

# HP3554 Series Handheld Battery Tester



## OVERVIEW



The HP3554 battery tester is designed for large current and strong anti-interference to provide fast, complete and accurate diagnosis in internal resistance and voltage for backup UPS batteries and lead-acid batteries. Without stopping the instrument, HP3554 can carry out online measurement and rapid diagnosis of deterioration of the batteries, greatly increasing the test efficiency. The built-in automatic data storage function can store up to 2400 sets of data.

HP3554A/B/D Handheld Internal Resistance Battery Tester is the company's key high-speed tester for accurate battery internal resistance and voltage test in the battery industry.

As a handheld tester, the 3 models are lighter and smaller than benchtop instruments, but their accuracy and speed is comparable to the benchtop tester since they use the same circuit design of the classic HP3563.

Powered of lithium battery and dry battery, HP3554 can still work in the harsh field and air transport limited areas to facilitate the use of dry-cell battery.

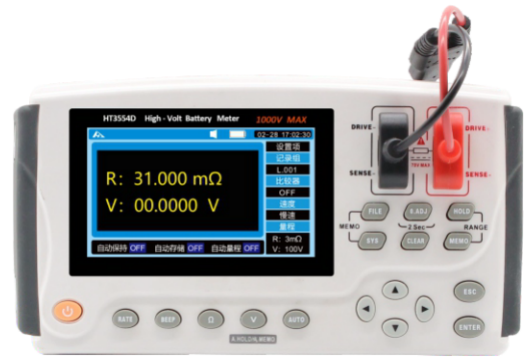


## SPECIFICATION

Model	HP3554	HP3554A	HP3554B	HP3554D
Display	4.3inch VFD display	4.3inch TFT-LCD display		
Measurement items	ESR, DCV			
Resistance	Basic accuracy	±1%	±0.5%	
	Range	0.001mΩ ~ 3.100Ω	0.0001mΩ ~ 30.000Ω	
Voltage	Basic accuracy	±0.05%	±0.02%	
	Range	0.0001V~60.000V	0.00001V~100.000V	0.00001V~300.000V
Signal source	AC 1kHz, Test current: <150mA	AC 1kHz; open circuit voltage: <5V; Test current: <150mA		
Range	3mΩ/30mΩ/300mΩ/3Ω; 4 ranges in all	3mΩ/30mΩ/300mΩ/3Ω/30Ω; Auto and manual test mode in 5-level range		
Sampling rate	1 meas/sec (the average number optional)	20 meas/sec, 3 meas/sec		
Temperature	Range:-10°C ~60°C Accuracy:±1°C	Range:-10°C ~60°C Accuracy:±1°C		
Correction	Short-circuit reset for all ranges			
Comparator	200 set WARNING/FAIL/PASS sorting	200 set storage data		
Internal data storage	Store up to 2400 set test data	Store up to 2400 set test data(upgradable to 4800 set)		
Trigger	Internal/auto trigger			
Interface	USB, EXPORT(port execute the hold function)			
Power supply	12V/1700mAh lithium battery, AA (LR6) Alkaline Batteries x 8			
Maximum rated power	4VA			
Dimensions	208 mm (L) x120mm (W) x 52.5mm (D),without sleeve, weight:0.81kg			
Accessory	HT9363B test clip,HT9371 zero-adjustment board,HT9348 temperature sensor,USB mini cable,charger,0370 belt			

# HP3554 Series

HP3554/HP3554A/HP3554B/HP3554D



## FEATURES

### HP3554

- **Special for online measurement for UPS batteries**
- High stability, high resolution design, the highest voltage resolution 0.1mV, and internal resistance resolution 0.001mΩ
- Excellent anti-interference performance. When the instrument receives back EMF shock, it will automatically cut off the test loop.
- HP3544 Use the latest anti-jamming technology to effectively suppress 1/f noise

### HP3554A/B/D

- HP3554A/B/D is a precision tester for ordinary batteries.
- Handheld design, lighter and smaller, but their accuracy and speed comparable to the benchtop tester.
- Ultra-wide test range, voltage test range up to 1000V (HP3554D only)
- Test speed faster than HP3554
- It has a minimum resolution of 0.0001mΩ, maximum voltage and auto trigger voltage of 1000V and fastest test speed is 100mS.

## APPLICATION

1. Inspection of high-voltage battery pack and battery module
2. High-speed mass production inspection of various batteries
3. For large, medium and small (low impedance) component inspection and high volume production inspection
4. Special fuel cell stack inspection
5. Research and development measurement for batteries
6. Simultaneously check internal resistance (**IR**) and battery voltage (**OCV**) at high speed

## SPECIFICATION SELECTION TABLE

Model	Resistance accuracy	Resistance range	Voltage accuracy	Voltage range	Performance characteristics
HP3554	±1%	0.001mΩ ~ 3.100Ω	±0.05%	100μV ~ 60V	Special for online measurement for UPS batteries
HP3554A	±0.5%	0.0001mΩ ~ 30.000Ω	±0.02%	10μV~100V	Handheld design, lighter and smaller, but their accuracy and speed comparable to the benchtop tester
HP3554B				10μV~300V	
HP3554D				10μV~1000V	