SolarPower Pro

User's Manual

Management Software for Solar Inverter

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1. SolarPower Pro Overview

1.1. Introduction

SolarPower Pro is a solar inverter monitoring software, It can monitor up to 247 devices via modbus interface and monitor up to 300 devices via Ethernet. It also provides web browser capability in a networked environment. The major functions of SolarPower Pro monitoring software include data log for device, power generation statistics, alarm messages, fault messages, and parameter setting for devices. Refer to diagram 1-1 for system architecture:

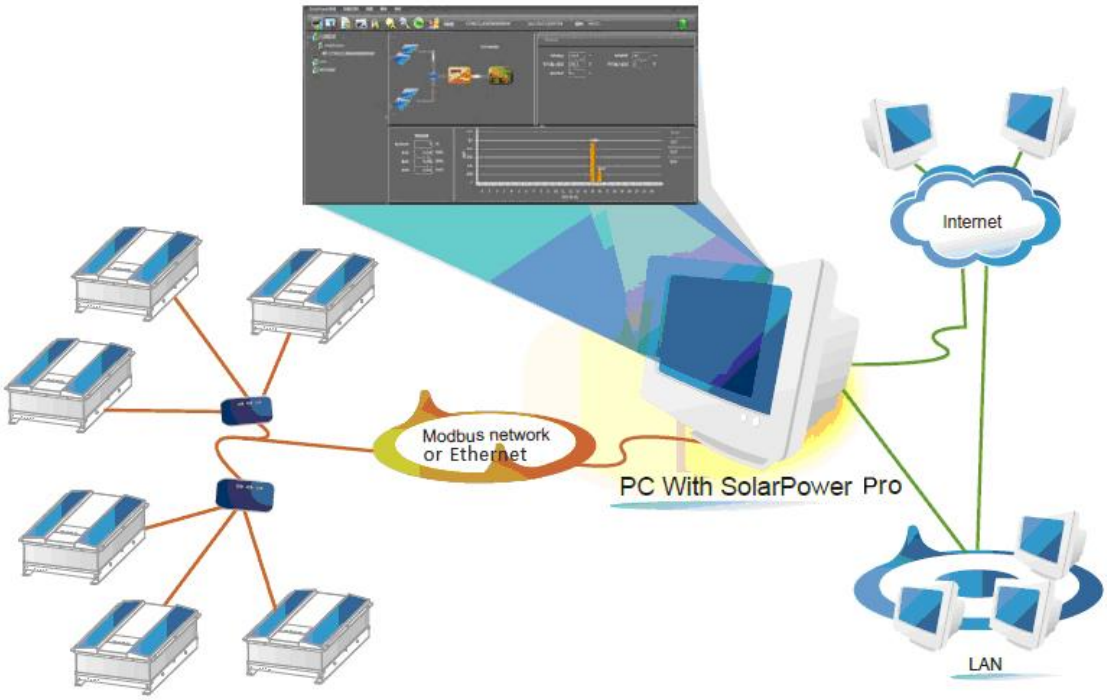


Diagram 1-1

1.2. Structure

SolarPower Pro includes SolarPower Pro service tray and SolarPower Pro monitoring application. SolarPower Pro service is the administrator for SolarPower Pro Monitoring application. It's a system program running in the back end. It will provide service

including registration, startup, stop, SNMP Manager, configuration, and software upgrade. SolarPower Pro monitoring application is the major subject to provide monitoring and web service for SolarPower Pro software.

1.3. Features

- Allows control and monitoring of multiple devices via LAN and INTERNET
- Automatic and real-time data acquisition of devices and secured data log saving
- Graphic display of device data for quick and easy reading
- Warning notifications or fault alarms via audible alarm, pop-up screen, broadcast, mobile messenger, tray message and e-mail
- Easy diagnosis from event statistics and amount calculation for energy saving
- Maximum data log up to 10 billion
- Supports online upgrade and manually upgrade

2. SolarPower Pro Install and Uninstall

2.1. System Requirement

- 1 GB physical memory at least (2 GB is recommended)
- 2GB hard disk space at least
- Administrator authority is required
- More than 32-bit colors and 1280 x 800 or above resolution display is recommended
- TCP/IP protocol must be installed for network management
- An available communication port is needed
- Platforms supported by software are listed below:
  - Windows 2000
  - Windows 2003/2008/XP/Vista (32-bit & x64-bit)
  - Windows 7(32-bit & x64-bit)
  - Linux RedHat 8,9

- Linux RedHat Enterprise AS3,AS5,AS6 (32-bit)
- Linux SUSE 10 (32-bit)
- Linux Cent OS 5.4 (32-bit)
- Linux Ubuntu 8.X,9.X,10.X (32-bit)
- Linux Fedora 5
- Linux OpenSUSE 11.2 (32-bit)
- Linux Debian 5.x, 6x(32-bit)
- Mac OS 10.6 (x64-bit)
- Mac OS 10.7 (x64-bit)

2.2. Software Install

Step 1 After clicking install, it will display the installation in process. Refer to the diagram 2-1.

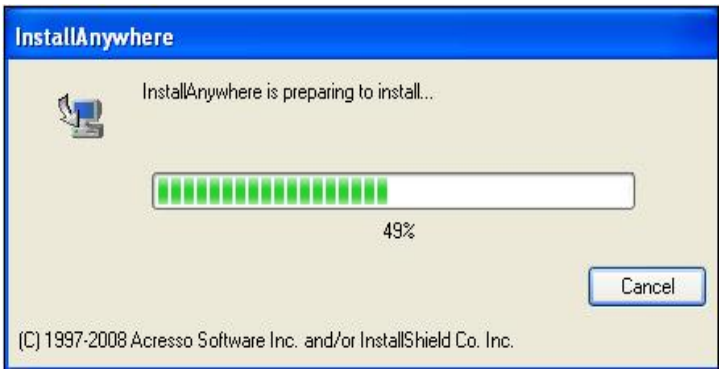


Diagram 2-1

Step 2 Choose wanted language and click "OK" as diagram 2-2.

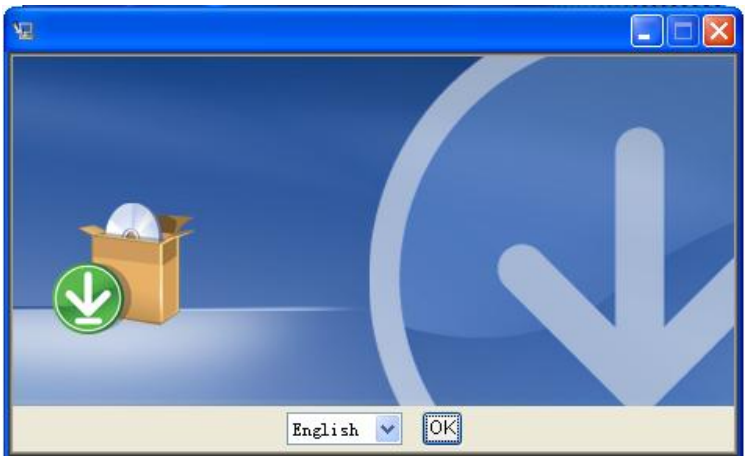


Diagram 2-2

Step 3 Click "Next" to proceed to the next screen as Diagram 2-3.

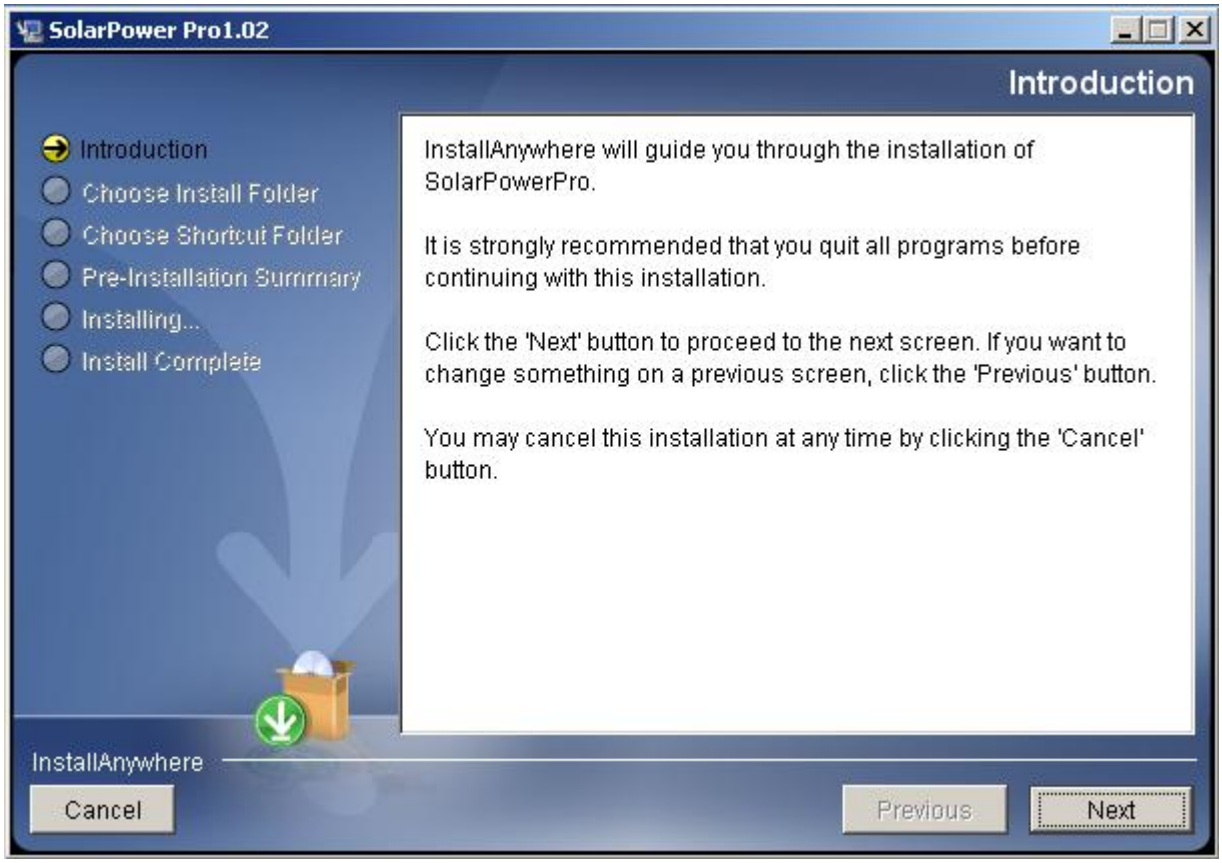


Diagram 2-3

Step 4 Click "Choose" button to change the default folder. After choosing the installed folder, click "Next" button. Refer to the following diagram 2-4.

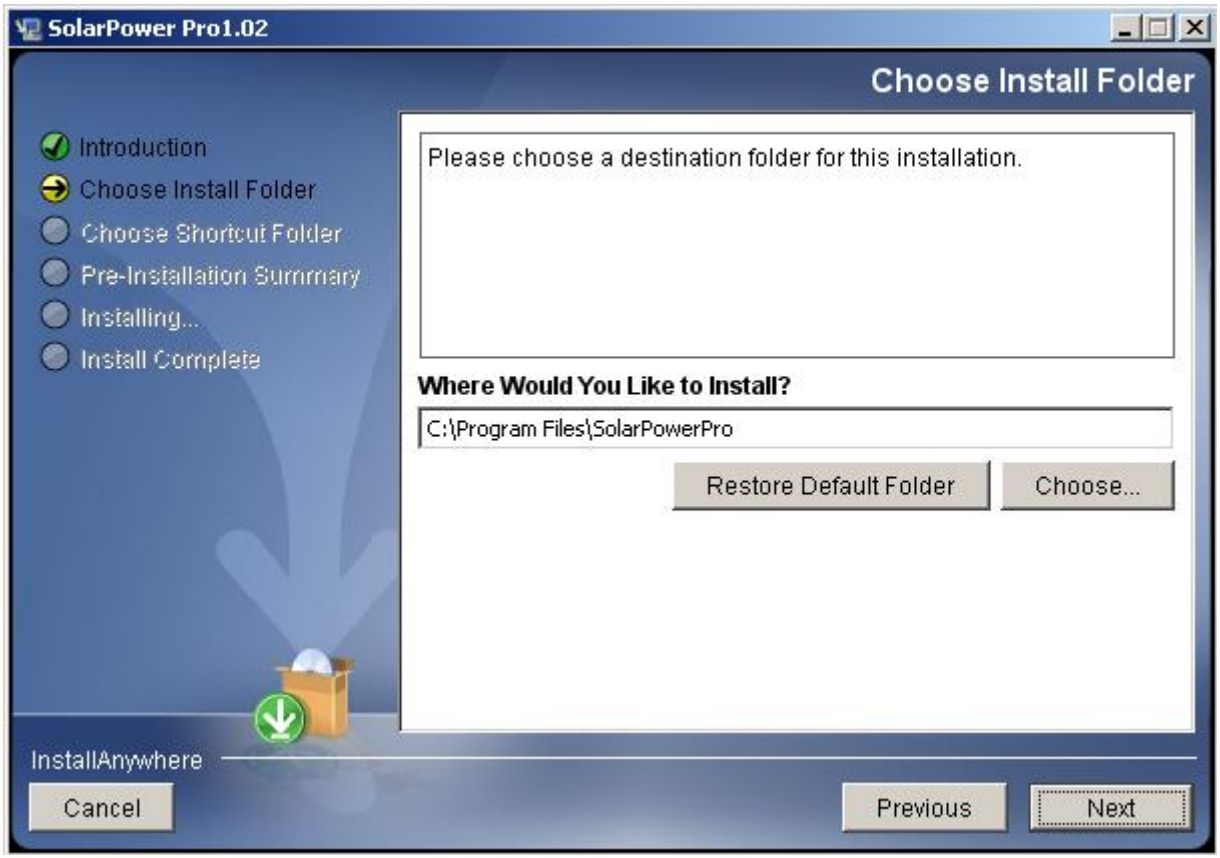

SolarPower Pro1.02
Choose Install Folder
Introduction
Choose Install Folder
Choose Shortcut Folder
Pre-Installation Summary
Installing...
Install Complete
Please choose a destination folder for this installation.
Where Would You Like to Install?
C:\Program Files\SolarPowerPro
Restore Default Folder
Choose...
InstallAnywhere
Cancel
Previous
Next

Diagram 2-4

Step 5 Choose the shortcut folder and click "Next" button. Refer to the following diagram 2-5.

Diagram 2-5

Step 6 It will display the software summary before installation. Click "Install" button to start the installation and refer to Diagram 2-6.

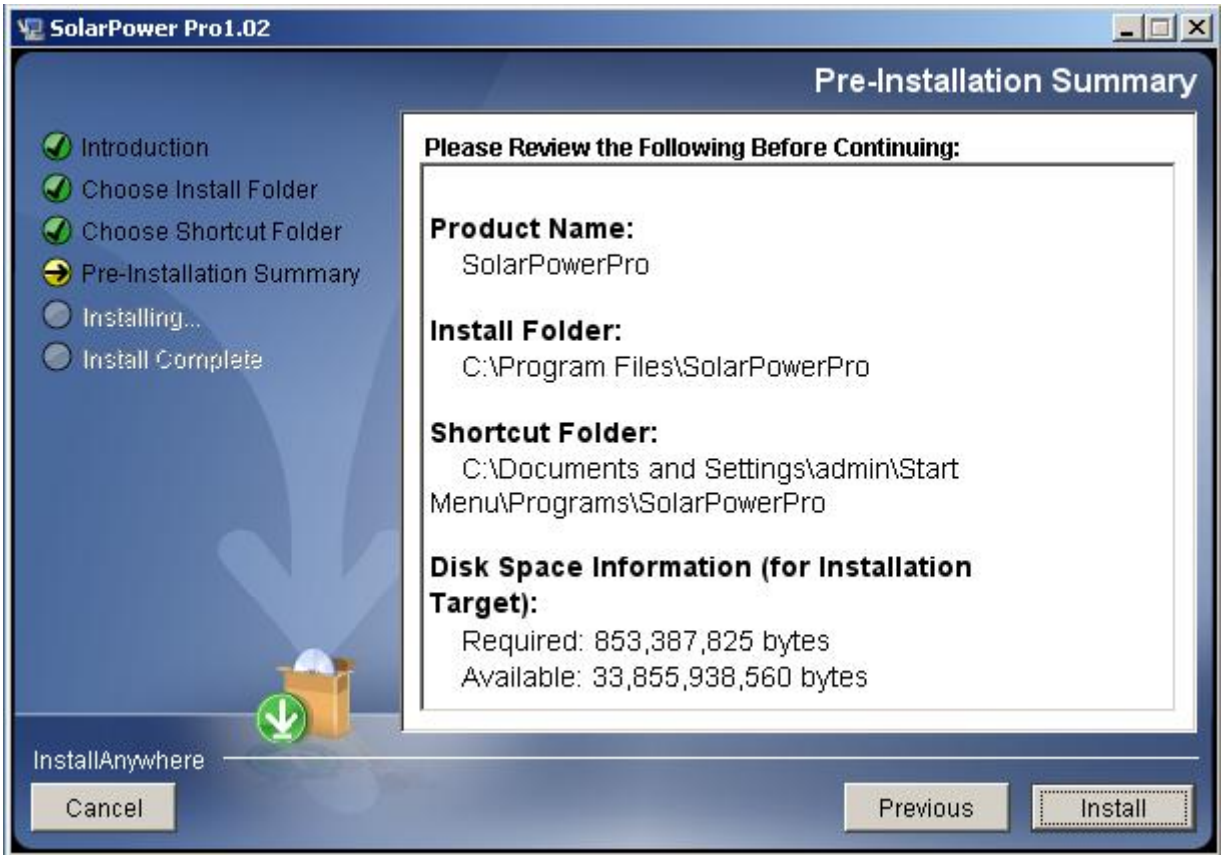


Diagram 2-6

Step 7 Installing, refer to Diagram 2-7.

Diagram 2-7

Step 8 Click "Done" button to confirm the installation completely. Refer to Diagram 2-8.

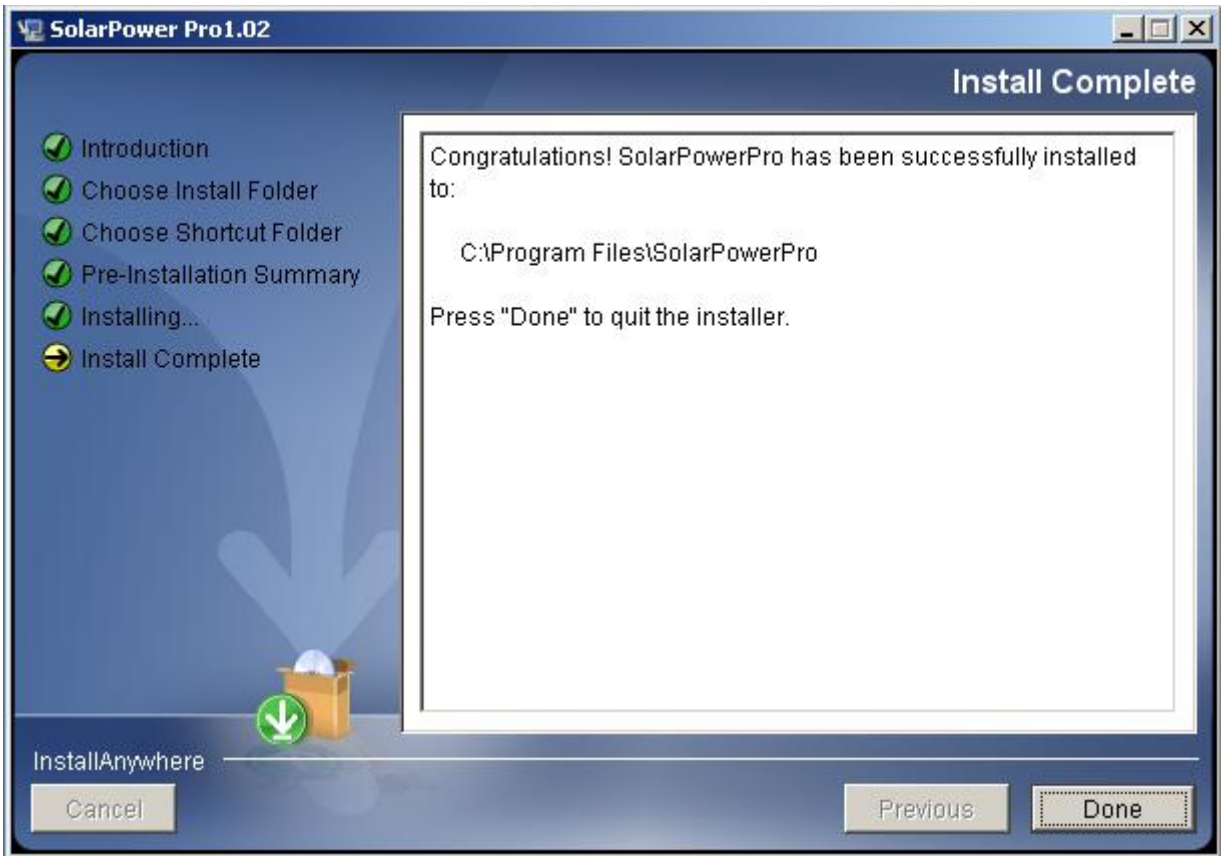


Diagram 2-8

2.3. Software Uninstall

Please choose Start >> All Programs >> SolarPower Pro >> Uninstall. Then follow the on-screen instruction to uninstall the software.

Note: Before uninstall software, you must stop all software programs first and then log in as "Administrator"! Otherwise it can't be uninstalled completely.

3. Service Tray Application

3.1. Startup

The Installer will leave a shortcut icon called "SolarPower Pro Server" on your desktop. Refer to Diagram 3-1. Simply double click the shortcut. Then it will start the software and display a service icon located in tray. It will pop up function menu by

clicking right button of the mouse. Refer to below diagram 3-2.

Diagram 3-1

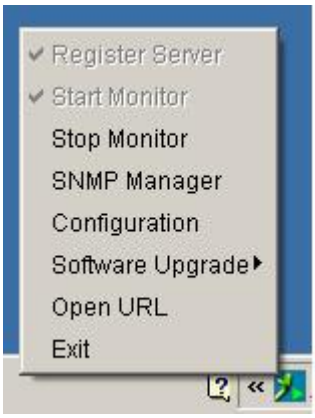


Diagram 3-2

3.2. Register Server

During installation, the installer will try to install the software as service application. If administrator ID is identified, register server will be automatically enabled. Then, any enabled action will cease the registration. If you want to register it again, simply click "Register Server" as "Administrator" log in. There is no need to install the software again.

3.3. Start Monitor

This software will be automatically activated when installing it as service application. At this time, users can remote monitor the solar inverter through web browser even though users do not login in operation system.

If service application can not be registered successfully, when starting up service tray service, it will automatically activate monitoring application. If it's failed or stopped manually, simply click "Start Monitor" to activate it.

"Start Monitor" will check if monitoring application is registered as service application. If it's successfully, this software will be activated from service mode. If not, this

software will be activated as monitoring mode. Users can identify the application mode from tray icon as below:

- Monitoring application is not activated successfully:
- Monitoring application is activated as service mode:
- Monitoring application is activated as application mode:

3.4. Stop Monitor

Click "Stop Monitor" to stop monitoring application.

3.5. SNMP Manager

Click the "SNMP Manager" to access the SNMP management tool. For details, please refer to "SNMP Manager User manual".

3.6. Configuration

3.6.1. Port Modification

If port conflict occurs, you may modify value of tray port. The default setting for tray port is listed as below (Refer to section A in Diagram 3-3):

- Tray port: 38692
- Database connection port: 53306
- Web Service port: 58080
- Web service shutdown port: 58005
- AJP port: 58009

You may modify the value of tray port to any number between 0 to 65536. If value entry is used, the system will remind users to enter another number again.

NOTE1: Please do NOT modify port value unless port conflict occurs. This modification will affect remote monitoring website. For example, if changing web service port to

58081, then the remote monitoring website will change to:

http://xxx.xxx.xxx.xxx:58081/SolarPowerPro

NOTE2: To avoid possible conflicts, please do NOT enter value with at least 4 digits.

3.6.2. Software Upgrade

Refer to section B in Diagram 3-3 for the detailed configuration for online upgrade:

- Specify the URL for update files: This is the directory to online update software. Please do not change it unless it's instructed by software vendor.
- Save files to: The directory to save files.
- Online auto-update: If selected, it will automatically check if there is any new version launched online every 1 hour.
- If applying online upgrade, please follow below for configuration:
  1. Select "Apply the proxy configuration";
  2. Enter IP address and port of server;
  3. If ID identification is requested, select "Enable authentication" and enter User Name and Password.
- Connection test: Click this button to test if all configurations are set up well.

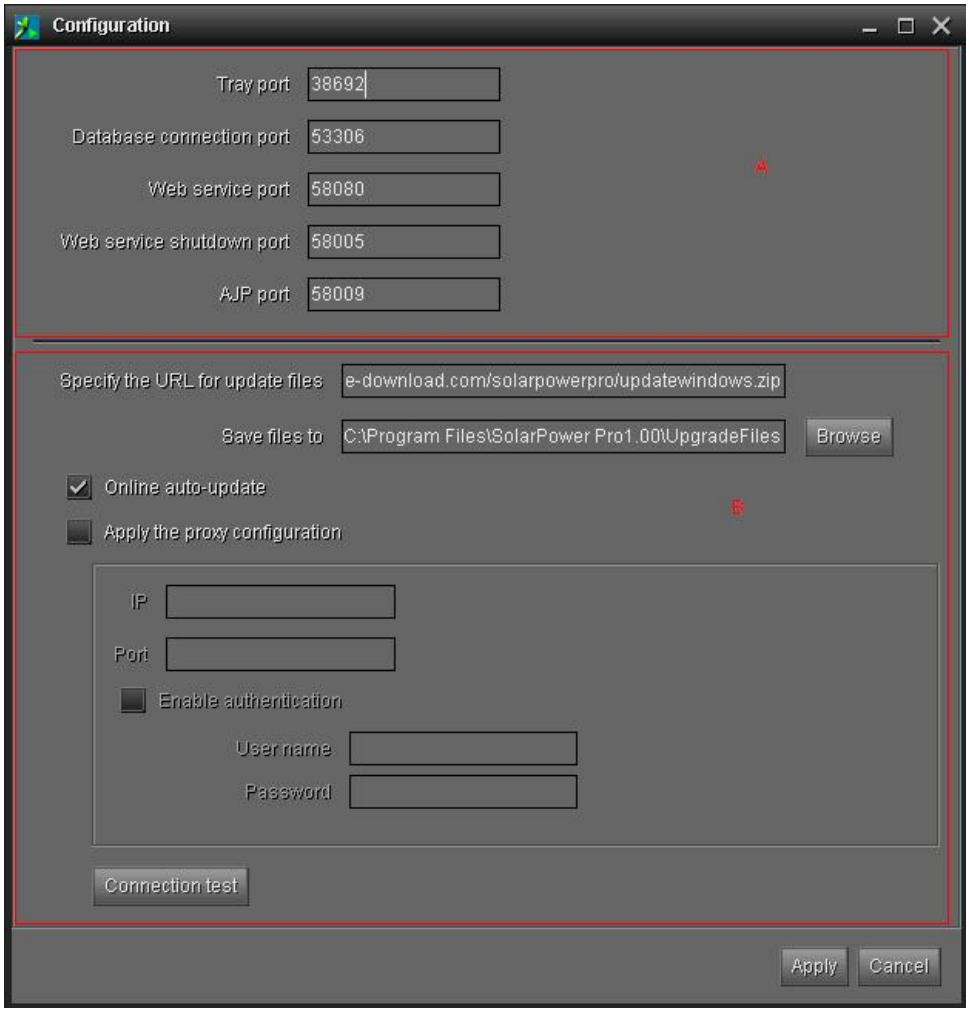


Diagram 3-3

3.6.3. Configuration Saved

Click "Apply" button to save all changes in Configuration page. Click "Cancel" to stop the change.

3.7. Software Upgrade

Software upgrade includes online upgrade and manually upgrade:

- Online Upgrade:

  Click "Online Upgrade" to search the latest software version. If there is new version, it will automatically download and upgrade. Refer to Diagram 3-4.

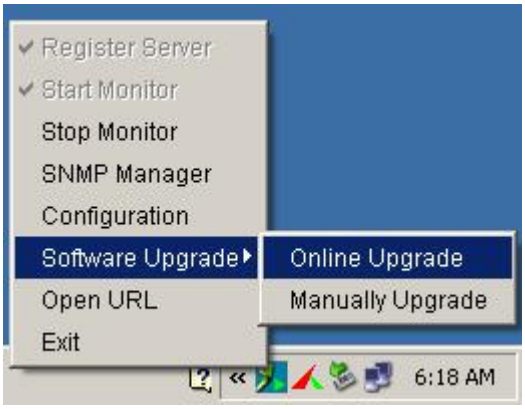


Diagram 3-4

- Manually Upgrade:

  Users can manually upgrade the software. Follow below steps:

  1. Click "Manually Upgrade" from function menu. Refer to Diagram 3-5.

Diagram 3-5

  2. Click "Browse" to choose file directory. And then click "Upgrade" to upgrade software. Refer to Diagram 3-6.

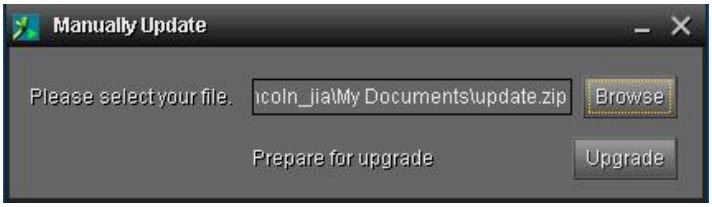


Diagram 3-6

3.8. Icon and Software Status

- Connecting devices with service mode: and will rotate as an animation
- Connecting devices with application mode: and will rotate as an animation
- When receiving event message at application mode with devices connected:

will flash for reminder

- When receiving event message at application mode without devices connected: will flash for reminder
- When receiving event message at service mode with devices connected: will flash for reminder
- When receiving event message at service mode without devices connected: will flash for reminder

3.9. Message Board

Users can check message board for event list. Refer to Diagram 3-7：

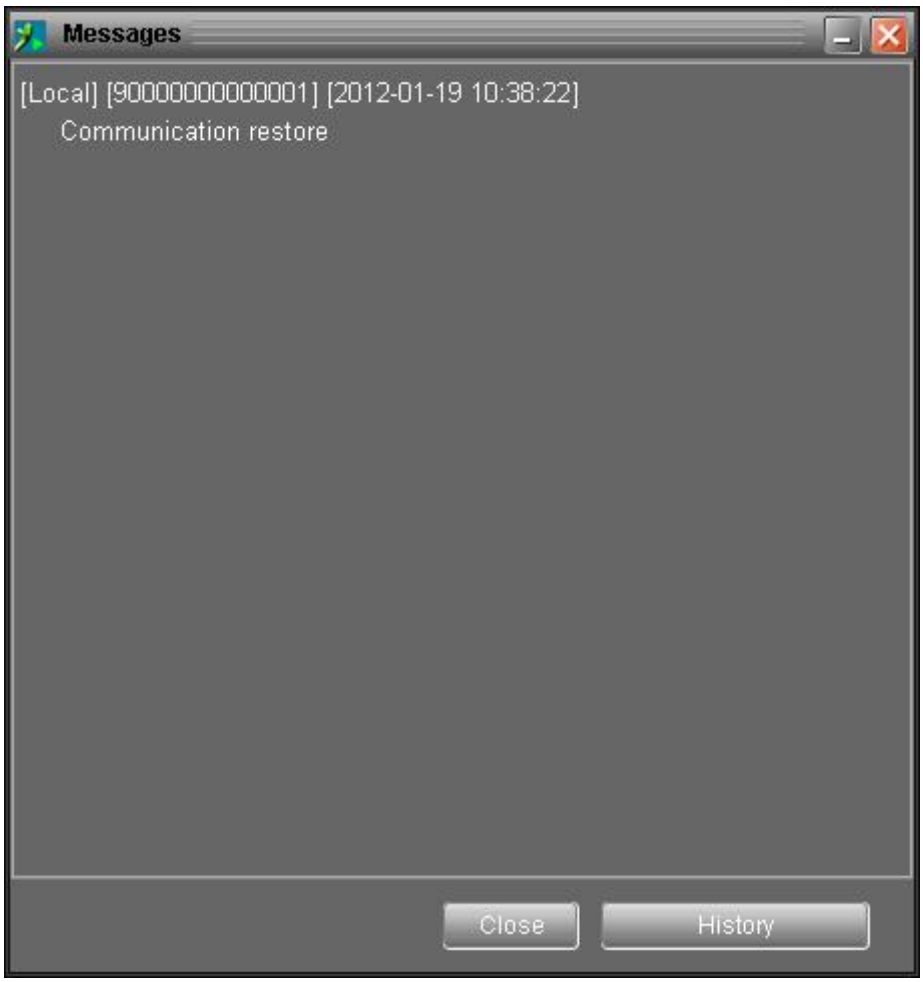


Diagram 3-7

3.10. Exit

Click "Exit" to exist service application.

4. SolarPower Pro GUI Interface

SolarPower Pro GUI Interface has five sections as marked in the illustration below:

Diagram 4-1

A. Function Menu offers complete tool-set for navigating and setting the GUI.

B. Shortcut Menu provides short cuts to more commonly used functions.

C. Solar Inverter Navigation indicates all devices locations in networked environment.

D. Current Monitoring Information displays User ID, monitored inverter ID, time, temperature, and warning indicator.

E. Main Client Area contains information and/or controls that change with each function menu or shortcut menu selected.

4.1. SolarPower Pro Configuration

4.1.1. Basic

Select SolarPower Pro Configuration>>Basic. This page is to set basic display. Refer to Diagram 4-2.

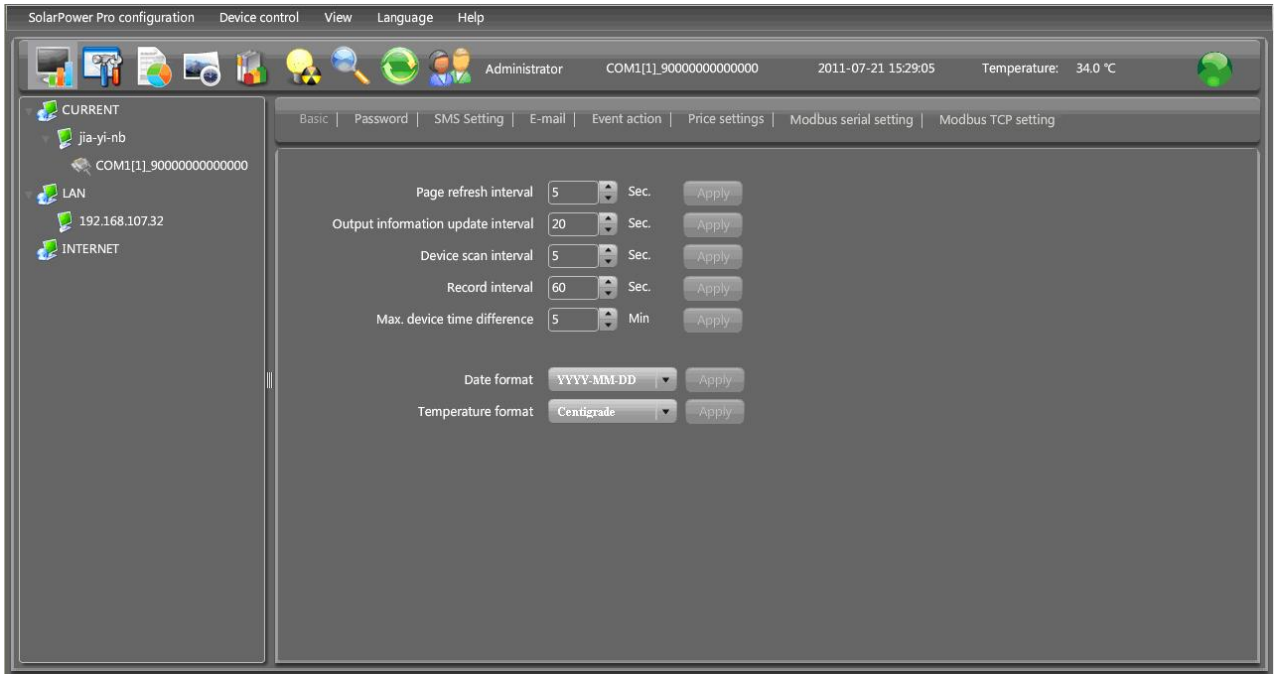


Diagram 4-2

1. Page refresh interval: This interval time will determine how long the web page is refreshed. Setting range is from 5 to 600 seconds. The default setting is 5 seconds.
2. Output information update interval: This interval time will determine how long the power generation data is updated. Setting range is from 10 to 600 seconds. The default setting is 20 seconds.
3. Devices scan interval: This interval time will determine how long the device scanning action will be executed. The setting range is from 5 to 600 seconds. The default setting is 5 seconds.
4. Record interval: This interval time will determine how long the monitoring data of solar inverters will be recorded into database. The setting range is from 30 to 600 seconds. The difference between each option is 30 seconds. The default setting is 60 seconds.
5. Max. device time difference: It will send alarm message when the maximum device time difference is longer than the setting time. The setting range is from 1 to 60 minutes. The default setting is 5 minutes.
6. Date format: This system supports 4 different formats, "YYYY-MM-DD", "YYYY/MM/DD", "MM-DD-YYYY" and "MM/DD/YYYY". The default setting is "YYYY-MM-DD".

7. Temperature format: This system supports Centigrade (℃) and Fahrenheit (℉). The default setting is Centigrade (℃).

NOTE: The setting figures in item 1, 2, 3, and 4 will affect the software performance. To achieve optimum performance, we recommend for this settings as below:

For modbus:

Device numbers	Page refresh interval	Update the output information interval	Scan the devices interval	Record interval
1-10	5	60	5	60
11-60	20	60	10	90
61-120	30	120	30	120
121-200	40	150	40	180
201-247	60	180	60	240

For SNMPcard:

Device numbers	Page refresh interval	Update the output information interval	Scan the devices interval	Record interval
1-10	10	60	60	60
11-60	20	60	60	90
61-120	30	90	60	120
121-200	40	120	60	160
201-300	60	150	60	180

If any change is made, simply click "Apply" button in the end of each item. Then the setting will be saved.

4.1.2. Password

It's password configuration for administrator only. Before operating and configuring the software, please login first and modify the password. The default password is "**administrator**" at first log in. Users can only browse Solar Inverter status and information as Guest status without login as an Administrator. Guest can not control or executive any setting.

Step 1 Select SolarPower Pro Configuration>>Password. Refer to Diagram 4-3.

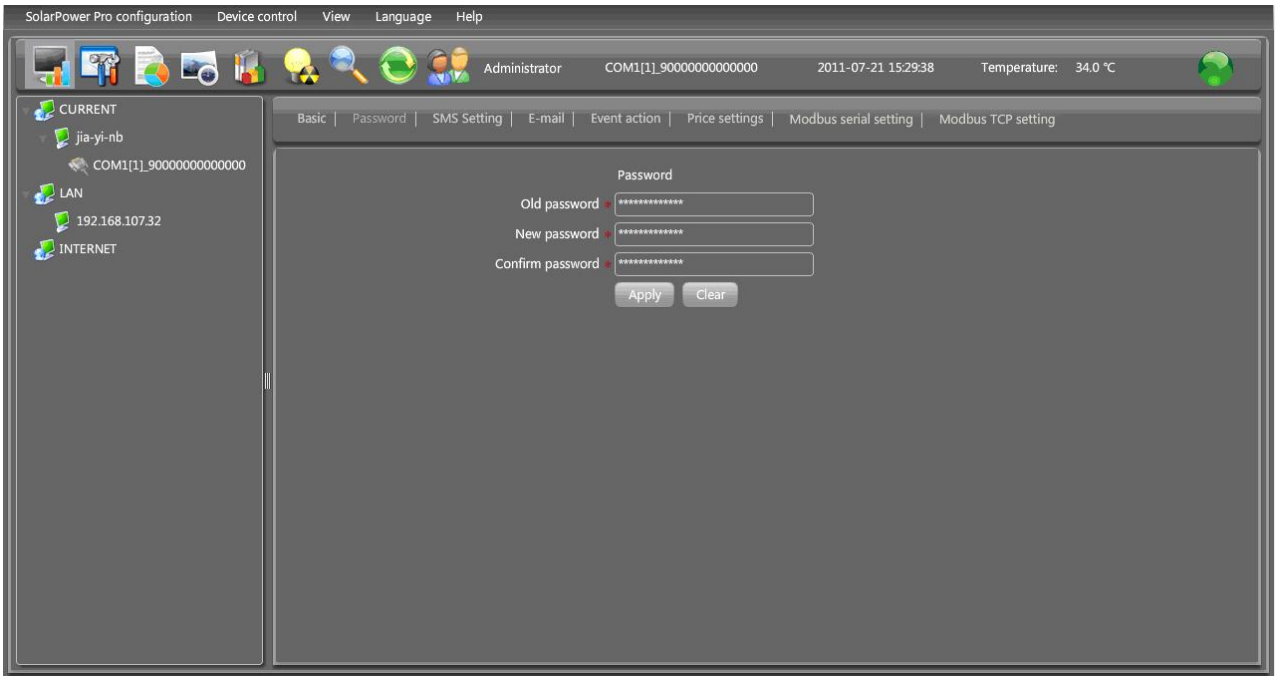


Diagram 4-3

Step 2 Enter old password, new password, and retype new password in confirm password column to modify password for administrator. (The password should be at least 6 digits) Then click "Apply" button to successfully modify password for administrator.

NOTE1: Simply click "Login" button on the top right corner to log in the software.

NOTE2: If password is forgotten, it's necessary to re-install the software.

4.1.3. SMS Setting

It's for entering SMS receiver list. In the event of an alarm condition occurring, a message about Solar Inverter status will be sent to the specified users via mobile phone. For the event receiving list, please configure in "Event Action" column (refer to section 4.1.5).

Step 1 Choose SolarPower Pro Configuration >> SMS Setting. Refer to Diagram 4-4.

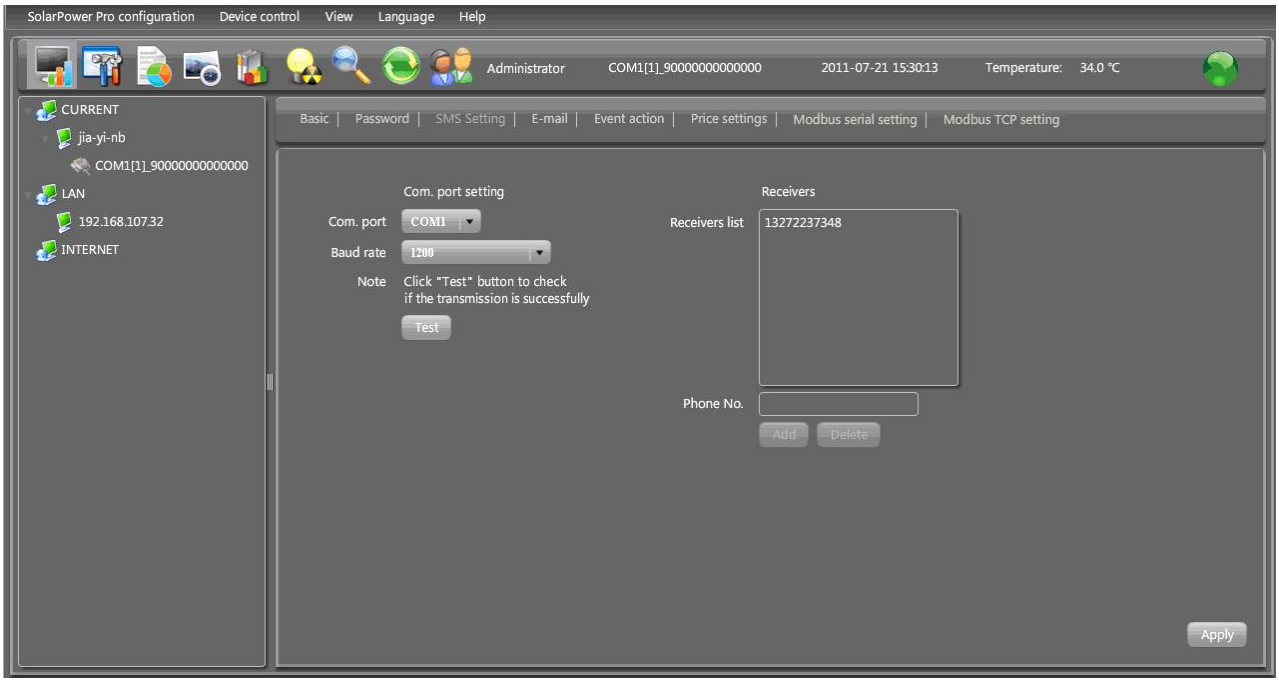


Diagram 4-4

Step 2 Select communication port and baud rate.

Step 3 Enter mobile phone numbers in "Phone no." column and click "Add" button to add phone no. in Receivers List. To delete numbers, simply select phone no. from "Receivers list" and click "Delete".

Step 4 Click "Apply" button to save all changes. The "Test" button can be used to send tests SMS to confirm the correct operation. If all parameters are set up correctly, system will send a test message to all receivers and pop up a successful message. (Refer to Diagram 4-5) Otherwise, it will pop up a failure dialog to indicate there is an error for parameter setting. (Refer to Diagram 4-6)

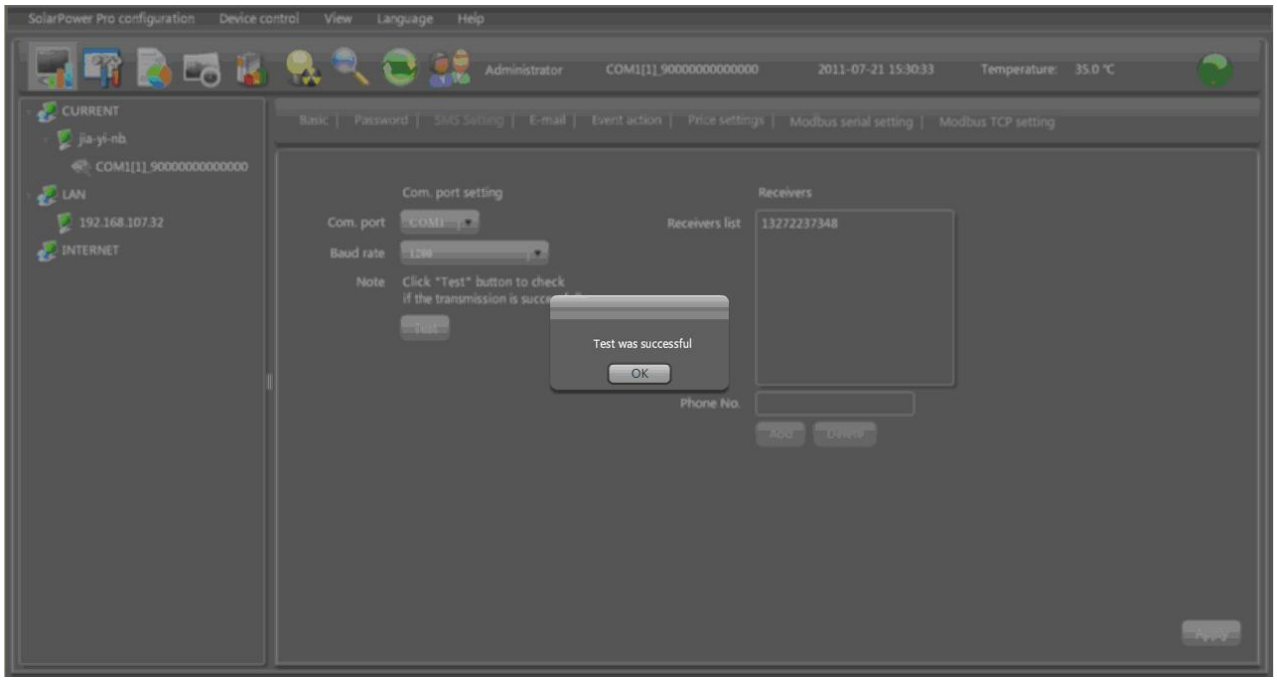


Diagram 4-5

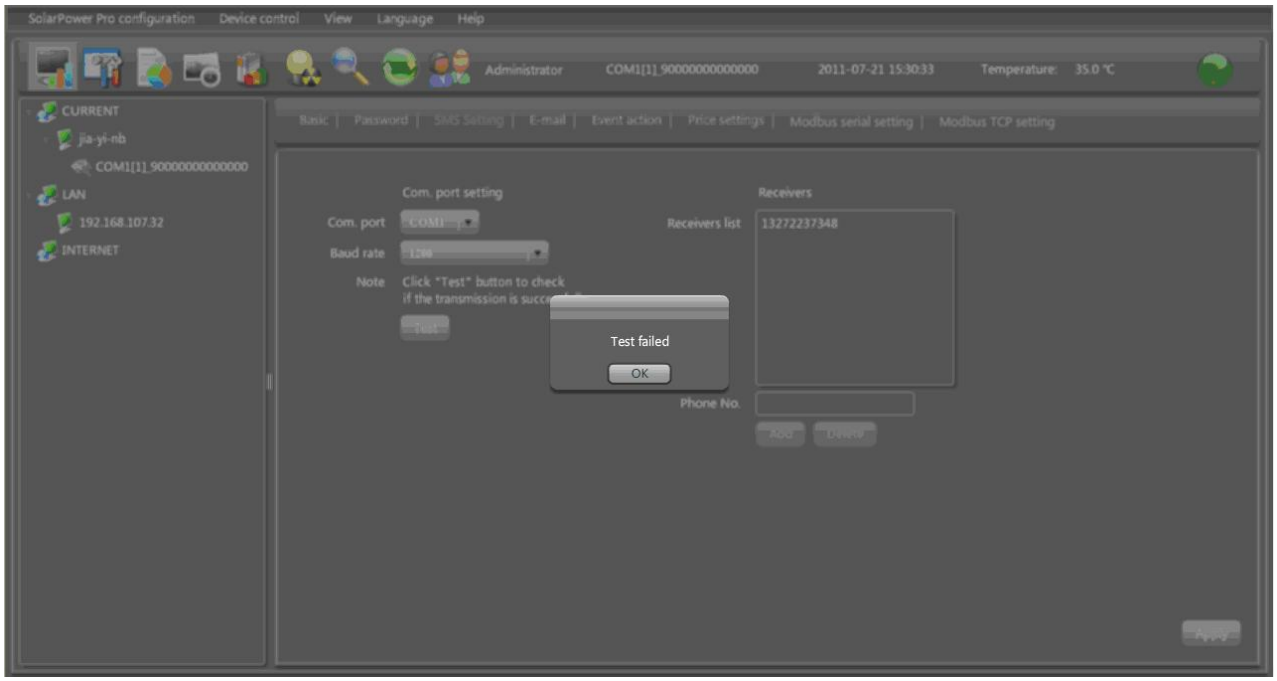


Diagram 4-6

NOTE: It's required to plug-in GSM Modem if sending SMS to mobile phone.

4.1.4. E-mail

This feature enables the configuration to send alarm mail by SMTP server. For the event receiving list, please configure in "Event Action" column (refer to section 4.1.5). To use this function, the e-mail service must be correct configured on the computer. 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.

Step 1 Select SolarPower Pro Configuration >> E-mail. Refer to Diagram 4-7.

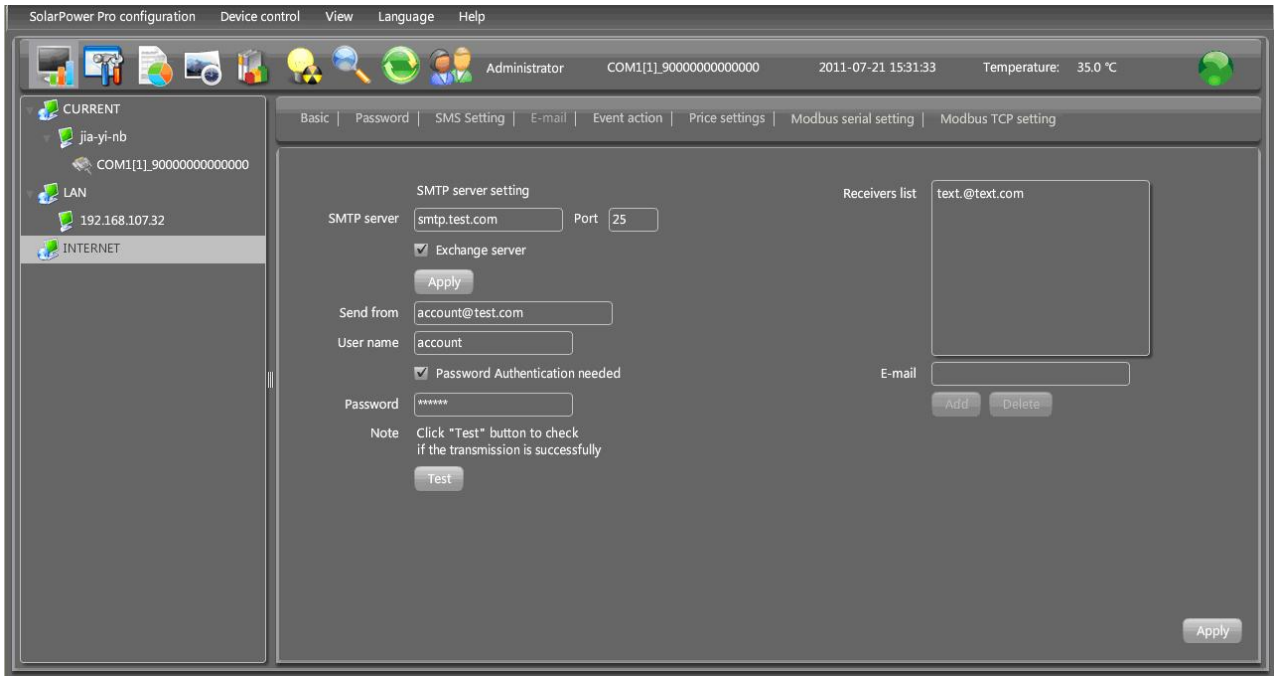


Diagram 4-7

Step 2 Enter SMTP server, Port, Send from E-mail address, User name and password. Click checkbox of password authentication needed for password verify.

NOTE: If using Exchange Server for mailbox system, it's required to configure Exchange server domain name in SMTP sever and select "Exchange server", then click "Apply" button.

Step 3 Enter correct e-mail accounts in E-mail column. Then click "Add" to add into receivers list. To delete e-mail account, simply select accounts from Receivers list and click "Delete" button.

Step 4 Click "Apply" to save all 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 for parameter setting.

4.1.5. Event action

It's to configure response actions for SOLAR INVERTER events. Software provides six response actions after events occur.

1. Event record: It will record event to data log in software after events occur. This function is default selected.

2. Computer alarm: Computer will beep to remind users after events occur. This function is only available for Windows OS.

3. Broadcast: It will send event message to all client PCs (Refer to user manual for client side) with software registered in service tray in the LAN.

4. SMS: It will send the event message to specific mobile phone numbers after events occur.

5. E-mail: It will send the event e-mail to assigned e-mail accounts after events occur.

Step 1 Select SolarPower Pro Configuration >> Event actions. Refer to Diagram 4-8.

Step 2 Select desired action methods by clicking checkbox.

Step 3 Click "Apply" button to save all configurations.

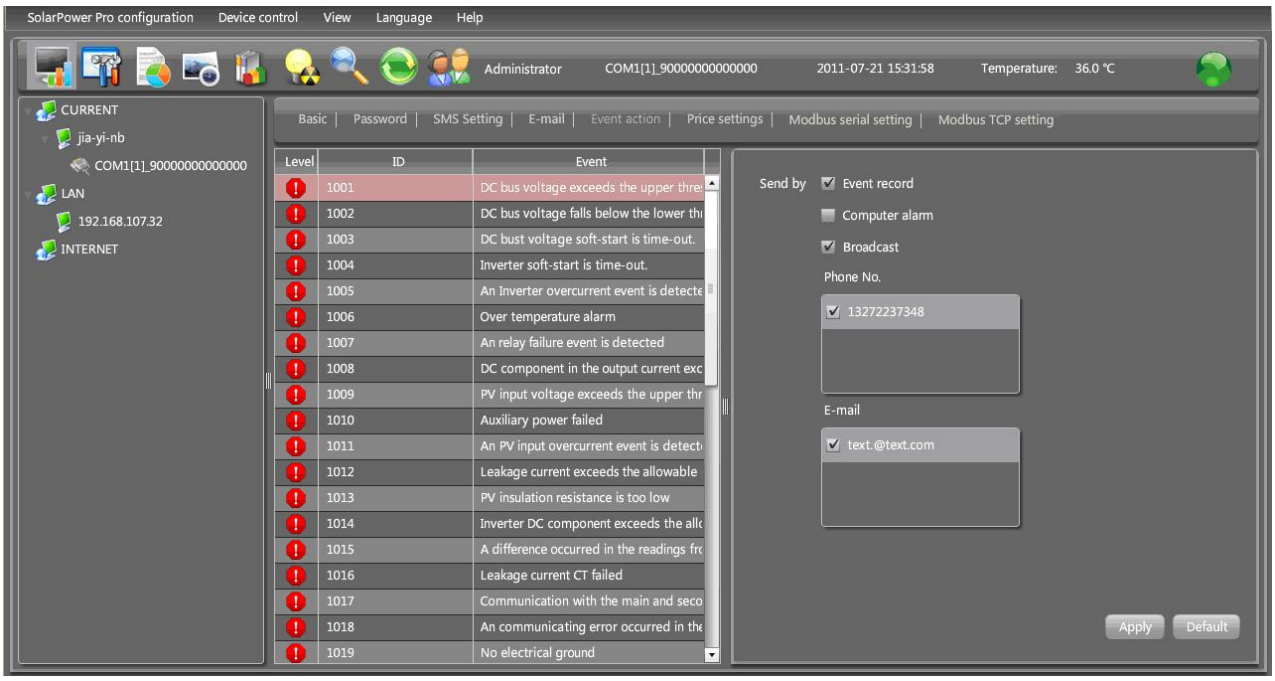


Diagram 4-8

NOTE1: When editing receiver list in SMS or e-mail columns, it's necessary to refresh the event action page to reload the updated receiver list.

NOTE2: The PCs which can receive event message via broadcast must install client software with web service.

NOTE3: Event list may be different based on different types of solar inverters.

4.1.6. Price settings

This function is to calculate the total amount of power generation when entering unit price of electricity. The effective date is to determine when this unit price will be applied and not allowed to repeat.

Select SolarPower Pro Configuration>>Price settings. Refer to Diagram 4-9.

1. Add electricity price: select effective data and enter unit price. The click "Add" button.
2. Delete electricity price: Select deleted item from the list and click "Delete" button to delete.

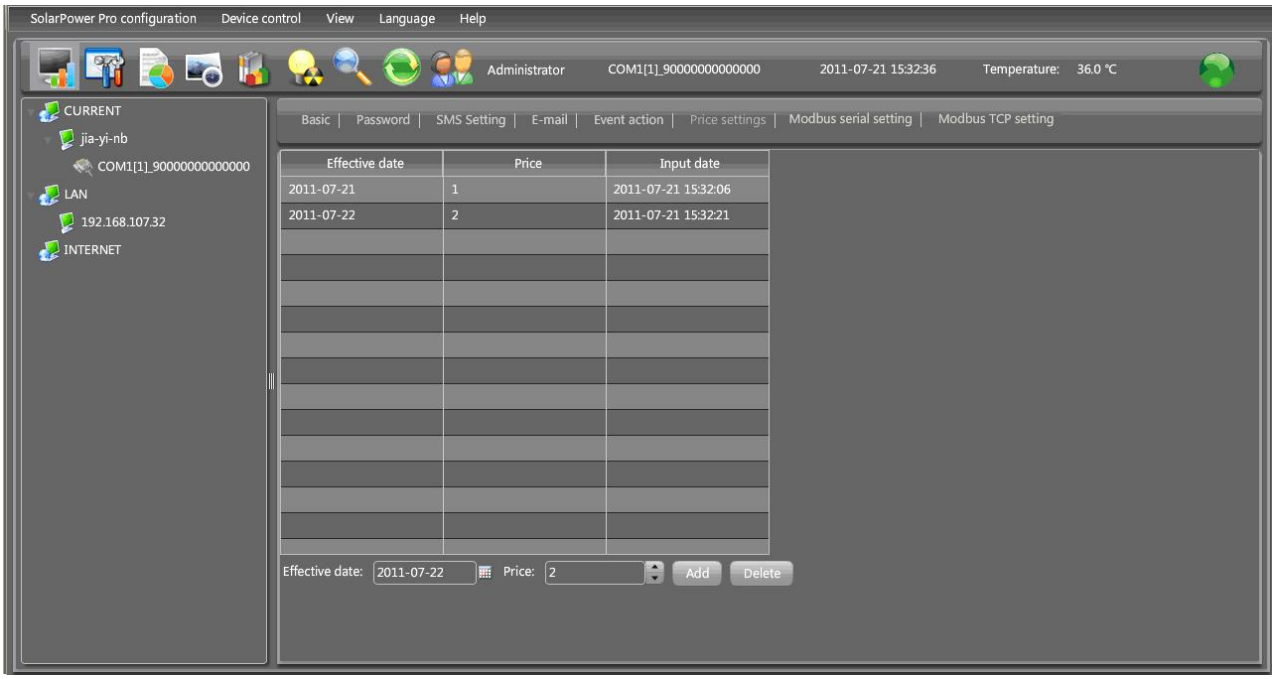


Diagram 4-9

4.1.7. ModBus serial setting

This function is to set communication Modbus port with PCs that connected to

Modbus card by RS232/RS485 converter. It includes Modbus port, Baud rate, data bit, stop bit, parity, and each Device ID in Modbus network.

Step 1 Select SolarPower Pro configuration>> Modbus serial setting. Refer to Diagram 4-10.

Step 2 Select Modbus port to connect PC.

Step 3 Select "Device ID" of connected solar inverter in Modbus network.

Step 4 Select "Baud rate" of com. port. The default setting is 19200.

Step 5 Modify "Data bit" of com. port. The default setting is 8.

Step 6 Modify "Stop bit" of com. port. The default setting is 2.

Step 7 Modify "Parity". The default setting is NONE.

Step 8 Click "Apply" button to save all changes.

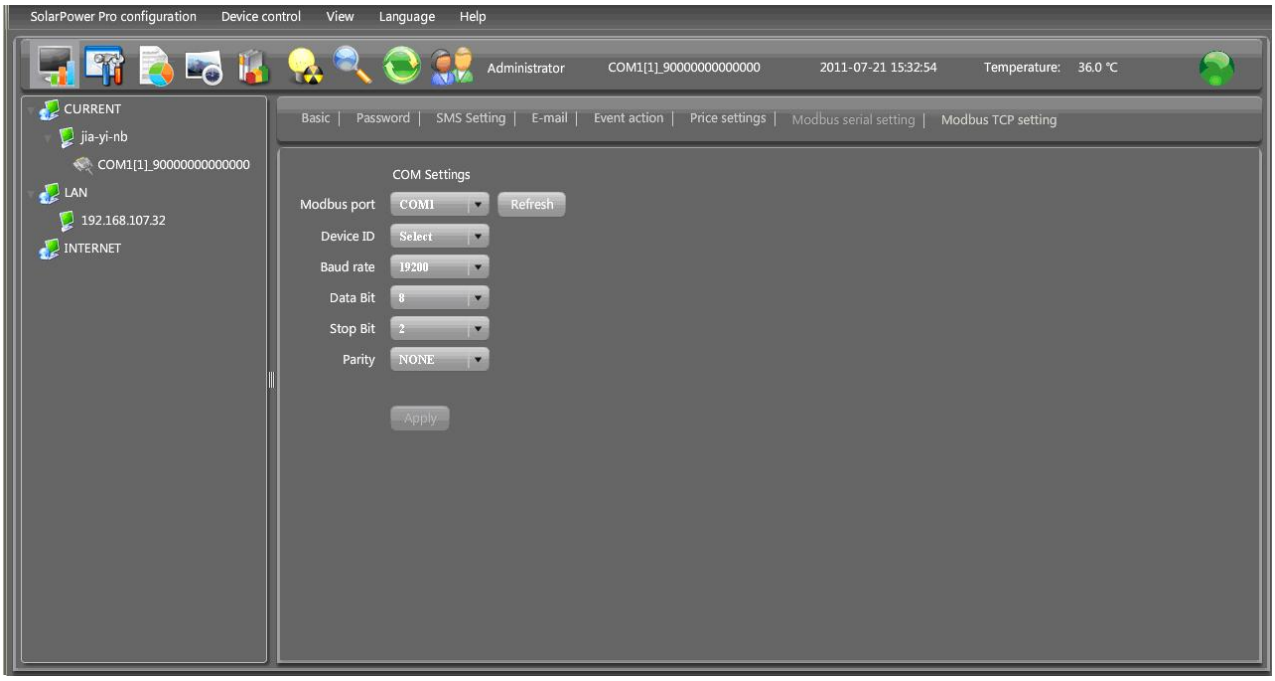


Diagram 4-10

NOTE1: Click "Refresh" button to refresh the port list.

NOTE2: SolarPower Pro supports multiple com. ports to multiple Modbus network.

NOTE3: All configurations will be changed based on different port selection in Step 2.

NOTE4: The default device ID of Solar Inverter is 1.

NOTE5: If none of device ID is selected, it will be identified to not connect with any Modbus network.

NOTE6: If monitoring multiple Modbus networks, then please repeat step 2 – step 7 to set all ports.

4.1.8. Modbus TCP setting

This function is to set communication Modbus TCP gateway with PCs that connected to Modbus card by Modbus TCP gateway. It includes Modbus TCP gateway IP address, Modbus TCP gateway port, time out, and each Device ID in Modbus network.

Step 1: Select SolarPower Pro configuration>> Modbus TCP setting. Refer to Diagram 4-11.

Step 2: Enter Modbus TCP gateway port, the default is 502

Step 3: Enter communication time out，the default is 1000ms

Step 4: Select "Device ID" of connected solar inverter in Modbus network.

Step 5: Click "Add" button to add Modbus TCP gateway setting

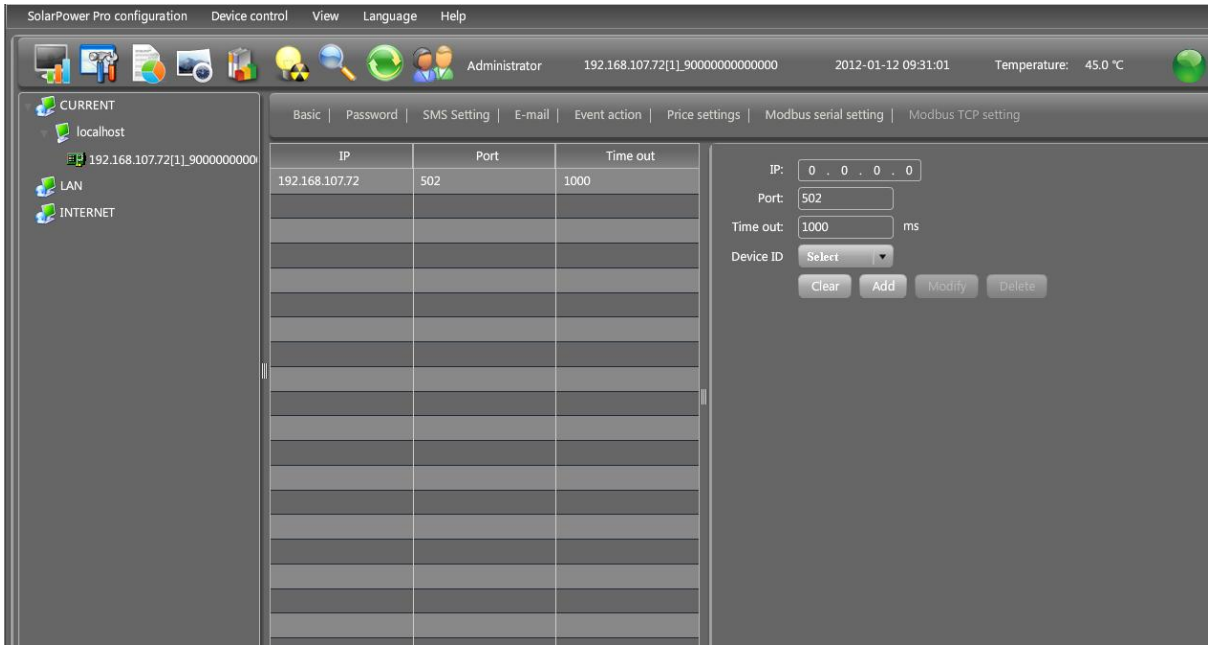


Diagram 4-11

NOTE1: There is some Modbus TCP gateway only supporting one gateway, If multiple SolarPower Pro users access Modbus TCP gateway together, then it will lead to communication quality reduction of Modbus TCP gateway.

4.2. Device control

4.2.1. Parameter Setting

Select Device Control >> Parameter Setting or select shortcut icon . Refer to Diagram 4-12.

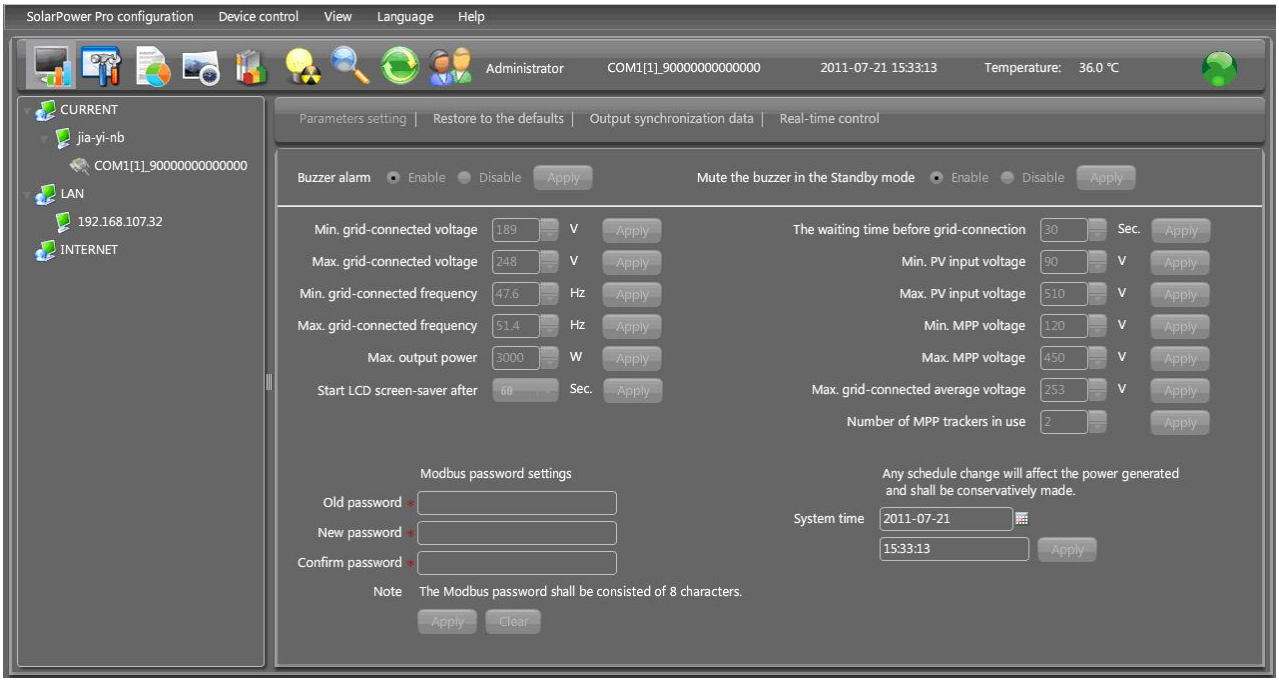


Diagram 4-12

Step 1 Select the functions by clicking "Enable" or "Disable" button. Or change the numbers by clicking up-down arrows or modify the numbers directly in the number column.

Step 2 Click "Apply" button to save the settings. Each function setting is saved by clicking each "Apply" button.

- Buzzer alarm: If it's activated, when fault or warning occurs, it will sound continuously. Vice versa.
- Mute the buzzer in the Standby mode: If it's activated, the buzzer will not sound when the device is in the standby mode. Vice versa.
- Min. grid-connected voltage: The acceptable low voltage point for solar inverter to have grid connected.

- Max. grid-connected voltage: The acceptable high voltage point for solar inverter to have grid connected.
- Min. grid-connected frequency: The acceptable low frequency point for solar inverter to have grid connected.
- Max. grid-connected frequency: The acceptable high frequency point for solar inverter to have grid connected.
- Max. output power: The maximum output power from solar inverter.
- Start LCD screen-saver after: The maximum duration time to activate LCD backlight.
- The waiting time before grid-connection: The duration times to establish grid-connection after all conditions are met.
- Min. PV input voltage: The acceptable low voltage point for PV terminals when grid connection is established successfully.
- Max. PV input voltage: The acceptable high voltage point for PV terminals when grid connection is established successfully.
- Min. MPP voltage: The acceptable low voltage point from solar module.
- Max. MPP voltage: The acceptable high voltage point from solar module.
- Max. grid-connected average voltage: When the average voltage is higher than this setting, it will be identified as the utility is abnormal.
- Modbus password settings: Modify current password of Modbus in monitoring device.
- System time: It presents the device time zone. Any modification may effect the calculation of power generation. Please conservatively make any change.

  NOTE1: This screen may be different for different types of solar inverters.

  NOTE2: All parameter setting should be made at standby mode.

4.2.2. Restore to the defaults

This function will restore all settings to the default and clear all data in database. Therefore, please conservatively execute this function.

Select Device control >> Restore to the defaults. Refer to Diagram 4-13.

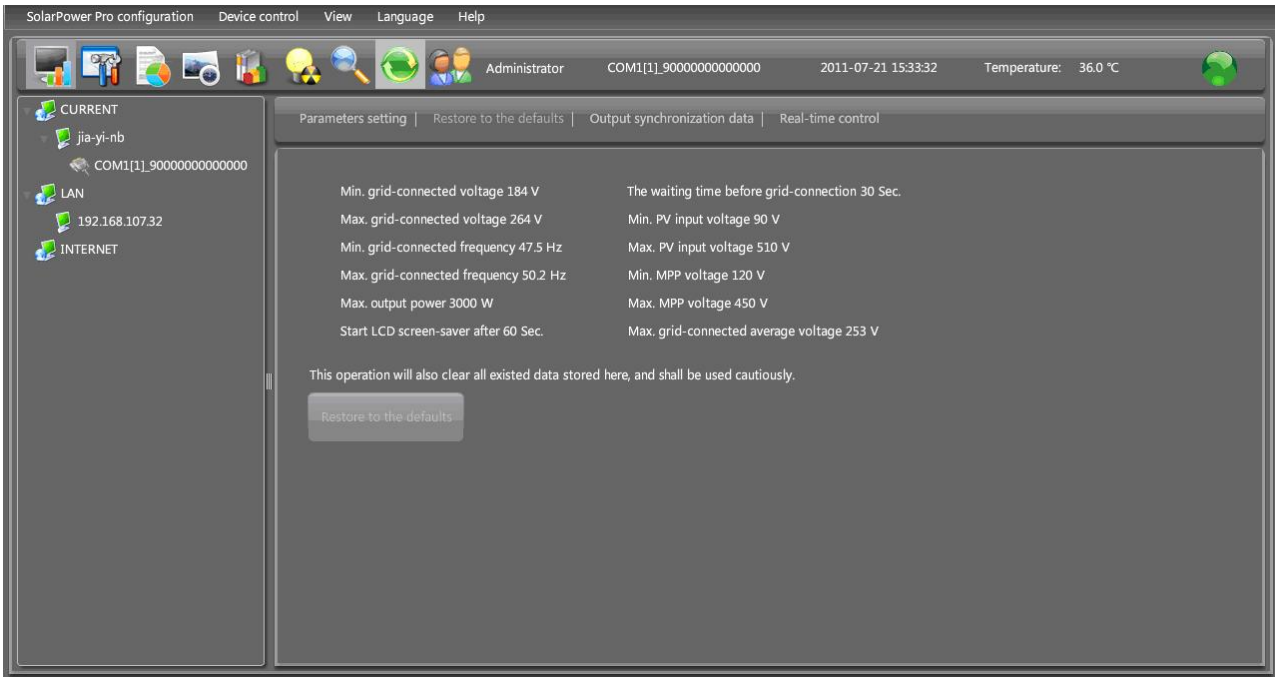


Diagram 4-13

NOTE: This screen may be different for different types of solar inverters.

4.2.3. Output synchronization data

This function will retrieve saved data in selected solar inverter units to re-save in the database. It can be saved either automatically or manually.

Select Device control >>Output synchronization data. Refer to Diagram 4-14.

Method 1: Automatic output synchronization data (Refer to A section in Diagram 4-14)

Set frequency (daily, weekly, monthly, and time) to automatically sync output data.

Add schedule: Click "Add" button to add schedule into calendar. Every device supports only one sync schedule.

Delete schedule: Select deleted schedule from the list and click "delete" button to remove.

Method 2: Manual output synchronization data. Refer to B section in Diagram 4-14.

There are two patterns to sync data.

Synchronize all data: It will save data of selected devices to the database immediately.

Synchronize data for selected date: It will save data of selected devices to the database during indicating period.

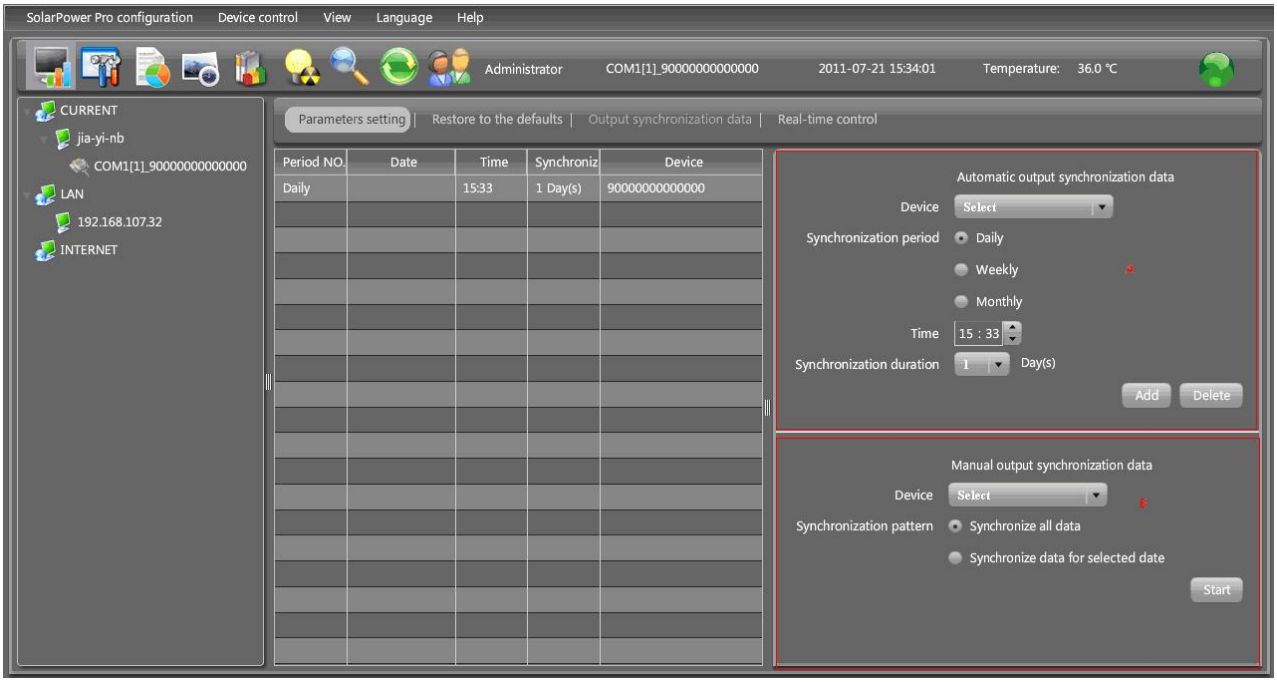


Diagram 4-14

NOTE: No matter it's automatic or manual sync, this action only sync data which is not updated to database before. If users want to update output data during specific time period, then please delete the data record of this period from power generation log.

4.2.4. Real-time control

Select Device control >> Real-time control. Refer to Diagram 4-15.

Grid self-test: Click "Start" button to initial self-test. If monitored inverter is equipped with self-test function, it will take about 30 seconds to have an outcome message. If monitored inverter is not equipped with this function, then it will pop up a message to inform users.

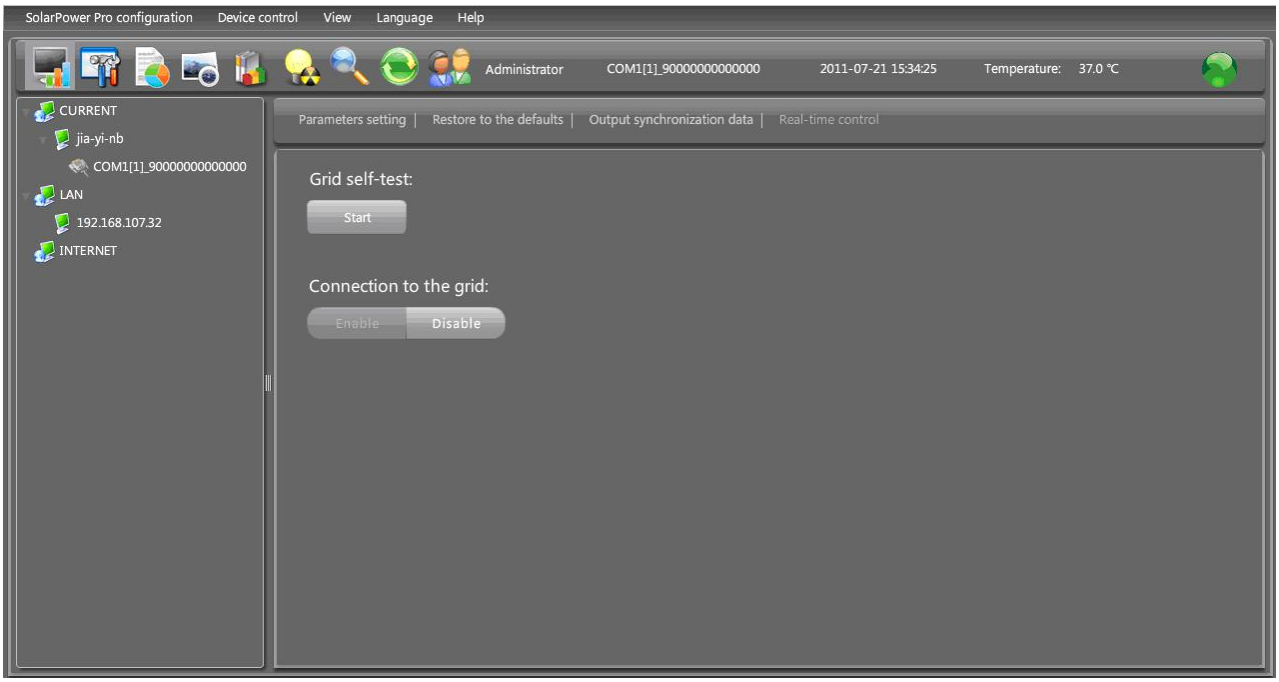


Diagram 4-15

4.3. View

4.3.1. Status

This function is to display power flow, basic information, and power generation of current monitored solar inverter.

Select View >> Status or click shortcut icon . Refer to Diagram 4-16.

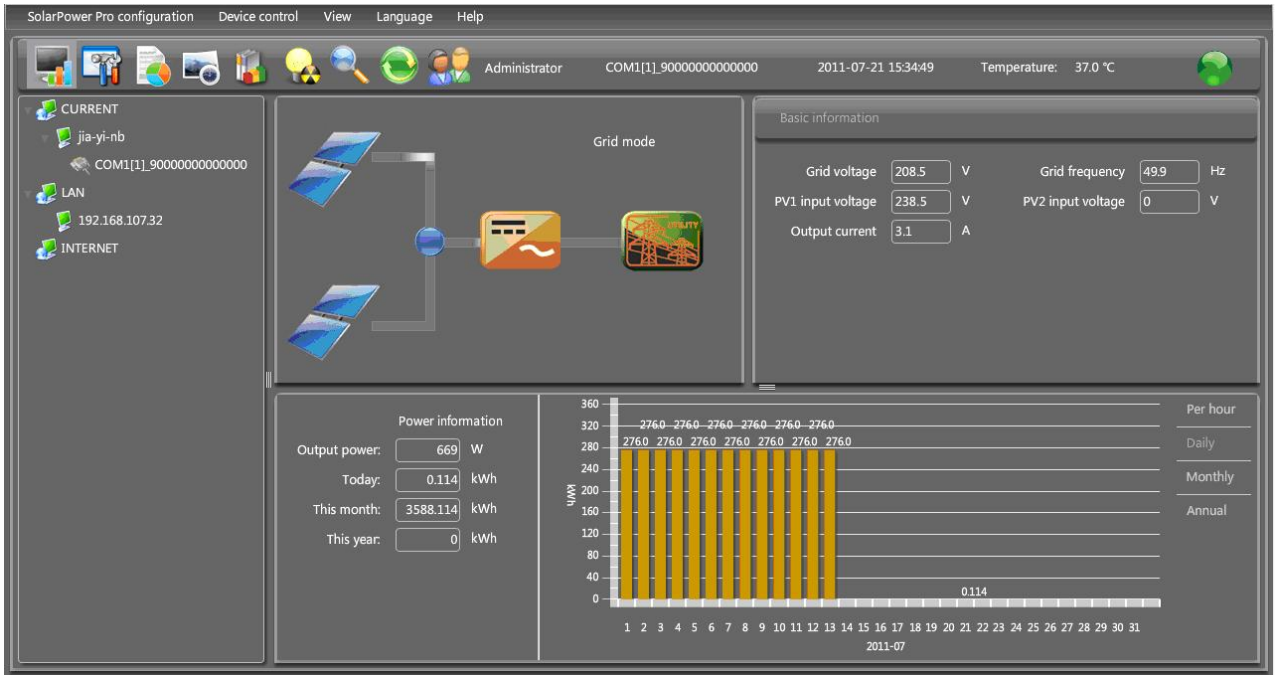


Diagram 4-16

1. Power flow:

Power flow chart includes solar module icon, solar inverter icon, and the utility icon. Solar module icon presents the numbers of MPP defined by solar inverter.

When this device successfully connects to the grid, there will be power flow animation from solar modules to the utility. If there any fault or abnormal situation occurs in solar inverter or the utility, the power flow animation will stop.

When fault occurs in solar inverter, the icon of solar inverter will flash until the fault is solved.

When there abnormal situation occurs in the utility, the utility icon will flash until the fault is solved.

2. Basic Information:

This page is to display the current working data based on different types of monitored inverter. The major displayed information includes grid voltage, grid frequency; PV input voltage and Output current.

3. Power Information:

Power information displays real-time output power factor, power generation on recent date, month and year.

Power generation chart:

- Display hourly power generation on current date when selecting "per hour";
- Display daily power generation on current month when selecting "daily";
- Display monthly power generation on current year when selecting "monthly";
- Display annual power generation since the year to purchase the device when selecting "annual".

4.3.2. Power generation log data

This function is to browse, calculate, or delete power generation data in the datasheets.

- **Datasheets**

Select View >>Power generation log data>>Datasheets or click shortcut icon . Refer to Diagram 4-17.

Select browsed device and period. Then, click "Browse" to get result.

- **"Delete":** Select specific data and click "Delete" button to delete the record.
- **"Export":** Click "Export" button to save listed table to local PC in HTML file.

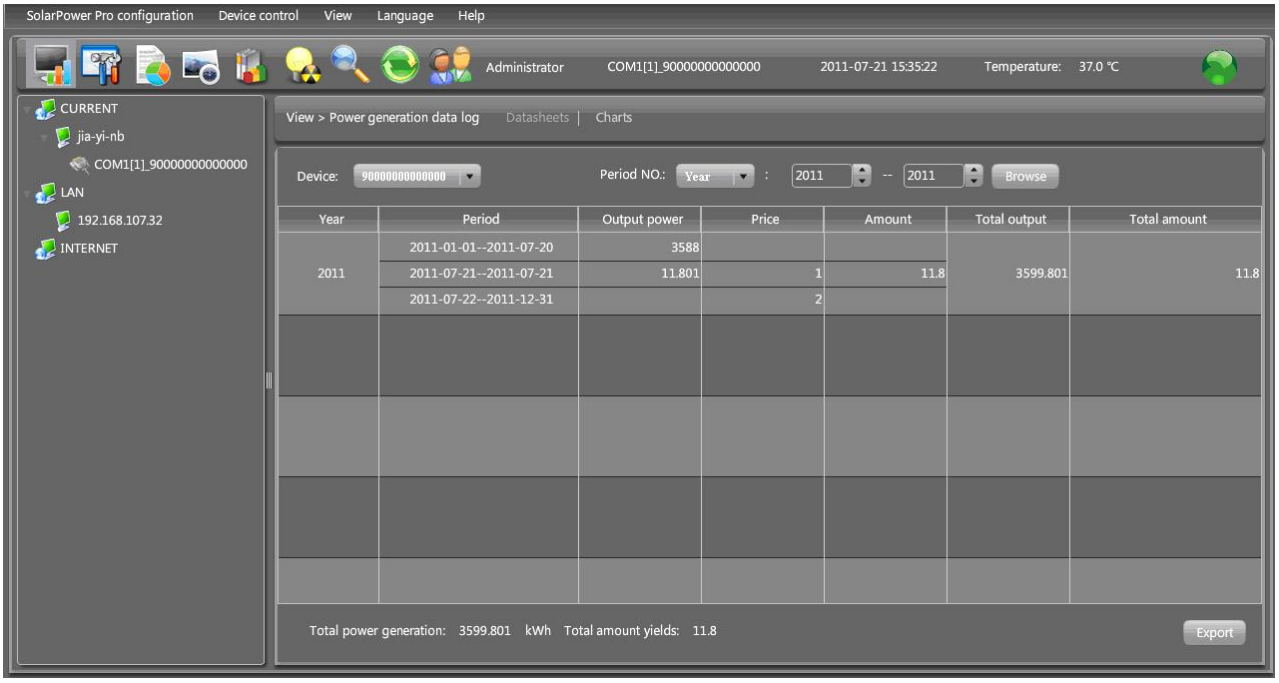


Diagram 4-17

- **Charts**

Select View >> Power generation log data >> Charts. Refer to Diagram 4-18.

Select browsed device and period. Click "Browse" to get result.

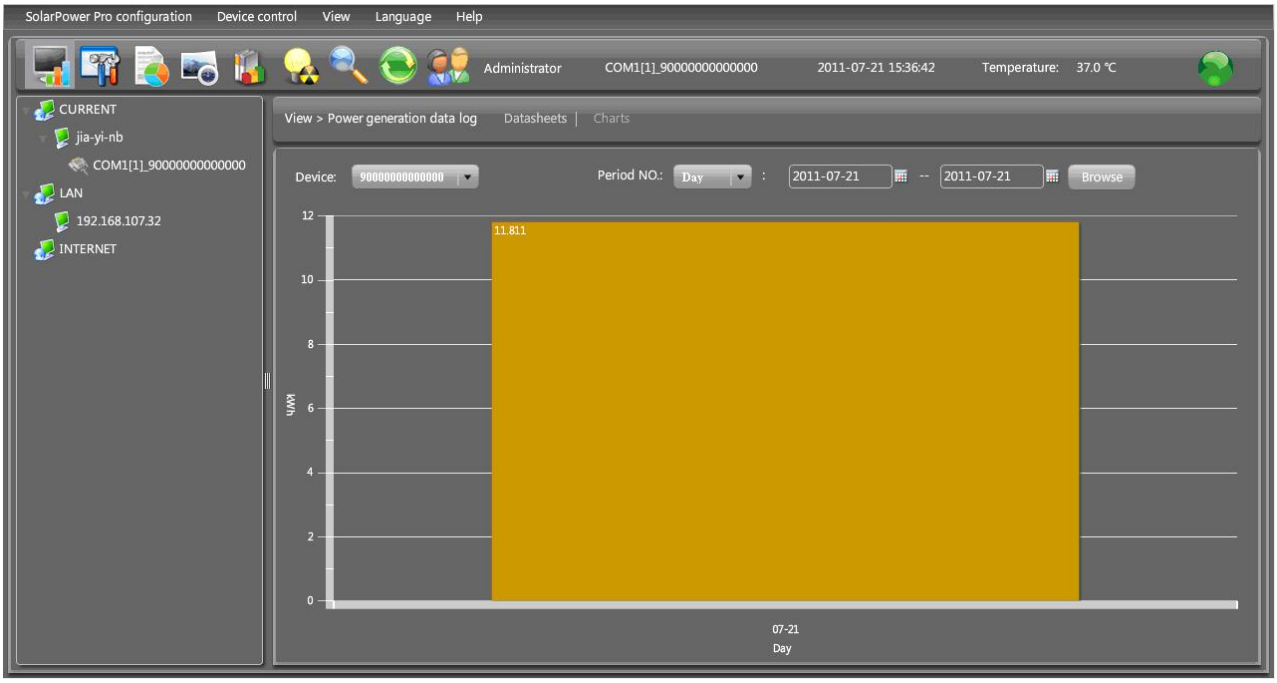


Diagram 4-18

4.3.3. Data

This function is to browse the working data of solar inverter saved in datasheets.

- Datasheets

Select View >>Data>>Datasheets or click shortcut icon . Refer to Diagram 4-19.

Select browsed device and period to display in the screen. Click "Browse" to get result.

- **"Print":** Print the listed data table.
- **"Delete":** Select specific data and click "Delete" button to delete the record.
- **"Delete all":** Click "Delete All" button to delete all records on the listed table.
- **"Export":** Click "Export" button to save listed table to local PC in .PDF file.

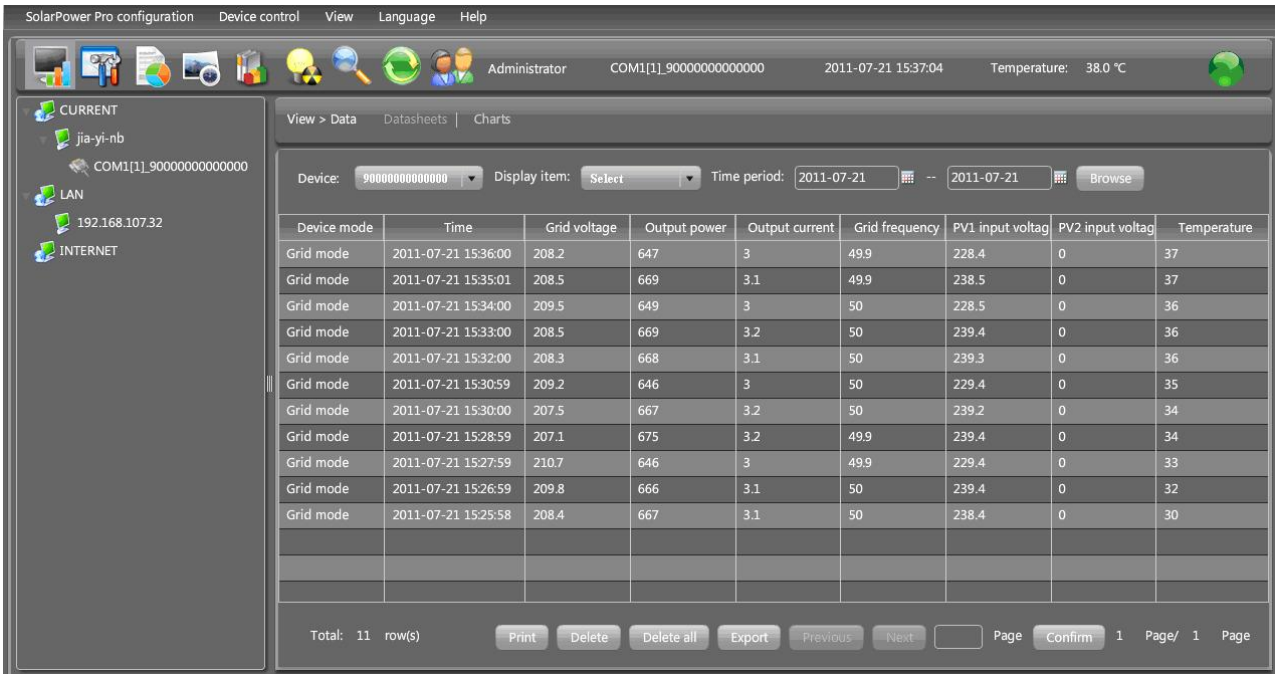


Diagram 4-19

NOTE: It can display 1500 logs in one page. Click "Previous" or "Next" button to browse other records. Or enter specific page number directly.

- **Charts**

Select View >>Data>>Charts. Refer to Diagram 4-20.

Select browsed device and period and then click "Browse" to get the result.

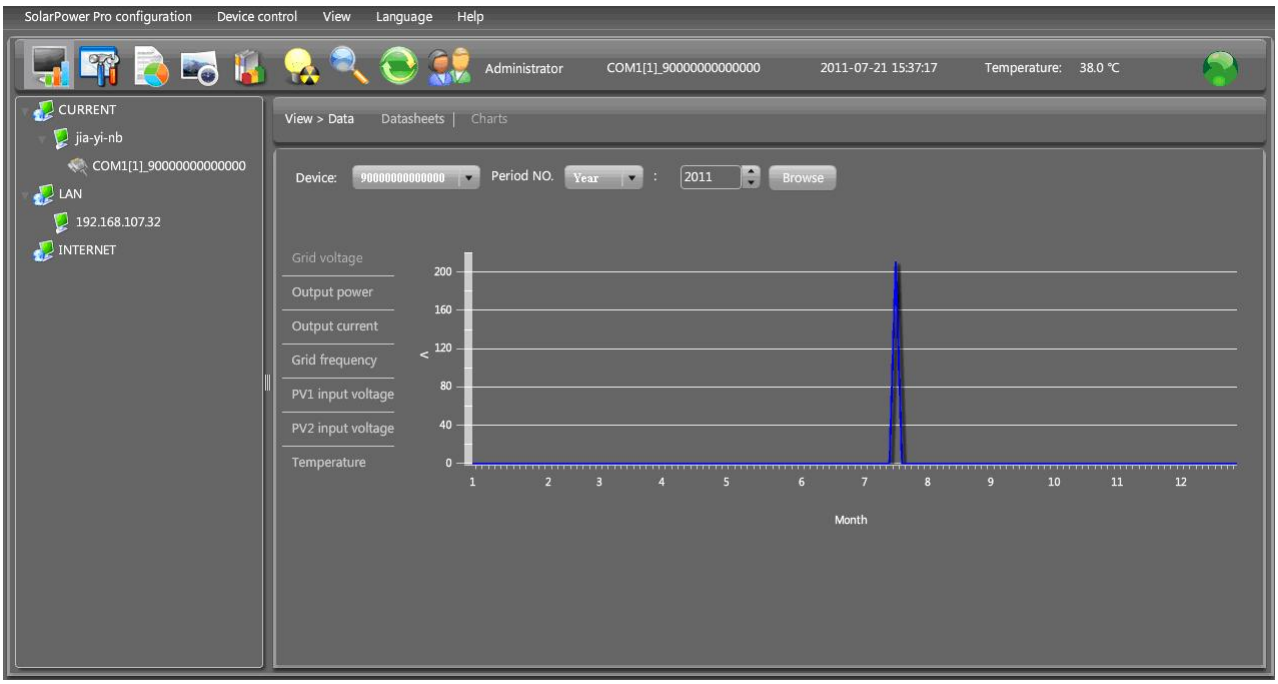
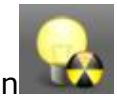


Diagram 4-20

4.3.4. Fault data log

Select View >>Fault data log or click shortcut icon  . Refer to Diagram 4-21.

Fault data log is to record last data before solar inverter occurs fault.

- **"Delete":** Select specific data and click "Delete" button to delete the record.
- **"Delete all":** Click "Delete All" button to delete all records on the listed table.
- **"Export":** Click "Export" button to save listed table to local PC in .CSV file.

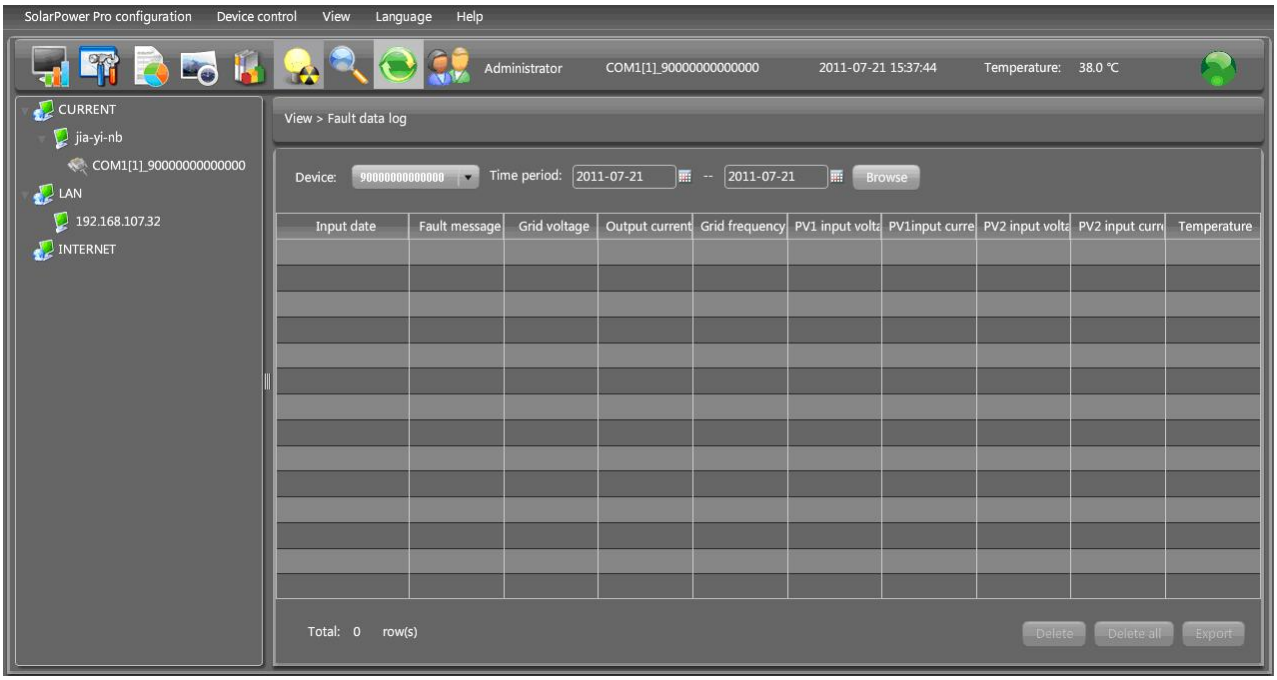


Diagram 4-21

4.3.5. Event log

Select View >>Event log or click shortcut icon to enter event log.

It's to record history events. Users can browse event list according to date. It lists all detailed information and statistics for history events. Refer to Diagram 4-22.

- **"Delete":** Select specific data and click "Delete" button to delete the record.
- **"Delete all":** Click "Delete All" button to delete all records on the listed table.
- **"Export":** Click "Export" button to save listed table to local PC in .CSV file.

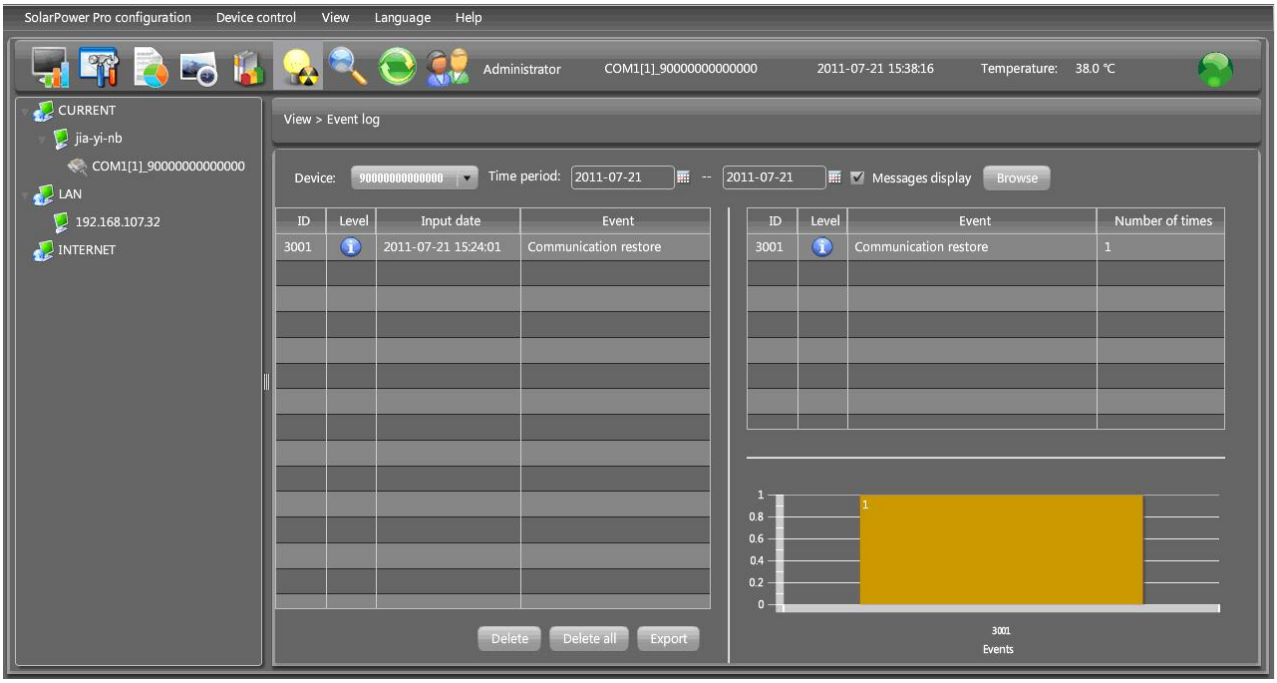


Diagram 4-22

4.4. Log in and Log out

Icon to display users don't log in SolarPower Pro

Icon to display users has logged in SolarPower Pro

Click icon and enter password to login the software. The default password is "administrator". Refer to Diagram 4-23.

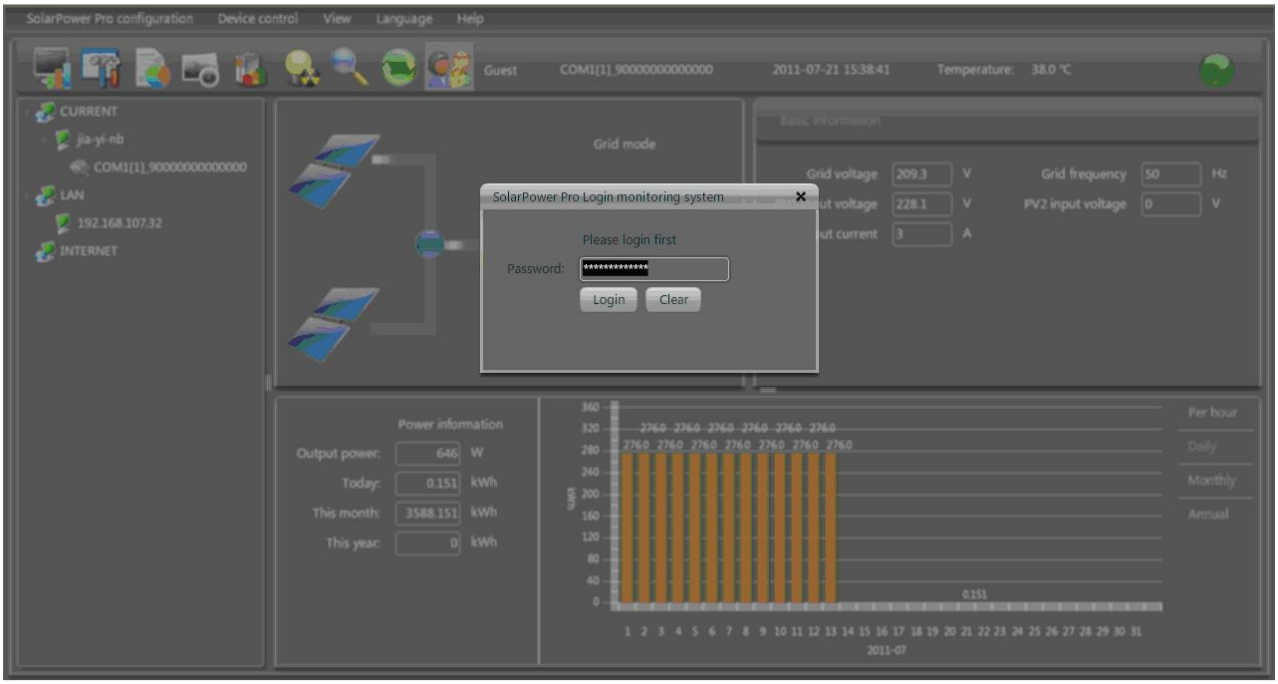


Diagram 4-23

Click icon to log out. Refer to Diagram 4-24.

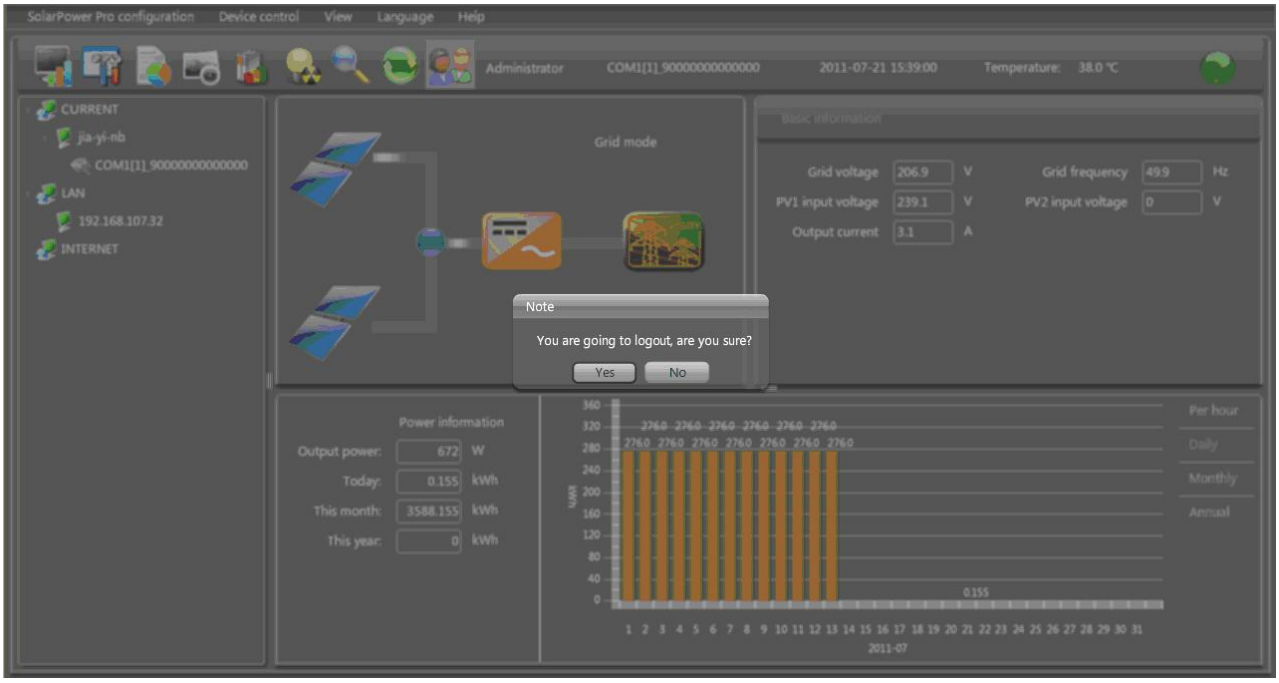


Diagram 4-24

4.5. Refresh

Click icon to refresh screen. Refer to Diagram 4-25.

Diagram 4-25

NOTE: After refresh, system will restore to not logged status.

4.6. Searching

Step 1 Click icon to search solar inverters. Refer to Diagram 4-26.

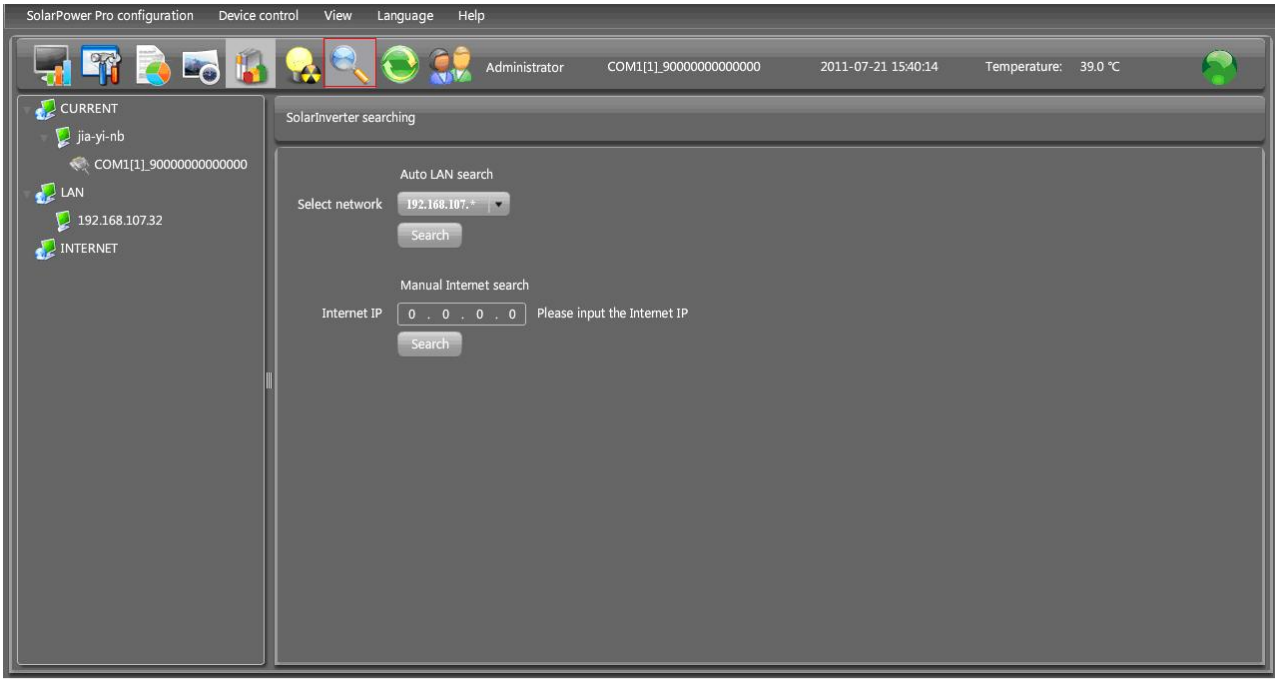


Diagram 4-26

Step 2 Select LAN band for LAN search or enter IP address for INTERNET search.

Step 3 Click "search" button and the system will start search devices. All devices found in LAN or INTERNET will be listed in Solar Inverter Navigation section.

4.7. Warning messages

When fault occurs in solar inverter, LED located on the top right corner will become red to warn users. When warning occurs, it will become yellow. At this time, click LED icon to pop up warning message board. Refer to Diagram 4-27.

- Green LED: Normal operation
- Yellow LED: Warning reminder
- Red LED: Fault alarm

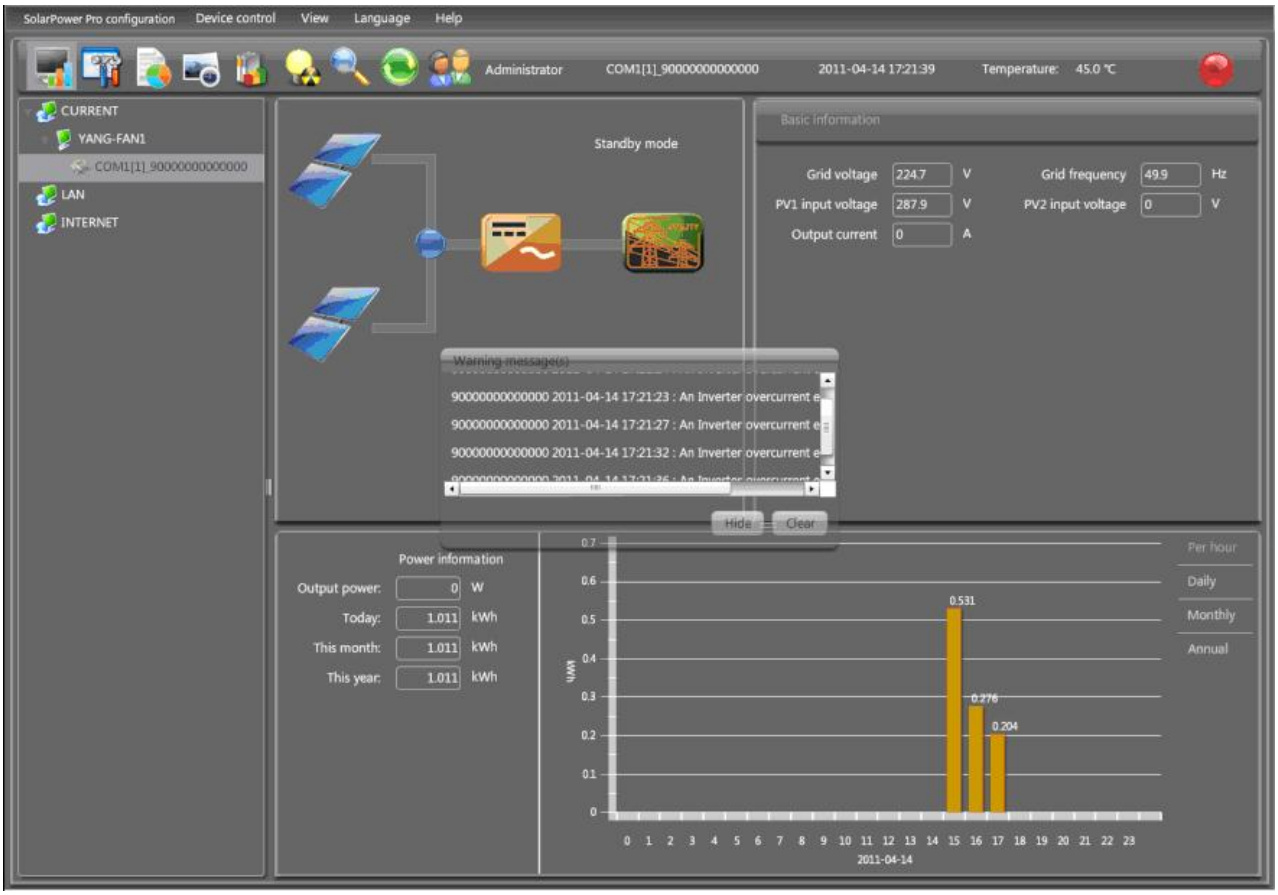


Diagram 4-27

4.8. Solar Inverter Navigation

It displays all device found through searching function.

CURRENT means currently connected PC and Solar Inverter device

LAN means connected PCs and Solar Inverter devices in local area network

INTERNET means connected PCs and Solar Inverter devices in wide area network

NOTE: The definition of LAN and INTERNET depends on the local PC location.

4.8.1. Monitored Device Information

This screen will display basic information of monitored device, including Product information, Rated information, and Purchasing information. Refer to Diagram 4-28.

- Product information include: Model type, Topology, Main CPU processor version, Secondary CPU processor version, Output phase, Nominal input voltage, Nominal output voltage, and so on.
- Rated information include: Nominal output power, Nominal grid-connected

voltage, Nominal grid-connected frequency, Nominal grid-connected current, Maximum input current for each PV, Number of maximum-power-tracing units, and so on.

- Purchasing information include: Purchasing date, Warranty for device, Device P/N, and so on.

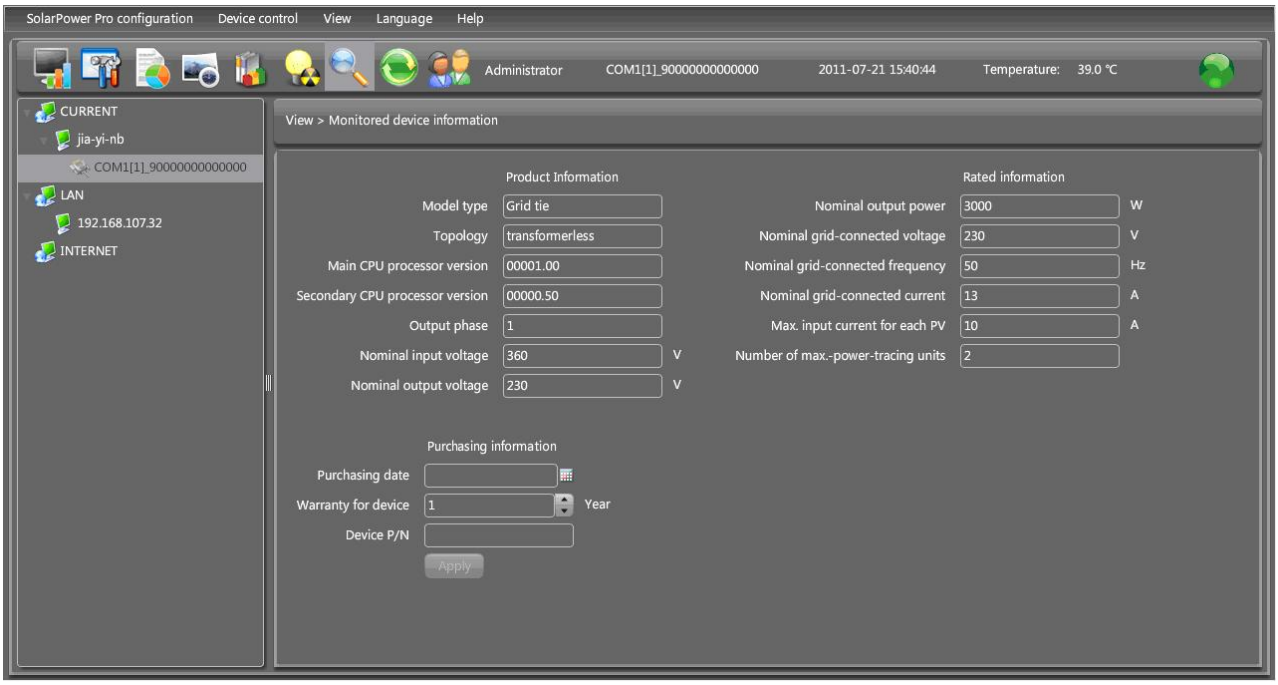


Diagram 4-28

NOTE: This screen may be different for different types of solar inverters.

4.9. Language

Currently, software offers some languages for selection:

√ Chinese(Simplified)

√ Chinese(Traditional)

√ English

√ German

√ Italian

√ Polish

√ Portuguese

√ Russian

√ Spanish

√ Turkish

√ Ukrainian

√ French

When first using the software, it will search proper language to display according to OS language.

4.10. Help

- **About**: Click "Help" menu and select "About" item. It represents the copyright information about software
- **Help**: Click "Help" menu and select "Online help" item. It will open the help manual. Before operating software, please read manual carefully.