Batt Manager Battery Monitor & Manager for Data Center Power System

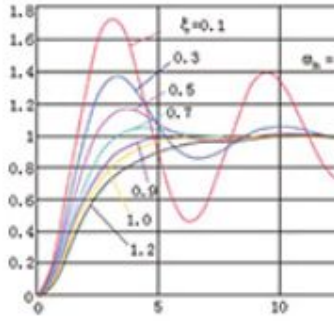
Overview

Wireless battery monitoring system support UPS battery pack monitoring of voltage, current, capacity, backup time, attenuation rate, temperature, etc, and support single battery monitoring of voltage, internal resistance, temperature etc.

This system can accurately report battery capacity attenuation ratio, predict discharge time , discharge backup time, regular charge/discharge promote etc, greatly help administrators understand the battery quality and catch UPS battery operating status, so will help to do efficient maintenance and find out the hidden danger in early time. Also, Richcomm use the newest zigbee connection, which is more easier and convenient for installation and maitenance. The wireless battery monitoring system no doubt is your best chance for UPS battery monitoring and maintenance.

1. Features

① Smart Self-learning Function



- Report Charging Percentage of Battery Pack

Exactly report the battery pack charge percentage, can timely get battery charge status

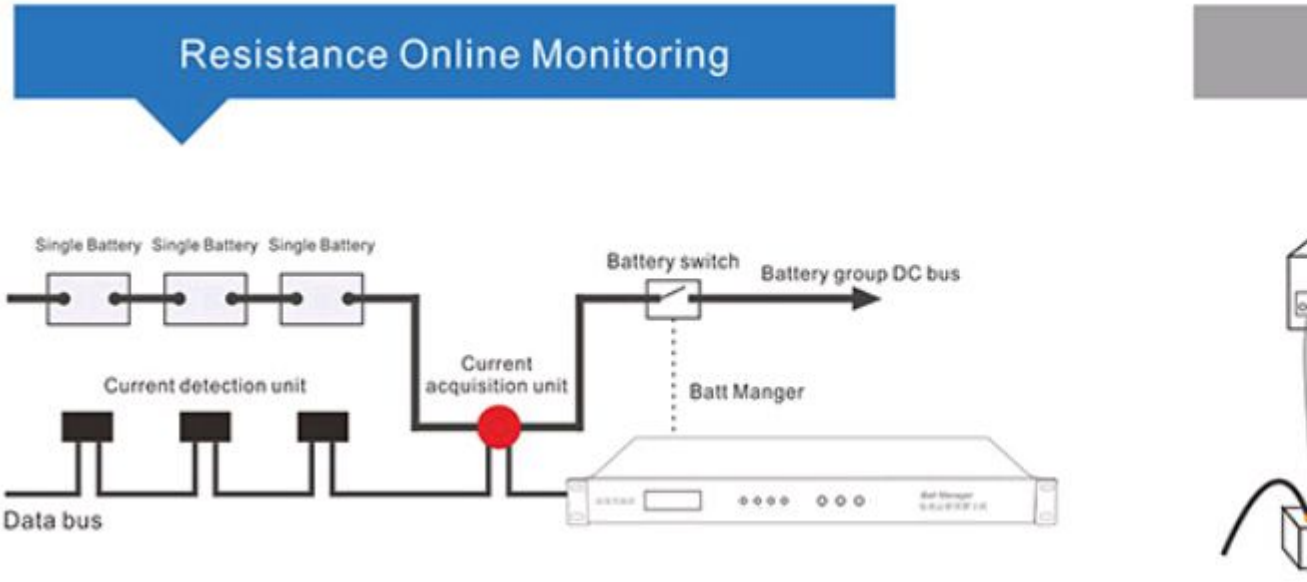
- Report Discharge Time of Battery Pack

Automatically calculate and adjust backup time display when battery discharge

- Report Capacity Atte Ratio of Battery Pac

Automatically calculate ba pack capacity attenuation after multiple times of cha discharge

② Excellent Online Internal Resistance Monitoring



③ Smart Self-learning Function Web Interface

- Learn and record every battery discharging status, provide accurancy parameter predict for the next battery discharging.

④ Visual Web Management Function

- Through web browser to visit system, easily and convenient check the monitoring info and do function setting;
- One-key finish management setting, more fast and easier for setting and use.

⑤ Various Report Function(check history events, export reports, check system logs and inspection records)

- Anytime anywhere catch the battery operation status, can provide compare and anaysis for battery failtures

⑥ Various Alarm Self Definition Setting

- Can according to personal demands to choose suitable alarm objects,levels, ways, meanwhile, system provide alarm test to ensure valid alarm.

2. Functions

- Built-in WEB server to achieve HTTP access;
- Built in dual-frequency GSM/GPRS module(900/1800 MHZ);
- Realtime monitoring for battery operation to get early warning for failture, and s upport battery failture detection and battery pack management;
- Advanced mathematical algorithm to provide accurate information for battery op eration;
- Smart self-learning function
- Modular design, the host can be separately operated as a platform of battery operation maintenance
- and management;
- Battery detection intelligent terminal(BDIT) adopts unitbus mode, with its easy c onstruction and
- high reliability can monitor hundreds of batteries;
- Distributed design, BDIT unit-bus support the distance from host reach a length of 75M;
- Report the charging percentage of battery pack;
- Report the attenuation ratio of battery pack;

- Report the discharge backup time of battery pack;
- Support to use RS232 port to handle parameter configuration or program upgrad e for the host,
- also support to remote configuration or upgrade via network card. The RS232 po rt will auto off
- when plug-in network card;
- Support to use wireless to query the running status of battery pack, at the same ti me support remote query by network card;
- Support to connect 6 channels of BDIT(battery detection intelligent terminal) an d every channel can connect up to 40 BDIT, total up to 240;
- Support SMS, Email alarm;
- Support alarm battery battery detection;
- Each Batt Manager host support 240 nodes of single battery(2V/6V/12V)monitoring, for 1-6 packs;
- Support to detect voltage, current, temperature and resistance of each battery;
- Support SNMP management function.

3. Appearance

Back View

Front View

4. Ports Introduction

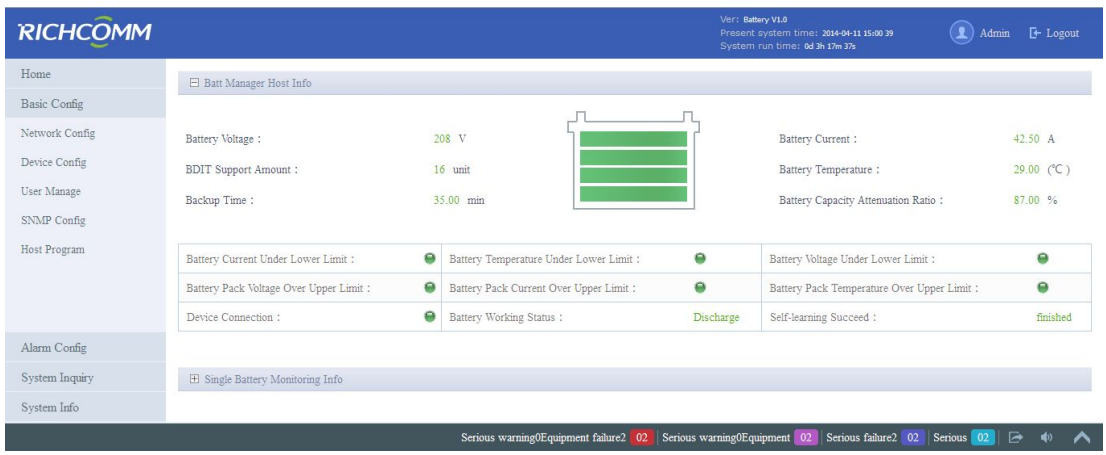
1. LCD Display
2. 4 LED Indicators: Run, COMM, BDIT, ERR
3. 3 Buttons:MENU, ENTER, ESC
4. Network Card Slot
5. SIM Slot
6. RS232 Serial Port
7. 2 Ports of RS-485_1RS-485_2 (for host computer)
8. RS485 Ports (connect BDIT module)
9. 1 Set of Configuration Dial Switch (for Current Sensor meature Range)
10. Current Sensor Port
11. Voltage Detection Port (for battery pack voltage detection)
12. Antenna
13. ON/OFF Switch
14. Power Port
15. DC Input

5. Network Diagram

6. Dimension

1U 19 inch elegant design

1. Interface



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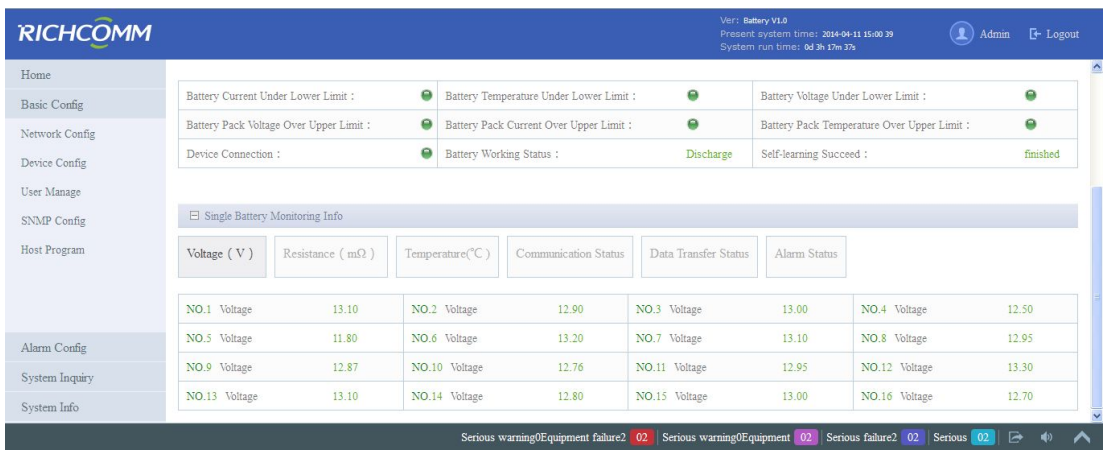

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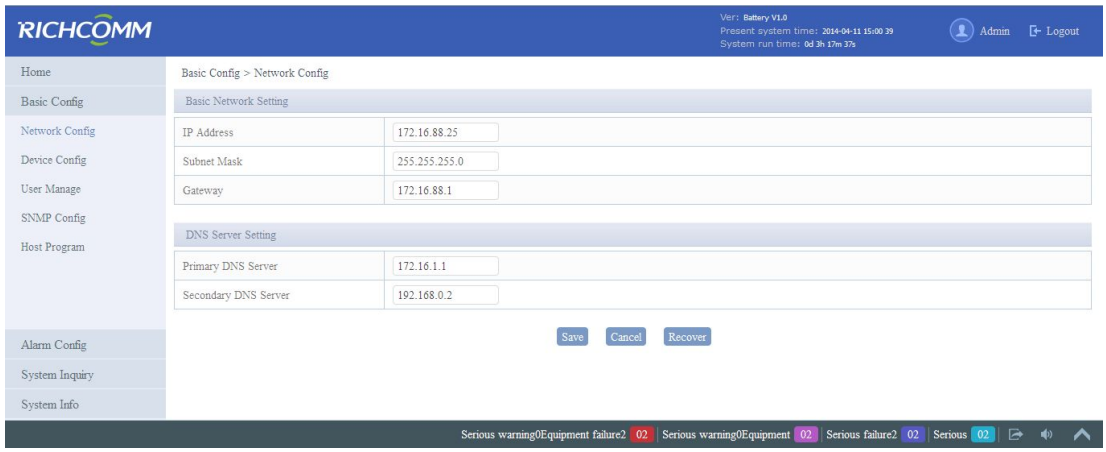

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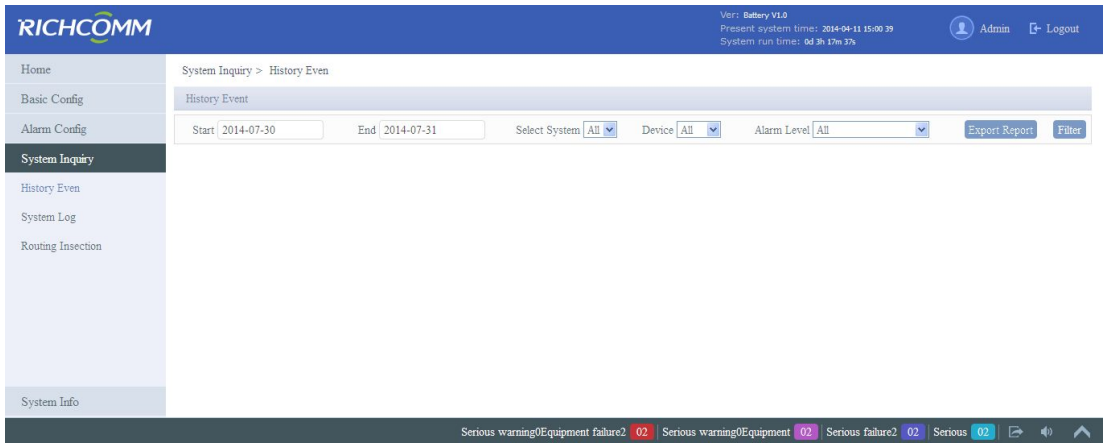

<history record>

2. Technical Parameters

7.1、 Batt Manager Host

Network Port	10M/100M Ethernet network
Serial Port	Parameter configuration ,program update via RS232 or network card
	query battery operation status via RS485 or network card
Input Range	AC voltage 100～240VAC，50/60Hz, DC voltage: 120～370VDC
Switching Power Output(3 channel)	5VDC/4A； 15VDC/2A； -15VDC/ 0.5A
Maximum Output Current/Voltage	2A/15V

Maximum	40W
Current Sensor Power Supply	±15V/0.3A
Browser Supported	Support Internet Explorer、Netscape browser
LED Indicator	Run、COMM、BDIT、ERR
Temperature/Humidity	Temperature: 0°C ～ 70°C
	Humidity: 10 ～ 80%
Monitoring Battery Pack Voltage	0—600V
Safety Certification	CE、FCC
Module Communication Port	Zigbee Transmission Port
Monitored Battery Amount	240 Nodes

7.2、 WBDIT(Wireless Battery Detection Intelligent Terminal)

Communication Port	Zigbee
Transmission Rate (bit/s)	250K (2.4G Frequency Range)
Transmission Range(m)	10-75
Transmitted Power (TX Power (dBm))	4.5
Voltage Detection Range	2V、6V、12V Optional
Deviation	±0.1 %
Addressing Mode	IEEEE Stanard802.15.4/Wireless Standard Address Modes
Spread Spectrum	DSSS
Network Capacity	Max 240 BDIT Modules