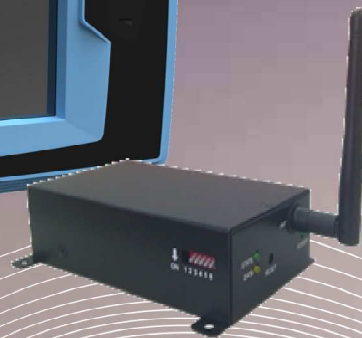
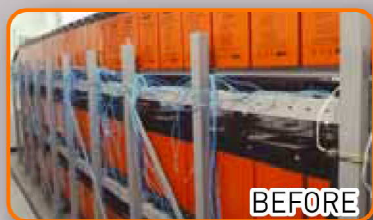


Enerbatt 3G Wireless Battery Monitoring System

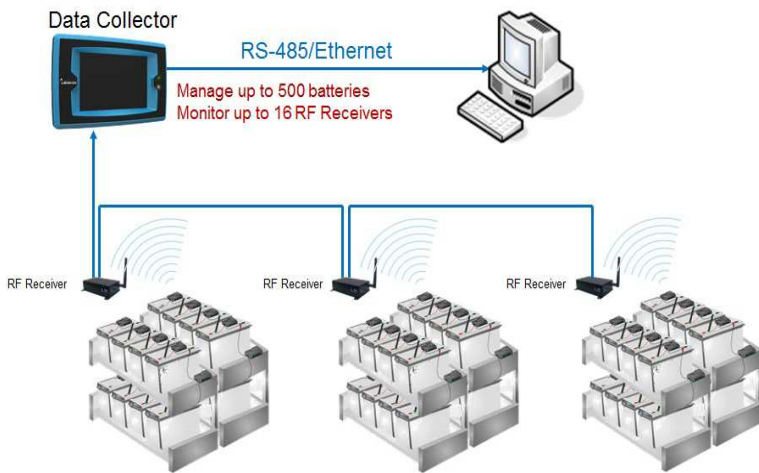
WIRELESS
Radio
Frequency
Monitoring



No More Messy Cables!



ENERBATT 3G

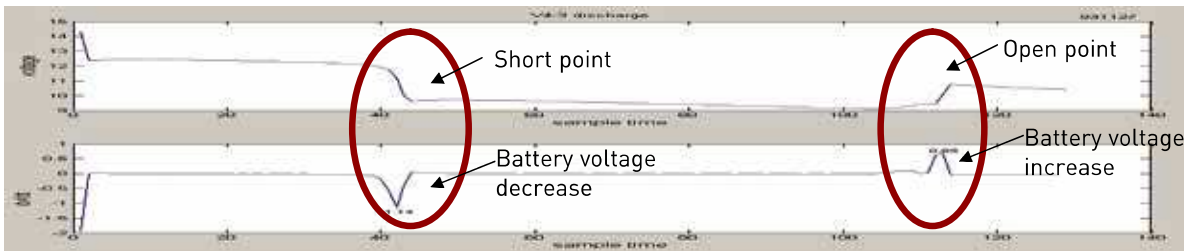


The Enerbatt 3G Battery Monitoring System is a complete solution for capturing important battery parameters at real time.

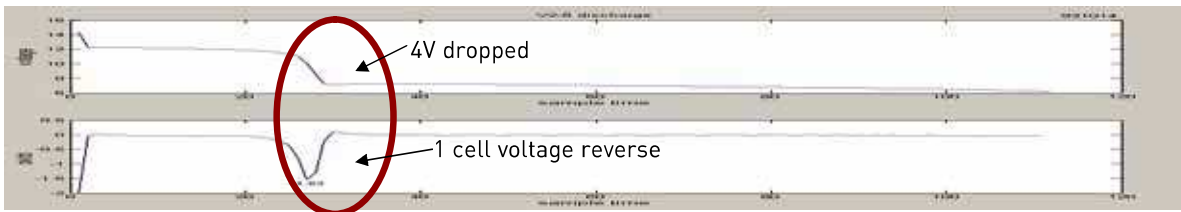
The BMS is able to communicate wirelessly, measure up to 500 nodes per system and record data in external memory cards to enable easy data access and backup security.

The new BMS is able to detect various battery problems to ensure the batteries are in working conditions.

Battery Cell Short or Open



Battery Cell Reversal

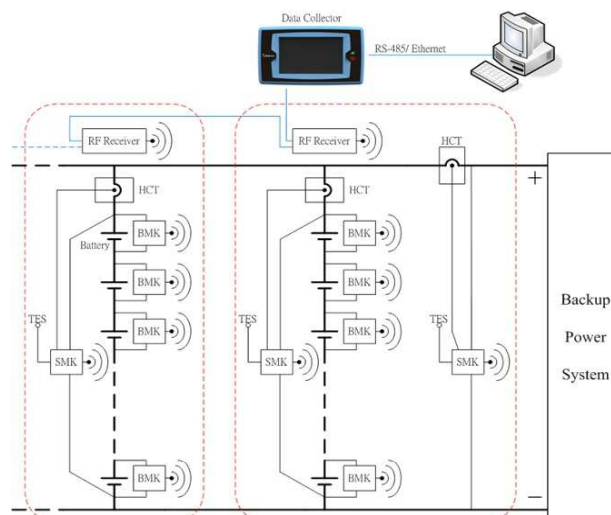


Battery Cell Impedance

- determine impedance value of the internal battery cell

Communication & protocol

- R.F 2.4G for wireless connection
- Wired communication via Ethernet TCP/IP, RS485



The Data collector comes with a large 7" LCD Screen with Graphic Touch function offering access and viewing of various batteries parameters.

Functions of the Data Collector:

Real-time Monitoring Information and Battery Test

- Battery Voltage, Battery Impedance, String Voltage, String Current and Environment Temperature

Charts & Curves

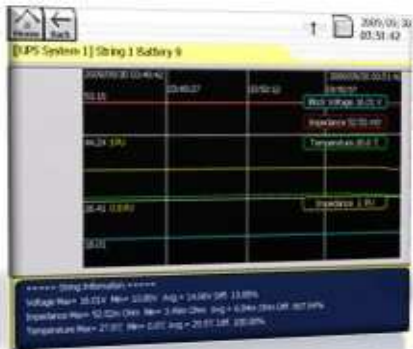
- Curve, Bar graph, Average

Events Log

- Alarms via email & dry contact

Sensor Network Manage

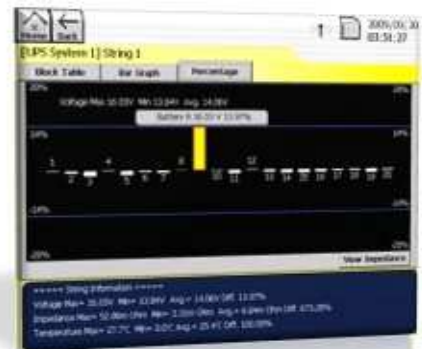
- Battery Configuration settings
- Networks Parameters settings



Real-Time Curve



Bar Graph



Percentage Graph



History Curve

Block Table	Bar Graph	Percentage						
Voltage Max=14.97V Min=13.41V Avg=13.62V DfF= 9.91% Impedance Max= 6.30m Ω Min= 4.19m Ω Avg= 4.70m Ω DfF= 31.90% Temperature Max= 25.6°C Min= 27.4°C Avg= 26.4°C DfF= 3.79%								
NODE 1	NODE 2	NODE 3	NODE 4	NODE 5	NODE 6			
13.91V 28.8°C 4.42 mΩ 1.03PU	14.00V 28.8°C 4.24 mΩ 1.07PU	13.63V 27.4°C 4.20 mΩ 1.03PU	13.50V 28.7°C 4.19 mΩ 0.91PU	13.54V 28.8°C 4.45 mΩ 1.10PU	13.97V 28.8°C 4.71 mΩ 1.04PU			
NODE 7	NODE 8	NODE 9	NODE 10	NODE 11	NODE 12			
13.43V 27.1°C 4.57 mΩ 1.03PU	13.50V 26.2°C 4.53 mΩ 1.05PU	13.93V 26.9°C 5.09 mΩ 1.08PU	13.64V 26.7°C 4.55 mΩ 1.04PU	14.97V 27.2°C 4.55 mΩ 1.00PU	13.64V 26.7°C 4.35 mΩ 1.04PU			
NODE 13	NODE 14	NODE 15	NODE 16	NODE 17	NODE 18			
13.92V 27.0°C 4.61 mΩ 1.04PU	13.52V 26.8°C 4.69 mΩ 1.00PU	14.00V 27.3°C 5.86 mΩ 1.16PU	13.92V 27.2°C 4.50 mΩ 1.07PU	13.46V 26.1°C 4.40 mΩ 0.98PU	14.01V 27.3°C 4.37 mΩ 0.93PU			

Data Readings

ENERBATT 3G

Technical Specification

GENERAL	
Operating Temperature	0°C~40°C
Relative Humidity	≤95% without condensing
Enclosure Dimension (W × H × D) mm	260 × 150 × 57
Supply Voltage	100 ~ 240Vac, 35 ~ 60Vdc
Power Consumption	18 Watts, maximum
Radio Frequency	RF 2.4G for wireless
Available Communication Port	Ethernet TCP/IP, RS 485, Input / Output Dry contact signal
Memory Type/Size	Inter-changeable 16GB SD/MMC flash memory card / Minimum continuous operation for 700 days
Maximum Monitoring Nodes	500 nodes (Individual Battery block/cell + Battery String current/voltage)

BATTERY BLOCK MEASUREMENT			
Block Rated Voltage	2V	6V	12V
Block Voltage Measurement Range	1.5~4V	4.5~8V	9~16V
Resolution	1mV		
Accuracy	±10mV		
Input Impedance	≥1MΩ		
Temperature Measurement Range	0~100°C		

BATTERY STRING VOLTAGE MEASUREMENT	
Maximum Measurement Voltage	750V
Resolution	0.1V
Accuracy	±0.3V
Input Impedance	≥1MΩ
Temperature Measurement Range	0~100°C

BATTERY STRING CURRENT MEASUREMENT	
Maximum Measurement Current	3,000A
Resolution	0.1A
Accuracy	±0.3%