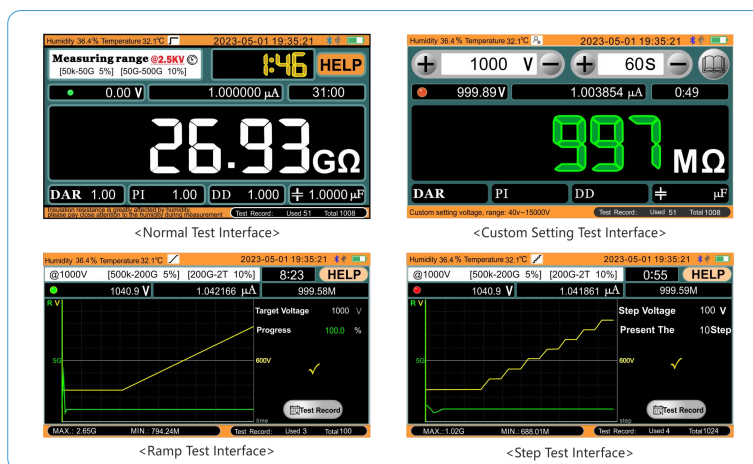


- ◆ Output Voltage 50V~15kV
- ◆ Test Resistance 0.005MΩ~30TΩ
- ◆ Max Short Circuit Current 7mA
- ◆ Polarization Index Test (PI)
- ◆ Dielectric Absorption Ratio Test (DAR)
- ◆ Step Test Mode(STEP)
- ◆ Ramp Test Mode (RAMP)
- ◆ Dielectric discharge index(DD)
- ◆ Capacitance Test (CAP)
- ◆ Custom Setting Output Voltage
- ◆ Custom Setting Test Time 10s~60min
- ◆ Large Capacity Rechargeable Lithium Battery
- ◆ USB Communication
- ◆ Bluetooth Communication



## Product Function

Suitable for insulation resistance testing of the large-scale electrical equipment and transmission network cable which in large-capacity, high-voltage, and strong-inductive electrical site.

Insulation resistance test (IR); polarization index test (PI); Dielectric absorption ratio test (DAR); Step test(STEP); Ramp test (RAMP); Dielectric discharge index test(DD). AC/DC Voltage test(V); Distributed capacitance test(CAP).

## Product Features

1. Touch colorful screen, can display the test data on the same screen. It is very convenient to test operation and view history record.
2. With the unique strong anti-interference technology and stable testing capabilities in large distributed capacitance site (such as long cables) and strong electromagnetic interference environments (such as substations).
3. Perfect measurement index: insulation resistance (IR), polarization index (PI), dielectric absorption ratio (DAR), step (STEP), ramp (RAMP), dielectric discharge index (DD), distributed capacitance (CAP), AC/DC voltage (V).
4. Custom setting measurement mode, optional PI and DAR calculation formulas, custom setting test voltage and custom setting test duration, which can provide variety of options to user and convenient the special site request.
5. Voltage monitor: Automatically monitoring the live voltage of the measured object. when the voltage exceed 36V and will automatically prohibit to test to effectively protect the instrument and the operator.
6. Current monitor: Automatic display the current of test circuit
7. Temperature monitor: Automatic display the temperature and humidity of tester inside.
8. Automatic discharge function, automatically and quickly release the electric charge of the measured object after the test, no need the external discharge circuit.
9. Large-capacity test record memory, test records can be directly browsed and analyzed in the tester. the tester can automatically store 1000 sets of real-time test data with test date and test time.
10. USB communication and upload function, the recorded data can be uploaded to the computer for stored statistical analysis.
11. Bluetooth communication function, can upload the test results to the mobile phone.

## Insulation Resistance Test Accuracy

Rate Voltage	50V	250V	500V	1000V	2500V	5000V	10kV	15kV
Range & Accuracy	±5%	10.0GΩ	50.0GΩ	100GΩ	200GΩ	1.00TΩ	2.00TΩ	4.00TΩ
	±20%	100GΩ	500GΩ	1.00TΩ	2.00TΩ	5.00TΩ	10.0TΩ	30.0TΩ

## Technical Specifications

Model	EM3520	EM3520B	EM3520C
Rated Voltage	50V, 250V, 500V, 1000V, 2500V, 5000V	50V, 250V, 500V, 1000V, 2500V, 5000V, 10kV	50V, 250V, 500V, 1000V, 2500V, 5000V, 10kV, 15kV

<b>Output Voltage Accuracy</b>	+4%±10V (when 50V: +4%±2V)	+4%±10V (when 50V: +4%±2V)	+4%±10V (when 50V: +4%±2V)
<b>Insulation Resistance Range</b>	0.005MΩ~10.0TΩ	0.005MΩ~20.0TΩ	0.005MΩ~30.0TΩ
<b>Short Circuit Current</b>	7mA MAX	7mA MAX	7mA MAX
<b>Power Supply</b>	Rechargeable lithium battery pack 6400mAh 14.8V		
<b>Capacitance Measurement</b>	Range: 10nF~200uF; Accuracy: ±10%rdg ± 10nF		
<b>Voltage Measurement</b>	Range: 0V~1000V; Accuracy: ± 5%rdg ±3V		
<b>Customs Setting Output Voltage</b>	ETCR3520: 40V~5kV ETCR3520B: 40V~10kV ETCR3520C: 40V~15kV		
<b>Customs Setting Test Time</b>	10s~3600s		
<b>Polarization Index (PI)</b>	Yes		
<b>Dielectric Absorption Ratio (DAR)</b>	Yes		
<b>Step Voltage(STEP)</b>	Yes		
<b>Ramp( RAMP)</b>	Yes		
<b>Dielectric discharge index (DD)</b>	Yes		
<b>Real Time Current Value</b>	Display test current value, current display range: 0.001nA~7.5mA		
<b>Real Time Voltage Value</b>	Automatically monitoring the voltage of the measured object. In not-testing state,the voltage over 36V will automatically prohibit to test to protect the instrument and the operator		
<b>Test Timer</b>	Automatically record test duration, timing range: 0s~9999s		
<b>Store Function</b>	Automatically store the test date, time , total of 1000 groups, which can view and replay the stored test record		
<b>USB Communication</b>	Yes, upload the test record to PC through the USB cable		
<b>Bluetooth Communication</b>	Yes, can connect to the Android mobile or others with the Bluetooth communication function device		
<b>Battery Power Indication</b>	With the battery power indication, when battery voltage low will remind to charge in time		
<b>Automatic Shutdown</b>	15 minutes without any operation after starting up will automatic shutdown		
<b>Tester Dimension</b>	280mmX260mmX160mm		
<b>Instrument Weight</b>	Total weight: 5.72kg (include accessories)		
<b>Protection Level</b>	Close the case IP65; Open the case IP40		
<b>Maximum immunity to noise/interference</b>	8mA		
<b>Working Environment</b>	-20°C~50°C; 80%RH		
<b>Withstand Voltage</b>	AC 3Kv 50Hz 1min(between the test circuit and shell)		
<b>Suitable Safety Standard</b>	IEC61010-1, IEC61326-1		
<b>Accessories</b>	Host tester: 1PCS; High voltage test line(red): 1PCS; Test line (green): 1PCS; Test line (black): 1PCS; Alligator clip: 1PCS; Hook: 1PCS; Power adaptor: 1PCS; USB communication cable 1PCS; Tool bag: 1PCS		

