

# **BMDM-S01 Software User's Guide**



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## 1 Overview

BMDM-S01 is software of battery monitor data manager without a database and can be applied to H3G series products. The software is used to read data from the device, issued an order to modify the parameters, analyze data, and print and export functions.

Compared with other software of Huasu, BMDM-S01 has the following features:

- Usually used for group of not more than 100 strings, the software installation is simple and easy to maintain.
- Need to install software on each user terminal, supports up to three user terminals.
- Software without a database ,and all data directly read from the device.
- Usually used for the data center of the battery monitoring.

## 2 Software and Documentation

The followings should be prepared before installation.

NO.	Item
1	BMDM-S01 software package
2	"BMDM-S01 User's Guide" (this file)

## 3 Computer Requirements

### 3.1 Hardware Requirements

CPU:	P4	or higher
Memory:	512M	or higher
Hard disk:	100G	or higher

### 3.2 Software Requirements

One of the following operating systems should have been installed in the computer:

Windows 2000、XP、VISTA or Windows 7

## 4 Installation of BMDM-S01

### 4.1 BMDM-S01 Software Package

BMDM-S01 software package includes an executable file of "BMDM-S01.exe" and the related data files.

### 4.2 Installation

By the following method to install the software:

1. Copy the package to the D drive or E under the root directory.
2. Enter the package directory, click "BMDM-S01.exe" file, click the right mouse button to create a desktop shortcut,.
3. The installation is completed.

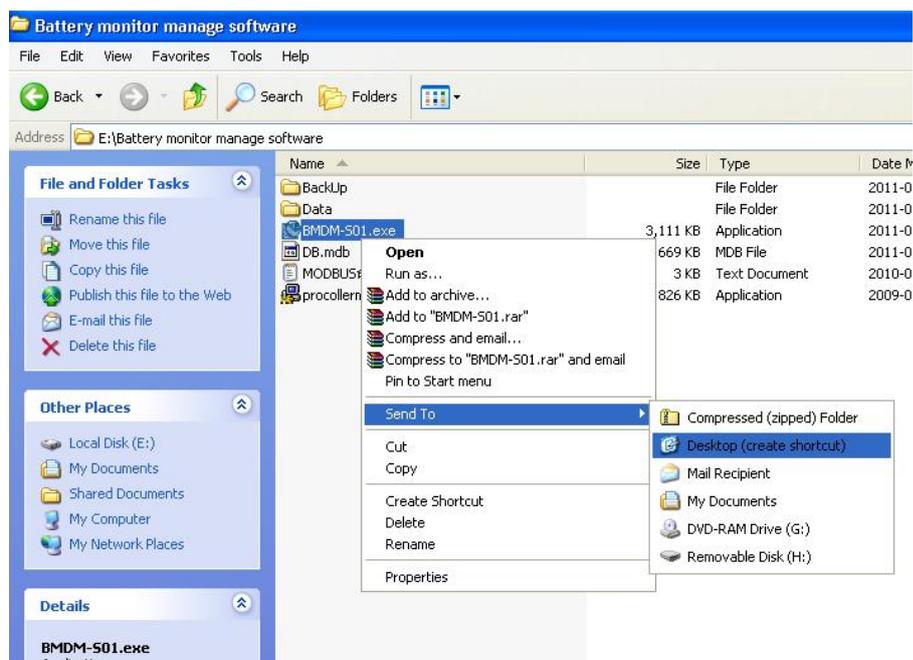


Figure 4-2-1

### 4.3 Connect the Compute

Using a RS485 cable or a RS232 cable or a RJ45 cable, connect the computer to the device. The details please see product manuals.

## 5 Use Software

### 5.1 Start the BMDM-S01

Click " BMDM-S01 " on the desktop, the **login** appears as the following.

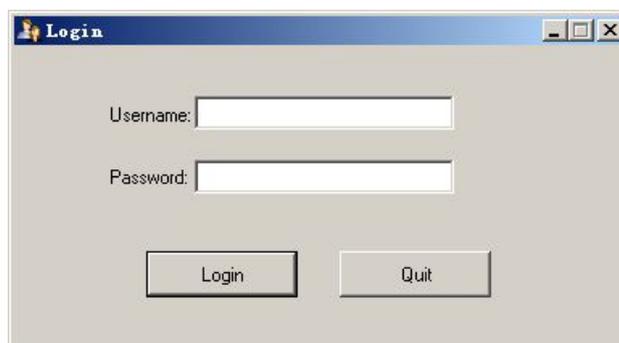


Figure 5-1-1

Enter the user and password specified, the default administrator user name and password are "admin".

### 5.2 Parameter Set

At first use or to add new strings, need to set parameters.

1. Click the button of **Parameter set** on the left up, the **Parameter set** appears as the following.

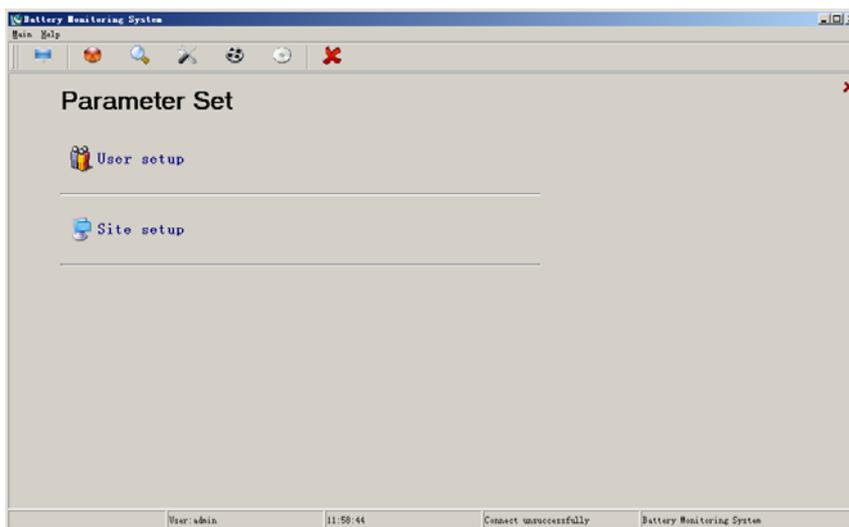


Figure 5-2-1

2. Click **Site setup**, the **Site setup** appears as the following.

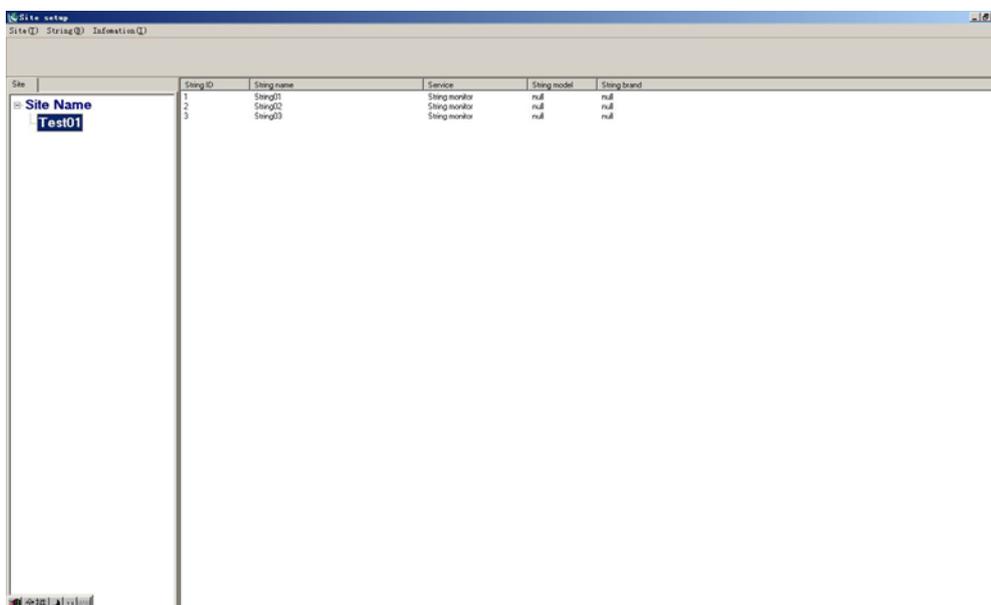


Figure 5-2-2

3. Click **site name** on the tree, then click the right mouse button and choose **Add site**.

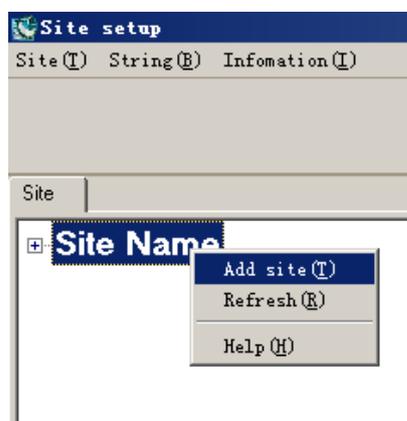


Figure 5-2-3

The Site appears as the following, and then enters names or numbers by the following.

**Site ID** - enter the ID of the site as 1 or 2 or other numbers. Site ID does not allow repeat.

**Site name** - enter the name of the site.

**Choose Comm or UDP** - choose Comm if connecting the computer to the device by Serial port, and choose UDP by NET port.

**Comm name** - choose the port used to connect the device.

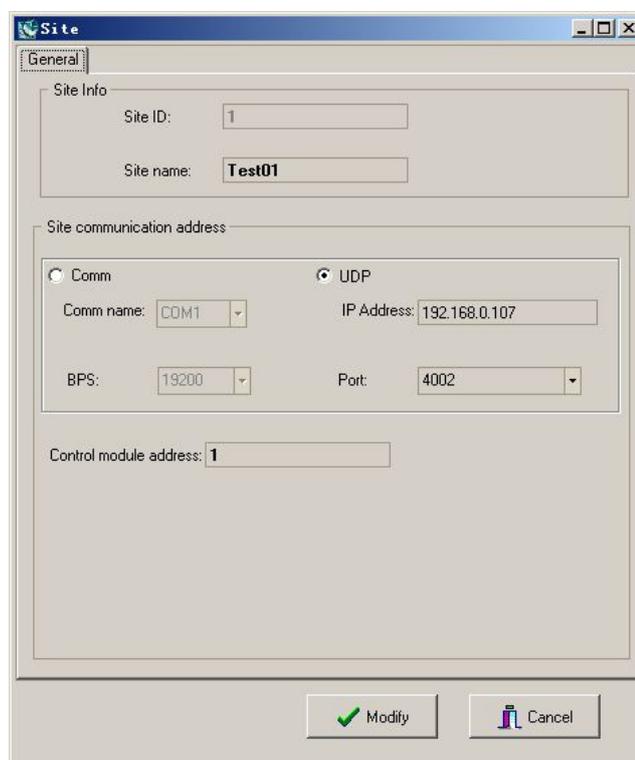
**BPS:** - choose 19200.

**IP Address** - enter the device's IP.

**Port** - enter 4001 or 4002 or 4003 according to the device setup.

**Control module address** - the default is 1.

Click Modify after finished, and a new site created.



The screenshot shows a window titled "Site" with a "General" tab. The "Site Info" section contains "Site ID: 1" and "Site name: Test01". The "Site communication address" section has two radio buttons: "Comm" (unselected) and "UDP" (selected). Below "Comm" is a "Comm name" dropdown menu showing "COM1". Below "UDP" is an "IP Address" text box containing "192.168.0.107". Below "Comm" is a "BPS" dropdown menu showing "19200". Below "UDP" is a "Port" dropdown menu showing "4002". At the bottom of the form is a "Control module address" text box containing "1". At the bottom of the window are two buttons: "Modify" (with a green checkmark icon) and "Cancel" (with a red X icon).

Figure 5-2-4

Click the new site name and move cursor to right side, and click the right mouse button to choose **Add string**.

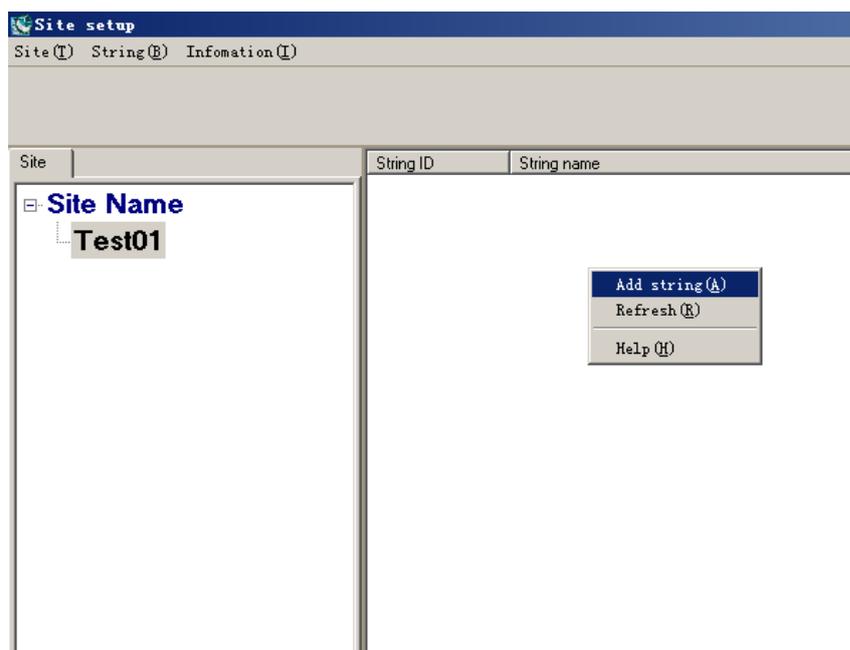


Figure 5-2-5

The **String** appears as the following, and then enters names or numbers by the following.

**String ID** - enter the ID of the string, and the ID usually begins form 1.

**String name** - enter the name of the string.

**Cell brand** - enter the name of cell manufacturer

**Cell model** - enter the model of the cells

**Cell use date** - enter the date of cell put into operation

**Qty** - enter cell number of the string

**Inter-cell resistance Qty** - enter the number of intercell which set to be monitored. If the device don't monitor intercell the Qty should be enter 0.

**Cell temperature Qty** - enter the number of cell temperature which set to be monitored. If the device don't test it the Qty should be enter 0.

**Rated capacity** - enter the rated capacity of the cell.

**Remark** - anything else concerning the string may be entered.

Click **Modify** after finished, and a new string created.



Figure 5-2-6

### 5.3 View Real-time Data

After finished Parameter set, Click the button of **String status** on the left up, the **String status** appears as the following.

The string status screen displays the strings last known status. A blue lamp means the measurement item is normal, and It will become a red lamp when alarm. This string status will be refreshed in about 30 seconds automatically.

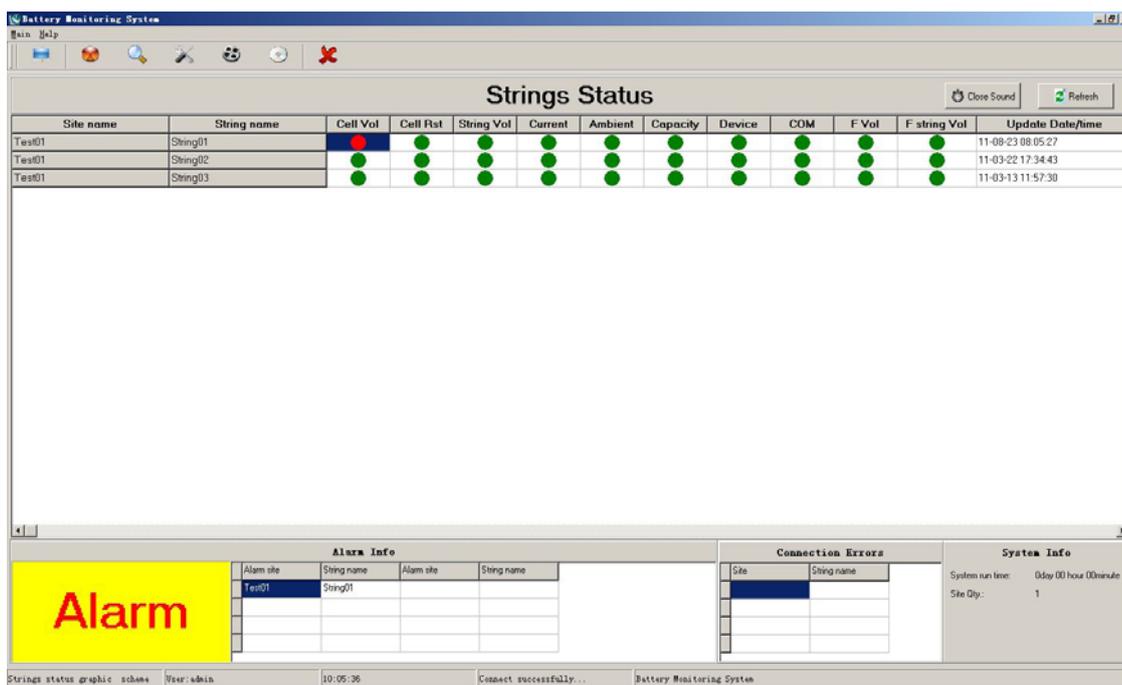


Figure 5-3-1

Click the string name, the real-time data of this string appears. The data can be displayed as graph or histograms .the data also can be exported or printed.

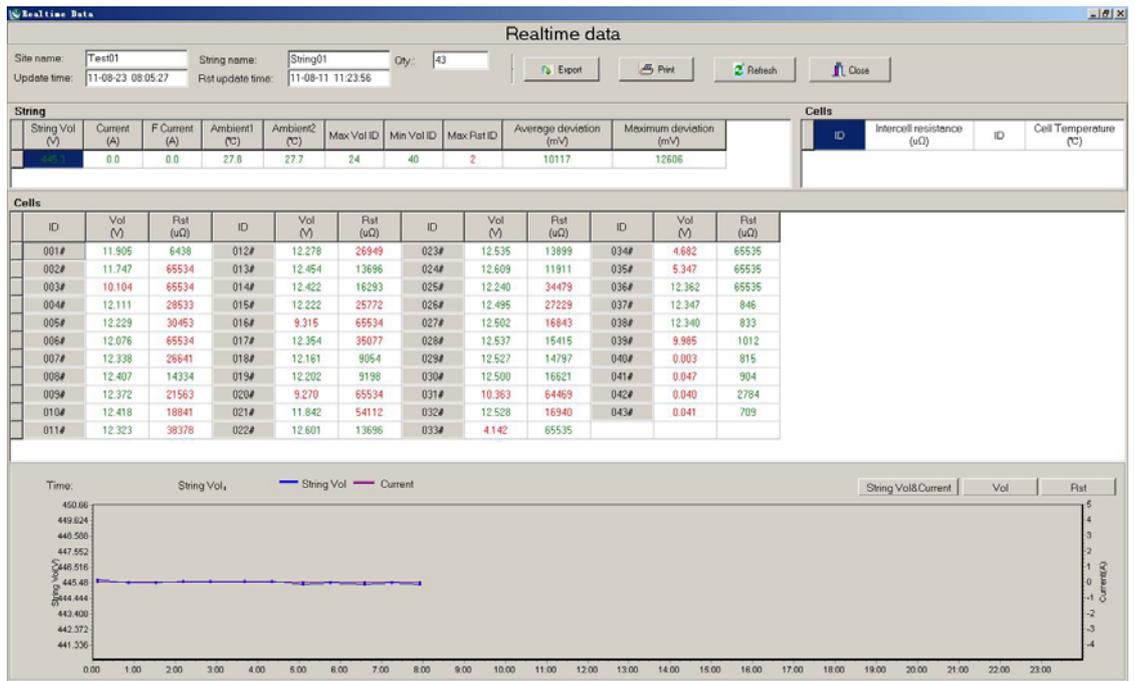


Figure 5-3-2

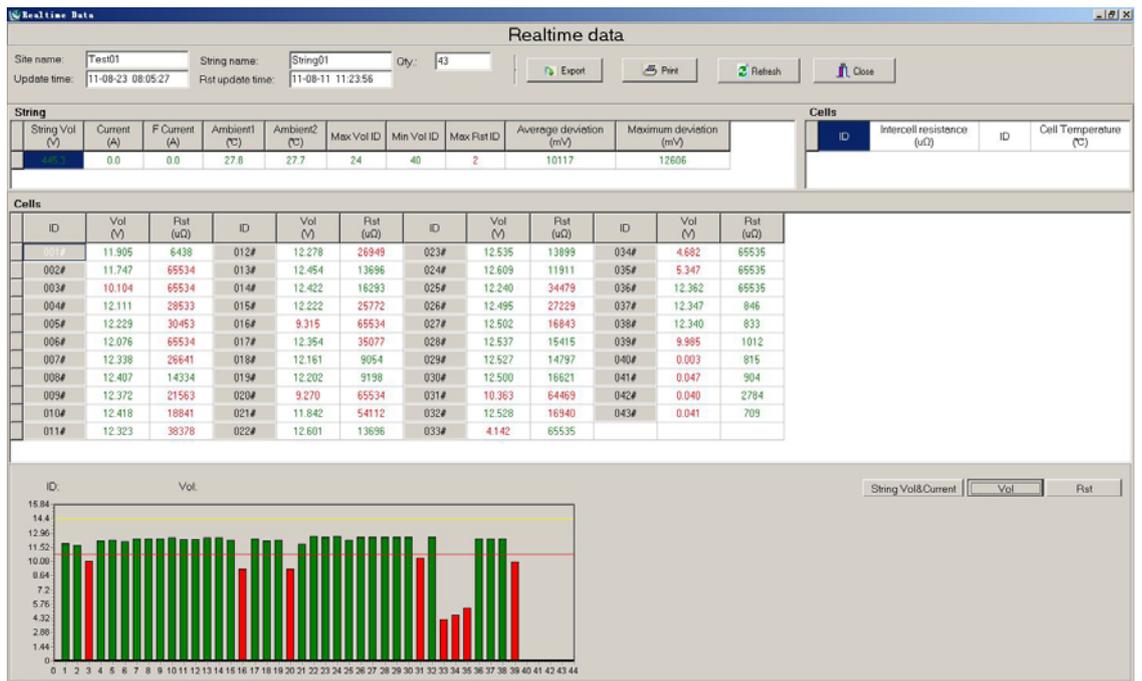


Figure5-3-3

### 5.4 View History Data

Click the button of **history data** on the left up, the **history data** appears as the following.

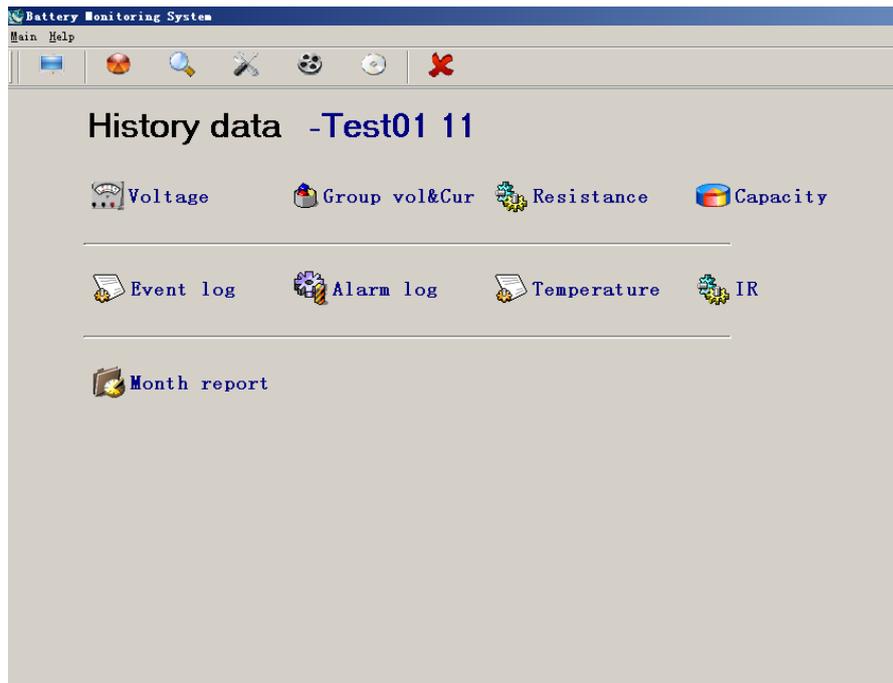


Figure 5-4-1

Click the items, the details will be appeared.

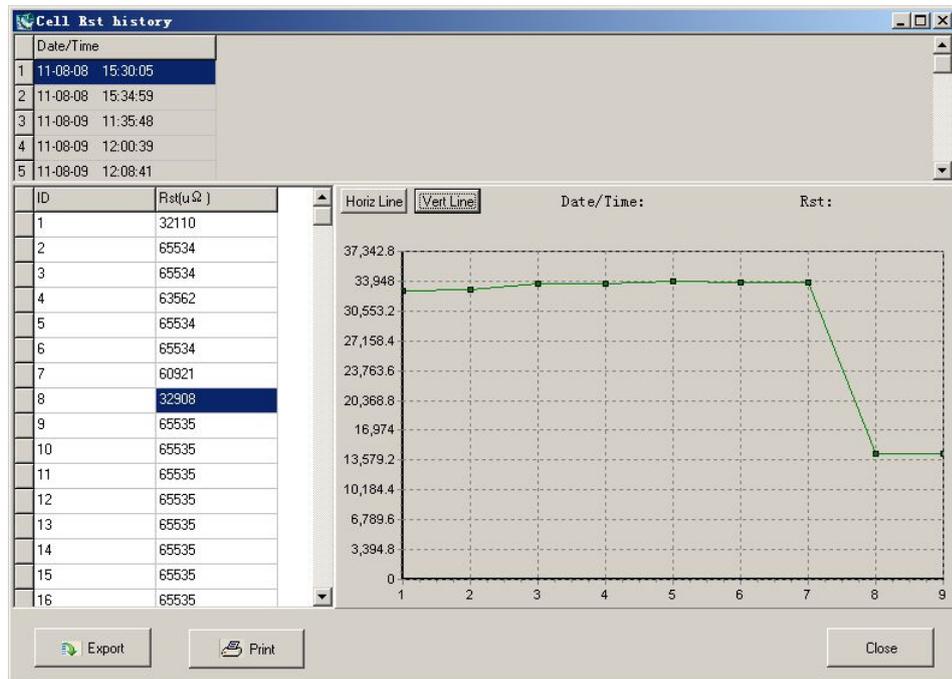


Figure 5-4-2

The screenshot shows a window titled "Cell Vol history" with two tables and three buttons at the bottom.

	Date/Time	String Vol(V)	Current(A)	Ambient(°C)
1	11-08-22 15:28:20	445.9	0.0	29.4
2	11-08-22 16:08:13	446.0	0.0	29.5
3	11-08-22 16:53:05	446.0	0.0	29.5
4	11-08-22 17:32:59	445.8	0.0	29.5
5	11-08-22 18:22:50	445.9	0.0	29.4
6	11-08-22 19:02:43	445.8	0.0	29.3
7	11-08-22 19:42:35	446.1	0.0	29.3

ID	Vol(V)
1	11.909
2	11.763
3	10.206
4	12.123
5	12.235
6	12.099
7	12.343
8	12.412
9	12.377
10	12.422
11	12.328
12	12.284
13	12.459
14	12.425

Buttons: Export, Print, Close

Figure 5-4-3

The screenshot shows a window titled "Alarm log" with a table of alarm events and three buttons at the bottom.

Date/Time	Alarm type1	Alarm type2	ID	Alarm content	Alarm value
11-08-17 12:16:05	General	String exception	043	Cell Vol alarm	7.202V
11-08-17 12:16:05	General	String exception	044	Cell Vol alarm	0.000V
11-08-17 12:27:58	General	String exception	000	String Vol alarm	488.8V
11-08-17 12:27:58	General	String exception	003	Cell Vol alarm	10.488V
11-08-17 12:27:58	General	String exception	020	Cell Vol alarm	9.795V
11-08-17 12:27:58	General	String exception	031	Cell Vol alarm	10.424V
11-08-17 12:27:58	General	String exception	033	Cell Vol alarm	4.171V
11-08-17 12:27:58	General	String exception	034	Cell Vol alarm	5.830V
11-08-17 12:27:58	General	String exception	035	Cell Vol alarm	5.285V
11-08-17 12:27:58	General	String exception	039	Cell Vol alarm	9.998V
11-08-17 12:27:58	General	String exception	042	Cell Vol alarm	5.422V
11-08-17 12:27:58	General	String exception	043	Cell Vol alarm	7.206V
11-08-17 12:27:58	General	String exception	044	Cell Vol alarm	0.000V
11-08-17 12:43:44	General	String exception	000	String Vol alarm	488.6V
11-08-17 12:43:44	General	String exception	003	Cell Vol alarm	10.484V
11-08-17 12:43:44	General	String exception	020	Cell Vol alarm	9.795V
11-08-17 12:43:44	General	String exception	031	Cell Vol alarm	10.420V

Buttons: Export, Print, Close

Figure 5-4-4

Date/Time	Alarm type1	Alarm type2	ID	Alarm content	Alarm value
11-08-17 12:16:05	General	String exception	043	Cell Vol alarm	7.202V
11-08-17 12:16:05	General	String exception	044	Cell Vol alarm	0.000V
11-08-17 12:27:58	General	String exception	000	String Vol alarm	488.8V
11-08-17 12:27:58	General	String exception	003	Cell Vol alarm	10.488V
11-08-17 12:27:58	General	String exception	020	Cell Vol alarm	9.795V
11-08-17 12:27:58	General	String exception	031	Cell Vol alarm	10.424V
11-08-17 12:27:58	General	String exception	033	Cell Vol alarm	4.171V
11-08-17 12:27:58	General	String exception	034	Cell Vol alarm	5.830V
11-08-17 12:27:58	General	String exception	035	Cell Vol alarm	5.285V
11-08-17 12:27:58	General	String exception	039	Cell Vol alarm	9.988V
11-08-17 12:27:58	General	String exception	042	Cell Vol alarm	5.422V
11-08-17 12:27:58	General	String exception	043	Cell Vol alarm	7.205V
11-08-17 12:27:58	General	String exception	044	Cell Vol alarm	0.000V
11-08-17 12:43:44	General	String exception	000	String Vol alarm	488.6V
11-08-17 12:43:44	General	String exception	003	Cell Vol alarm	10.484V
11-08-17 12:43:44	General	String exception	020	Cell Vol alarm	9.796V
11-08-17 12:43:44	General	String exception	031	Cell Vol alarm	10.420V

Figure 5-4-5

### 5.5 Cell Resistance Test

The resistance test will be performed once a month automatically. If a manual test needed, Click the button of **string test** on the left up, the **string test** appears as the following.

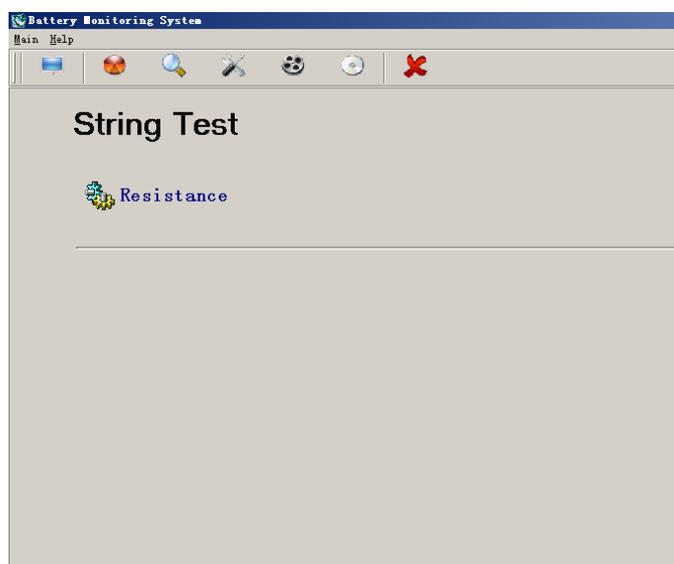


Figure 5-5-1

Click **Resistance**, the resistance test will be performed. It takes about 10 minutes to finish a whole resistance test for a string. After completed the test, the latest cell resistance data can be read in the real-time data page.

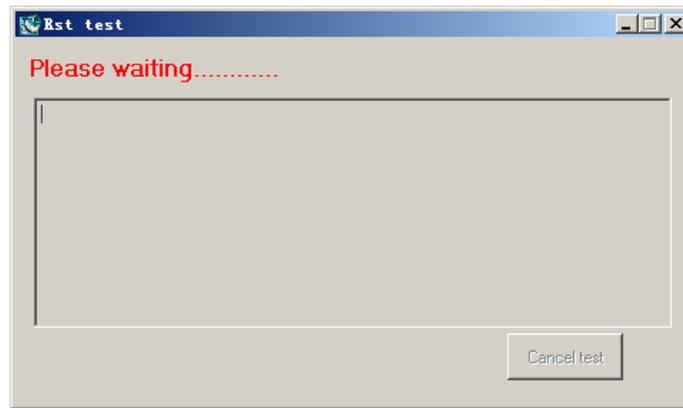


Figure 5-5-2

## 6 Trouble Shooting