Handheld Battery Tester multicomp

RoHS Compliant



The MP700499 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, MP700499 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.



MP700500, MP700501 and MP700500 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 Powered of lithium battery and dry battery, This can still work in the harsh field and air transport limited areas to facilitate the use of dry-cell battery.

Features

MP700499

- · 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.
- · Use the latest anti-jamming technology to effectively suppress 1/f noise

MP700500, MP700501 and MP700500

- · These 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 MP700502 only)
- Test speed faster
- It has a minimum resolution of 0.0001mΩ, maximum voltage and auto trigger voltage of 1000V and fastest test speed is 100mS.

Application

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

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Specification Selection Table

Model	Resistance accuracy	Resistance range	Voltage accuracy	Voltage range	Performance characteristics	
MP700499	±1%	$0.001m\Omega$ to 3.1Ω	±0.05%	100µV to 60V	Special for online measurement for UPS batteries	
MP700500				10µV to 100V	Handheld design, lighter and smaller,	
MP700501	±0.5%	$0.0001m\Omega$ to 30Ω	±0.02%	10µV to 300V	but their accuracy and speed	
MP700502				10µV to 1000V	comparable to the benchtop tester	

Specification

Model		MP700499	MP700500	MP700501	MP700502		
Display		4.3inch VFD display	4.3inch TFT-LCD display				
Measurement items		ESR, DCV					
Resistance	Basic accuracy	±1%	±0.5%				
	Range	0.001mΩ ~ 3.1Ω	0.0001mΩ to 30Ω				
Voltage	Basic accuracy	±0.05%	±0.02%				
	Range	0.0001V to 60.000V	0.00001V to 100V	0.00001V to 300V	0.00001V to 1000V		
Signal source		AC 1kHz, Test current: <150mA	AC 1kHz; open circuit voltage: <5V; Test current: <150mA				
Range		$3m\Omega/30m\Omega/300m\Omega/3\Omega;$ 4 ranges in all	$3m\Omega/30m\Omega/300m\Omega/3\Omega/30\Omega$; 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 to 60°C Accuracy: ±1°C	Range:-10°C to 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					
In	terface	USB, EXPORT(port execute the hold function)					
Power supply		12V/1700mAh lithium battery, AA (LR6) Alkaline Batteries x 8					
Maximur	n rated power	4VA					
Dim	nensions	208 mm (L) × 120mm (W) × 52.5mm (D),without sleeve, weight:0.81kg					
Ac	cessory	Test Clip, Zero-adjustment board, Temperature sensor, USB mini Cable, Charger and Belt					

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Part Number Table

Description	Part Number
Handheld Battery Tester, 0.1mV to 60V, 4.3" VFD Display	MP700499
Handheld Battery Tester, 0.01mV to 100V, 4.3" TFT-LCD Display	MP700500
Handheld Battery Tester, 0.01mV to 300V, 4.3" TFT-LCD Display	MP700501
Handheld Battery Tester, 0.01mV to 1000V, 4.3" TFT-LCD Display	MP700502

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