GDBT-8612 Battery Cell Conductance Tester

General Information

As a key component of the power system, batteries must be tested and maintained annually, quarterly or even monthly and their test data needs to be analyzed on a regular basis.

Practice has proved that there is no correlation between voltage and capacity, because the voltage only reflects the surface parameters of the battery.

Internationally, tests for conductance or internal resistance have been widely used in the routine maintenance of batteries to replace the previous voltage check method. Because the conductance or internal resistance is a parameter that reflects the internals of the battery, the conductance or internal resistance of the battery has been recognized

as an important parameter for accurately and quickly determining the health of the battery.

The battery conductance or internal resistance tester is a digital storage type multifunctional portable test instrument that quickly and accurately measures the operating state of the battery. Through on-line testing, the meter can display and record multiple battery important parameters such as battery voltage, conductance or internal resistance, and connecting strip resistance, accurately and effectively determine the battery's excellent condition, and can be combined with computer and dedicated battery data analysis software to form intelligent test. The device further tracks the decay trend of the battery and alarms in advance to facilitate engineering and management personnel to handle the discretion.

Main Function

- Quickly measure the voltage, conductance or internal resistance of the battery, connection
- resistance and other parameters.
- Battery conductance or internal resistance, voltage over-limit alarm.
- The instrument adopts anti-AC ripple noise circuit technology to make the instrument test result more accurate and the test result consistency is better.
- The instrument has a fast re-test function, the human error is found during the test, can be re-tested and automatically overwrite the original data
- The instrument presetting more than 200 reference conductance or internal resistance values, which can also be customized.
- Battery parameters are all grouped by number, easy for data management.
- Support powerful computer battery state intelligent analysis software to realize the "medical record" tracking analysis of the battery.
- Automatic test mode is convenient for users to measure; (1) Automatic analysis and judgment of the "degraded" state of the battery; (2) Form a

history record library to describe the battery state curve; (3) Comparative analysis of the same group of batteries; (4) All battery classification management (good difference).

Application

- Daily maintenance and management of the battery
- Detection, acceptance and installation of new batteries
- Provide basis for scrapping batteries
- Battery manufacturer's quality control

Features

- High-precision online testing, automatic range conversion, large-capacity data storage.
- Automatically converts the range in the measurement range of 0.000-19990S.
- Can permanently store 999 sets of battery parameters (up to 999 batteries per group), can permanently store 500 sets of battery pack setting parameters.
- Battery capacity test range: 5AH-6000AH.
- 5-inch color touch LCD screen, English modular operation
- Chart display and column chart analysis function.
- Capacity analysis function, which can analyze the battery for excellent, good and bad.
- Oscilloscope function: it can display the highest and lowest voltage and average voltage of the battery in real time, and can calculate the voltage ripple.

- Through the SD interface, the test data is permanently stored on the PC to realize the "medical record" tracking analysis of the battery.
- Powerful data management functions, so that the instrument can be used separately from the computer.
- Enhanced over-voltage protection function makes the instrument work safer and more reliable.
- Self-recovery over-current protection function makes the instrument more convenient to use.
- Use the latest SOC chip to greatly simplify the circuit and improve the reliability of the instrument.
- Support large-capacity lithium battery and external power supply.
- Low voltage indication ensures the test accuracy.
- Small size and light weight.

Specification

Measurement range	Conductance: 20 ~ 19,990S Internal resistance: 0.000mΩ~ 99.999mΩ Voltage: 0.000V ~ 25V
Min. measurement resolution	Conductance: 1S Internal resistance: 0.001mΩ Voltage: 1mV
Measurement accuracy	Conductance: ±0.5% ±6dgt Internal resistance: ±0.5% ±6dgt Voltage: ±0.2% ±6dgt

Power supply	11.1V, 2400mAh, rechargeable Lithium battery , can work 8 hours continuously
Display	5 inch color LCD touch screen
Dimension	220mm*170mm*52 mm
Weight	1.1kg
Memory	64MB Flash + 4G SD card
Working environment	0℃ ~ 60 ℃
Storage temperature	-20 ℃ ~ 82 ℃