

# DFT-6101 Battery Resistance Tester

## Overview:

Using the most advanced AC discharge test method, it can accurately test the voltage and internal resistance at both ends of the battery, and judge the battery capacity and technical status of the battery. Customers can choose according to their own situation according to the internal resistance test, voltage test, and capacity estimation of batteries used in the communication industry. As the basis for the matching of the internal resistance of the new battery; the internal resistance of the battery is tested before and after discharge to identify the real backward battery; the key operation and the liquid crystal touch are two operating modes; it can test the battery in Strings or single cell.



## Main Apply:

- New battery String acceptance test;
- Internal resistance matching test before the old battery is recombined;
- Daily test: track the change of the battery internal resistance and grasp the deterioration battery at any time;
- Find the internal resistance change value before and after the checkout discharge to determine the backward rd battery.

Address: 502 Zongtai-yongli Bldg. Tongda Road, Xixiang Baoan, Shenzhen 518126, China.

[www.thomsontesting.com](http://www.thomsontesting.com) Tel:+86-755-23356270,+86-136-92177377 Email:[inquiry@thomsontesting.com](mailto:inquiry@thomsontesting.com)

- Resistance Testing for the screw tightening judgment, and prevent the discharge accident caused by the excessive connection resistance in the discharge.

**Design Features:**

- Automatically digital accurate Testing and simple operation.
- handheld design with 0.45Kg,Weight for the whole process automatic Testing.
- To meet various battery internal resistance detection standards by include a complete database of battery internal resistance parameters, which can define the battery standard internal resistance according to different batteries.
- The simple, test method not affects the battery working state and will not cause safety hazards.
- The tester itself can store a large amount of test data, and can be conclusive query and analysis on the tester, and can also export the battery test data to the computer software with a U-disk to generate charts and curves for analysis.
- Test reports can be easily imported into Excel and Word files, and printed into reports in the specified format for easy management and workload reducing
- 4-line multi-purpose test clamp, set test clamp, probe and other functions in one, can adapt to more than 98% of the battery connection installation mode and battery pole form.

**4-line Test Clamp Advantage**

- 4-line test clamp adapted to most test occasions
- 60mm test head with only 3mm thickness at clamp front end is easy to reach directly under the connecting plate into the pole;
- With serrated teeth on the inside of the metal head, It is convenient to dampen the oxide and facilitate direct contact with the pole, thus ensuring the stability and accuracy of the test results.

**4-line Test Probe Advantage**

- Four-point method test, the inner needle is completely insulated from the outer barrel.
- Inner pin of 1.3mm diameter & outer barrel of 3mm diameter is suitable for a variety of connection strip gaps, and fully can be inserted from the pole sheath hole.
- Metal needles and syringes adopt beryllium copper gold plating process, which can adapt to various test frequencies and currents.
- Line length 1.8m, test pen length 0.36m, test the whole set of batteries without mobile devices.
- The test pen adopts the two-stage design of the extended rod, which is convenient to carry and adapt to long-distance testing
- The aviation plug adopts Taiwan PLT company products, adapts to various frequencies and currents, and escorts accurate testing.

**Product Features:**

- **Battery internal resistance** and performance evaluation of Single-cell battery and the String battery.
- **Data management:** open and playback the data records, dump the U-disk, delete and other operations, and format the data records at the same time
- **System management:** including clock settings. Parameter calibration. Language Selection. Test the waveform. Features such as system updates and software version information.
- Instructions for use: to provide users with help information, all problems are summarized as basic knowledge by type. On-site wiring. Instrument operation. Instrument maintenance, etc.

**9. Technical index: :**

Item	parameters
Measuring range	resistance: 0.0mΩ--120mΩ Voltage: 0.000v--20v
Tiebar Measuring range (option)	0.0mΩ —65.0mΩ
Min. Resolution	resistance: 0.001mΩ Voltage: 1mV
Test accuracy	resistance: 1% Voltage: 0.5%
Display 272× 480	4.3" TFT LCD touch screen 272×480
Host Size	186mm×98mm×40mm
Host Weight	0.45KG
Memory capacity	Stores 100,000 battery Test data
Working power supply	4000mAH rechargeable battery as full for 8~ 12 hours
External power supply	AC100~240V/DC5V-1A power adapter/charger
Communication interface	USB interface (pluggable U-disk)

Address: 502 Zongtai-yongli Bldg. Tongda Road, Xixiang Baoan, Shenzhen 518126, China.

[www.thomsontesting.com](http://www.thomsontesting.com) Tel:+86-755-23356270,+86-136-92177377 Email:[inquiry@thomsontesting.com](mailto:inquiry@thomsontesting.com)