

# 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 $\Omega$ .
- Voltage minimum resolution 10 $\mu$ 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 $\Omega$ ); 0.5% (30m $\Omega$ ); 0.3% ( $\geq$ 300m $\Omega$ )		
	Range	0.0001 m $\Omega$ ~ 3.10 00k $\Omega$		
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 $\Omega$ / 30m $\Omega$ / 300m $\Omega$ / 3 $\Omega$ / 30 $\Omega$ / 300 $\Omega$ / 3 k $\Omega$ ; 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 $\Omega$  Battery Tester
- TB-3563-12** : 12 channels, 60Vdc/3.1k $\Omega$  Battery Tester
- TB-3563-24** : 24 channels, 60Vdc/3.1k $\Omega$  Battery Tester
- TB-3563D** : Single channel, 120Vdc/3.1k $\Omega$ /99.9 $^{\circ}$ C Battery Tester

### Standard Accessories :

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