

HT3568/A Comprehensive Battery Tester



OVERVIEW

HT3568 series comprehensive battery tester is a high-precision, wide-range, high-performance microprocessor-controlled tester. It adopts the latest battery testing technology and industrial design, elegant appearance, powerful function, fast and stable

The tester has the Mult mode programming test, which can automatically complete the programming test. One station completes multiple stations compared to the previous tester and greatly improve the test efficiency; one tester complete routine tests such as the battery charging and discharging, AC and DC internal resistance testing, overcharging and over discharging.

Rich interfaces configuration and communication protocols meet ATE installation requirements. Passed a variety of harsh EMC electromagnetic interference experiments, the instrument can calmly respond to various industrial field application.

FEATURES

- Using ARM high-speed sampling control, high accuracy, fast response; Accuracy and test range of voltage, current and internal resistance surpass similar products, providing higher standards for product testing
- Integrate all functions of DC power supply, DC electronic load and AC resistance tester
- Large-screen LCD display, Chinese and English switching, rich and clear display content
- It can test the AC internal resistance of the battery as well as the DC internal resistance of the battery to meet the needs of different types of internal resistance testing
- With standard RS232 interface, LAN communication port, standard SCPI communication protocol, meeting the needs of automated testing customers
- The internal resistance range is $30\text{m}\Omega \sim 3\Omega$, the minimum resolution is $1\mu\Omega$, and the maximum display is 31,000 counts; the voltage range is $6\text{V} \sim 30\text{V}$, the minimum resolution is 0.1mV , and the maximum display is 60,000 counts
- Comprehensive test functions: battery activation, voltage internal resistance, charge test, overcharge test, DC internal resistance, discharge test, over discharge test, short circuit test, recovery test, resistance R1/R2, I2 C voltage, I2 C communication

HT3568

Charging voltage 0-20V	Charging current 0-5A	Discharge voltage 0-30V	Discharge current 0-15A
AC internal resistance 0.001m Ω ~3 Ω	Battery voltage 0~30V	Battery capacity 99999mAh	DC internal resistance 0.1 m Ω ~1 Ω

HT3568A

Charging voltage 0-24V	Charging current 0-15A	Discharge voltage 0-30V	Discharge current 0-60A
AC internal resistance 0.001m Ω ~3 Ω	Battery voltage 0~30V	Battery capacity 99999mAh	DC internal resistance 0.1 m Ω ~1 Ω

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APPLICATION

- HT3568 series comprehensive battery tester is used to test various lithium batteries, nickel-metal hydride batteries, nickel-cadmium batteries, button batteries, cylindrical batteries, soft pack batteries
- Comprehensive battery performance test, charge and discharge capacity test, AC and DC internal resistance test, overcharge and over-discharge test, I2C test, etc.



SPECIFICATION

	Model	HT3568	HT3568A
	Display	4.3" large screen LCD display	
	Measurement parameters	It has all the functions of DC power supply, DC load and AC internal resistance tester	
Battery resistance test range	Battery voltage measurement range	0~30V; Minimum resolution 0.1mV	
	AC resistance test range	30 mΩ range: 0.001 mΩ~30.000mΩ; Minimum resolution 0.001 mΩ 300 mΩ range: 0.01 mΩ~300.00mΩ; Minimum resolution 0.01 mΩ 3000 mΩ range: 0.01 mΩ~3000.0mΩ; Minimum resolution 0.1 mΩ	
	Identify resistance measurement range	0.1 kΩ~999.9kΩ Minimum resolution 0.1 kΩ	
	Capacity test range	0~99999mAH Minimum resolution 1mAH	
Test speed	Static test	Test all functions: 1.1~2S	
	Capacity test 1C current charge and discharge	3-4 hours	
Measurement accuracy	Voltage measurement accuracy	±0.05%rdg. ±6dgt	
	Current measurement accuracy	At 0~2.999A accuracy: ±0.3%rdg. ±6dgt, At 3.000~15.000A accuracy: ±0.3%rdg. ±6dgt	
	AC resistance measurement accuracy	±0.3%rdg. ±6dgt	
	Identify resistance measurement accuracy	±0.3%	
	Battery capacity measurement accuracy	±2%	
Internal digital power supply index	Maximum output voltage	20V (±0.3%rdg. ±6dgt)	24V (±0.3%rdg. ±6dgt)
	Maximum output current	5A (±0.3%rdg. ±6dgt)	15A (±0.3%rdg. ±6dgt)
	Ripple voltage	<100mV	<300mV
	Load regulation	<1%	
Internal digital E-load index	Max voltage	30V (±0.05%rdg. ±6dgt)	
	Max current	20V (±0.3%rdg. ±6dgt)	24V (±0.3%rdg. ±6dgt)
	Overcurrent measurement range	5A (±0.3%rdg. ±6dgt)	15A (±0.3%rdg. ±6dgt)
	Max power	<100mV	<300mV
	DC resistance test range	0~1000mΩ (±0.5%rdg. ±6dgt)	
	Interface	RS232 interface, Ethernet interface, external I/O interface	
	Size	331mm*329mm*80mm; weight: 4kg	331mm*329mm*80mm; weight: 5.5kg
	Accessories	HT9340A test clip, HT9702 temperature probe, HT9800 communication cable, DB9 connector, power cord	