

Battery Monitoring System

General information about ADBC-104M Battery Monitoring System:

- ✓ No worry about your power system
- ✓ For power system, it's very important that battery system run smoothly. Only taking good regular maintenance is not enough to ensure battery system normal. For not critical battery system, typical regular maintenance is enough, but that only indicate the state of battery at a certain time.
- ✓ In the application of critical battery system, any accident must be prevented to happen.
- ✓ That requires battery in good state all time.
- ✓ The only way to ensure battery system in integrated is to install battery monitoring system. Why to choose H3G battery monitoring system?
- ✓ Ensure battery to provide enough energy
- ✓ Early find degradation of batteries
- ✓ Be aware of current state of batteries, especially capability degradation.
- ✓ Avoid change battery blindly, reduce cost
- ✓ Improve safety of operation
- ✓ Anyone can see system from anywhere on the LAN by simply using a standard
- ✓ Web browser, reduce maintenance cost.



Key Features:

- The system is modular and easy to configure for different power system
- On-line measurement of battery impedance, voltage and current
- 24*7 automatic cell voltage test and alarm
- Intelligent data analysis
- Remote monitoring

Key Functions:

- Monitoring Items
- Cell Voltage
- Cell Internal Resistance
- String Voltage
- String Charge & Discharge Current
- String Ambient Temperature

Alarm Items:

- String Charge Voltage High/Low
- Discharge Current High (Optional)
- Charge Current High (Optional)
- String Over-discharge
- Cell Charge Voltage High/Low
- Cell IR Over Limit
- Cell Over Discharge
- Cell Short Circuit
- Cell Open Circuit



Technical specification of the device:

- used for: 2V, 6V or 12V battery, capacity less than 2000AH
- Power Requirements:
 - TA Module: powered from the monitored battery, less than 60mA(2V) or 25mA(12V)
 - TC module: DC8~13V, 2W
- Converter: DC8~13V, 0.3W
- Measurement Range & Accuracy:
 - Cell voltage: 1.5~2.5V, $\pm(0.1\%+1\text{mV})$
 - 9~15V, $\pm(0.1\%+10\text{mV})$
 - Internal resistance: 100~65535 $\mu\Omega$
 - Battery temperature: 5°C~50°C, $\pm 1.5^\circ\text{C}$
 - Ambient temperature: -10°C~+70°C, $\pm 0.5^\circ\text{C}$
 - String current: 0~500A, $\pm 2\%$ (Full scale)
- Communications Interfaces: TA Module: UART port, meet MODBUS protocol
- TC module: UART port, meet MODBUS protocol
- Converter: RS485 or RS232, meet MODBUS protocol, one Converter can
- drives up to 130 modules Environmental Operating
- temperature: -5°C~50°C, 5%~90%RH
- Storage temperature: -10°C~70°C, 5%~90%RH

