

RJ4560 Battery impedance tester



Product Description

The RJ4560 battery impedance tester is designed for battery quality management. It uses the four-terminal test method to accurately measure AC impedance ($0.1\mu\Omega$ resolution) and DC voltage ($\pm 0.0035\%$ accuracy), synchronously supports temperature monitoring, covers 0.1Hz-1050Hz broadband analysis, and has built-in comparator function for fast conformity determination. It is suitable for lithium battery, energy storage system and other scenarios, taking into account the requirements of laboratory-level accuracy and efficient detection of production line.

Key Features

- Ultra-wide test frequency, 0.1Hz~1050Hz;
- Use low frequency internal resistance test below 1Hz, without charging and discharging lithium battery, you can test the accurate impedance;
- Ultra-high voltage test accuracy, up to 0.0035% basic accuracy;
- Strong anti-interference ability, can achieve stable measurement;
- Simultaneous measurement of impedance and voltage;
- Temperature measurement can be achieved;

National Service hotline: 4008-515-616

No.38 Longfei Road, Chengyang District, Qingdao

Official website: www.ruijie-ate.com

Specification

Features		Technical indicators		
Maximum input voltage		5V		
Measuring items		Impedance, impedance Angle, resistance, reactance, voltage, temperature		
The resistance Resistance to measuring quantity	Measuring parameters	R, X, Z, θ		
	Range	3 m Ω	10 m Ω	100 m Ω
	Maximum display value	3.6 m Ω	12 m Ω	120 m Ω
	Resolution	0.0001 m Ω	0.0001 m Ω	0.001 m Ω
	Test current	1.75A rms	500mA rms	50mA rms
	Measuring frequency	0.1 Hz~1050 Hz		
	Basic accuracy	$\pm 0.8\%$ rdg.		
Voltage measurement	Measuring Range	5.00000 V		
	Measuring range	-5.10000V~5.10000V		
	Resolution	0.00001V		
	Basic accuracy	V: $\pm 0.0035\%$ rdg. ± 5 dgt.		
	Temperature coefficient	$\pm 0.001\%$ rdg. ± 2 dgt./ $^{\circ}\text{C}$ (applicable at $0^{\circ}\text{C}\sim 20^{\circ}\text{C}$, $26^{\circ}\text{C}\sim 40^{\circ}\text{C}$)		
	Sampling time	Fast 0.1s Medium 0.4s Slow 1.0s		
Environment of use		Storage temperature and humidity range $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$, 20%RH ~ 75%RH (no condensation) Temperature and humidity range $0^{\circ}\text{C}\sim 40^{\circ}\text{C}$, 20%RH ~ 75%RH (no condensation) Accuracy guaranteed Temperature and humidity range $20^{\circ}\text{C}\sim 26^{\circ}\text{C}$, 20%RH ~ 75%RH (no condensation)		
Work and energy		Comparator, delayed sampling, average function, contact detection, etc		
Connectors		RS232, PLC		
Net weight		3.25 kg		
Exterior dimensions		325mm x 88mm x 296.5mm (W x H x D) without foot, foot height 15mm		
Power supply		AC100V~240V, 50/60Hz		
Attachment		1 manual, 1 power cord (1.5 m), 1 communication cable (1.5 m), 1 test cable (test clip) (1.5 m), 1 GPIB connector head, 1 cleaning board		

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