

Battery Tester/ACR Meter

Standard Battery Tester TB-3563 Series

Product description:

TB-3563 series is high-precision, wide-range battery resistance tester controlled by a high performance microprocessor. Whether it is lithium batteries that are trending towards large scale, low-resistance or battery packs with growing high-voltage applications in the face of the ever-evolving battery production industry, this instrument can simultaneously check the internal resistance (IR) and battery voltage (OCV) at high speed. This product has high resolution, good stability, short test cycle, exquisite appearance, powerful functions, rich interfaces, and is suitable for product development and automated production lines.



TB-3563 /TB-3563D



**TB-3563-24
(Front panel)**



**TB-3563-24
(Rear panel)**

Features

- Minimum resolution of internal resistance is 0.1 $\mu\Omega$ and the maximum range is 3.1 k Ω .
- Voltage minimum resolution 10 μ V, maximum range 120V (TB-3563D only)
- 0.005% ultra-high voltage accuracy (TB-3563D only)
- The minimum test cycle is only 10ms
- Super strong anti-static shock (TB-3563D only)
- Strong anti-interference ability
- AC four-terminal method, high-precision measurement of low resistance
- Impedance tolerance of the test line is greatly enhanced, the test channels are infinitely expanded.
- Equipped with temperature measurement function (TB-3563D only)
- Rich standard interfaces suitable for automated test equipment
- Simultaneous high-speed check of internal resistance (IR) and battery voltage (OCV)
- Automatic battery test function
- Used for checking the internal resistance and voltage of battery cells, packs and battery modules.

Specifications

| Model | TR-3563 | TR-3563-12 | TR-3563-24 | TR-3563D |
|------------------------|---|--|-------------|-----------|
| Display | 3.5 inch TFT-LCD display | | | |
| Number of channel | 1 channel | 12 channels | 24 channels | 1 channel |
| Measurement parameters | AC resistance, DC voltage | | | |
| Resistance | Accuracy | 0.5% (3m Ω); 0.5% (30m Ω); 0.3% (\geq 300m Ω) | | |
| | Range | 0.0001 m Ω ~ 3.10 00k Ω | | |
| Voltage | Accuracy | 0.01% | | |
| | Range | 0.00001V ~ 60.0000V | | |
| Temperature | Accuracy | 1 $^{\circ}$ C | | |
| | Range | -20 ~ 99.9 $^{\circ}$ C | | |
| Signal Source | Measuring current frequency : 1 kHz \pm 0.2Hz , Open circuit voltage : <25V, Test current : <100mA | | | |
| Range | 3m Ω / 30m Ω / 300m Ω / 3 Ω / 30 Ω / 300 Ω / 3 k Ω ; 7 levels full range automatic or manual test mode | | | |
| Test speed | Ultra fast : 100 times/s, Fast : 50 times/s, Medium : 20 times/s, slow : 3 times/s | | | |
| Calibration method | Short circuit reset within full range | | | |
| Comparator | 4-stage sorting and stage counting | | | |
| Trigger | Internal (INT), Manual (MAN), External (EXT), automatic (AUT) and Bus | | | |
| Interface | RS-232/RS-485, LAN, I/O port | | | |
| Power Input | 100 ~ 256VAC, 50 ~ 60Hz, | | | |
| Power Consumption | 15VA | | | |
| Dimension (LxWxD) | 325mm x 215mm x 96.5mm | | | |
| Weight | 3kg. | | | |

Ordering Informations

- TB-3563** : Single channel, 60Vdc/3.1k Ω Battery Tester
- TB-3563-12** : 12 channels, 60Vdc/3.1k Ω Battery Tester
- TB-3563-24** : 24 channels, 60Vdc/3.1k Ω Battery Tester
- TB-3563D** : Single channel, 120Vdc/3.1k Ω /99.9 $^{\circ}$ C Battery Tester

Standard Accessories :

- User Manual
- Communication cable
- PB36 connector
- Four-terminal Test clip
- Power cable