

CHT3554A Handheld Battery Tester



OVERVIEW

- **Portable + Super Immunity Test**
Repeated recharging of a secondary battery can lead to battery deterioration and increase its internal resistance. Problems can intensify when there is a short-circuit in the internal cell leading to voltage drop, overheating and complete battery malfunction. Worst of all, these problems can cause life-threatening fires and other accidents.
- Using the large current and anti-interference design, CHT3554A battery tester provides fast, complete and accurate diagnosis in internal resistance and voltage for backup UPS batteries and lead-acid batteries.
- Without stopping the instrument, CHT3554A can carry out online measurement and rapid diagnosis of deterioration of the batteries, much increasing the test efficiency. The built-in automatic data storage function can store up to 2400 sets of data.
- Powered of Lithium battery and dry battery, CHT3554A can still work in the harsh field and air transport limited areas to facilitate the use of dry-cell battery.

SPECIFICATION

Measurement items	ESR, DCV
Basic Accuracy	Resistance: 0.5% Voltage: 0.02%
Measurement range	Resistance: 0~ 3.3Ω Voltage: 0~60V
Signal source	AC 1kHz, Test current: <150mA
Range	Resistance: 3mΩ/30mΩ/300mΩ/3Ω Voltage: 6V/60V
Sampling rate	1 meas/sec (the average number optional)
The minimum resolution	Resistance: 0.1μΩ Voltage: 0.1mV
The maximum reading	Resistance: 33,000 Voltage:60,000
Temperature	Range:-10℃ ~60℃ Accuracy:1℃
Correction	Short-circuit reset for all ranges
Comparator	200 set WARNING/FAIL/PASS sorting
Internal data storage	store up to 2400 test data
Trigger	Internal/auto trigger
Interface	USB, external
Power supply	12V/2200 mAh lithium battery, AA (LR6) Alkaline Batteries x 8
Maximum rated power consumption	2.5VA
Input impedance	32kΩ
Dimensions and weight	208 mm (L) x52mm (W) x120mm (D); Weight: 0.81kg
Accessory	CHT9365/CHT9363-A/CHT9363-B/CHT9367/CHT9366/CHT8301(100mΩ)

FEATURES

- Super strong anti-interference ability, suitable for battery online diagnosis
- A variety of PASS/WARNIN/FAIL combinations to judge the deterioration
- High resolution and high precision test for resistance and voltage
- Automatic storage, support up to 2400 sets data saving and exporting
- Powered by lithium battery, with ultra-long standby time, maximum continuous operating time is over 8 hours.
- 4-terminal measurement

V Range	V-Resolution
0-60V	0.1mV
Power Terms	Display
8hours	4.3Inch LCD
Ω Range	Ω Resolution
0-3.0Ω	0.1μΩ
Temperature	Int-Memory
-10℃ -60℃	2400

APPLICATION

- Used in UPS battery system for deterioration judgment and maintenance
- Online detection for car batteries
- Inspection for power batteries of electric bicycle and forklift
- Fit for inspection for low-ohm battery modules
- The power battery testing of electric bicycle and forklift



SPECIFICATION

The following data was obtained under the following conditions: Temperature condition: 23 °C ± 5 °C / Zero-adjustment: Zeroed before measurement / Warm-up time: > 15 minutes

CHT3554A CHT3554				
Model	Resistance range	Voltage range	Resistance Max reading	Voltage Max reading
CHT3554A	0.1 μΩ-3Ω	0.001mV-60V	30000	60000
CHT3554	1μΩ-3Ω	0.01mV-60V	3000	6000

CHT3554A resistance measurement							
Range	3mΩ	30mΩ	300mΩ	3Ω	30Ω	300Ω	3kΩ
Maximum display	30,000						
Resolution	0.1μΩ	1μΩ	10μΩ	0.1mΩ	1mΩ	100mΩ	0.1mΩ
Measurement Current	150 mA	150 mA	15 mA	1.5 mA	100μA	10μA	10μA
Measurement current frequency	1kHz 0.2Hz						
Accuracy	0.5% 10 readings		0.5% 5 readings				
Temperature coefficient	(0.05% 1 reading)/ °C (0.05% 0.5 reading)/ °C						
Port voltage	25V						

CHT3554A voltage measurement	
Range	6V 60V
Maximum display	600,000
Resolution	100μV 1mV
Measurement Current	0.5% 4 readings
Temperature coefficient	(0.002% 0.5 reading)/ °C

CHT3554A temperature measurement	
Range	-10~60 °C
Resolution	0.1 °C
Accuracy	1 °C

ACCESSORIES



Standard software

The standard software of CHT3554A supports remote control, excel data export, data storage and printing functions.

