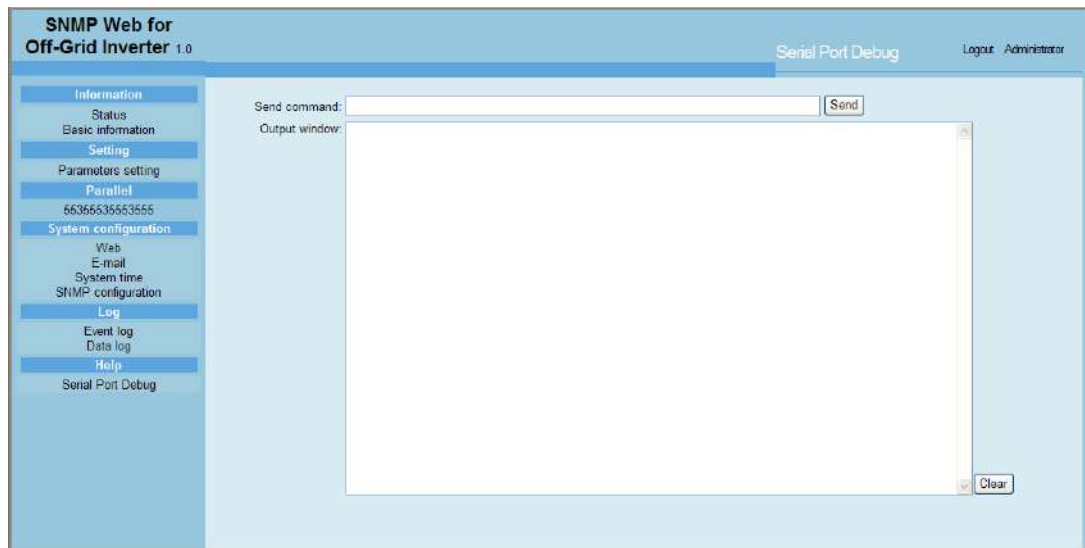


Chart 3-14



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