



# EK-C352/C352B/C352C High Voltage Insulation Resistance Tester

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



## Product Function

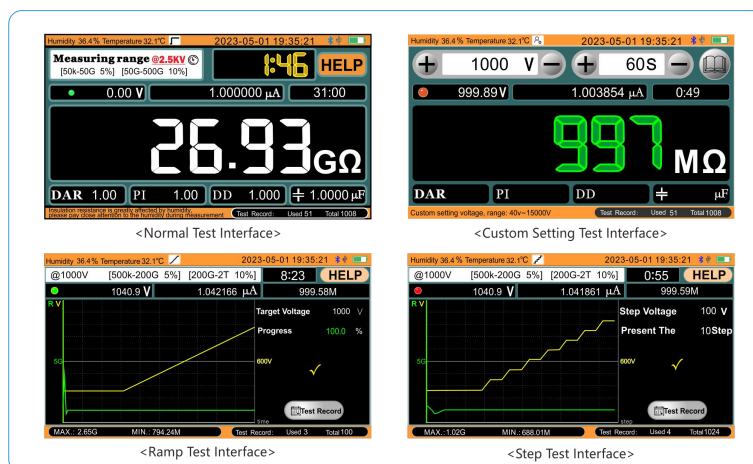
Suitable for insulation resistance testing of large-scale electrical equipment and transmission lines in large-capacity, high-voltage, and strong-inductive environments. The tester provides comprehensive measurement functions including insulation resistance test (IR), polarization index test (PI), dielectric absorption ratio test (DAR), step test (STEP), ramp test (RAMP), dielectric discharge index test (DD), AC/DC voltage test (V), and distributed capacitance test (CAP).

## Product Features

1. Touch color screen: all test data displayed on the same screen. Test operation and historical record viewing are very convenient.
2. Unique strong anti-interference technology ensures stable testing capability in large distributed capacitance sites (e.g., long cables) and strong electromagnetic interference environments (e.g., substations).
3. Comprehensive measurement functions: 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. Customizable measurement mode: selectable PI and DAR calculation formulas, adjustable test voltage and test duration, providing multiple options for special site requirements.
5. Voltage monitor: automatically monitors the live voltage of the tested object. If the voltage exceeds 36V, the test is automatically prohibited to protect the instrument and the operator.
6. Current monitor: automatically displays the test circuit current.
7. Temperature monitor: automatically displays the temperature and humidity inside the tester.
8. Automatic discharge function: automatically and quickly releases the charge of the tested object after the test, no external discharge circuit required.
9. Large capacity test record memory: automatically stores up to 1000 sets of real-time test data with test date and time.
10. USB communication: uploads recorded data to a computer for storage and statistical analysis.
11. Bluetooth communication: uploads test results to a mobile phone.

## Insulation Resistance Measurement Accuracy

| Rated Voltage    | 50V  | 250V   | 500V   | 1000V  | 2500V  | 5000V  | 10kV   | 15kV   |
|------------------|------|--------|--------|--------|--------|--------|--------|--------|
| Range & Accuracy | ±5%  | 10.0GΩ | 50.0GΩ | 100GΩ  | 200GΩ  | 1.00TΩ | 4.00TΩ | 6.00TΩ |
|                  | ±10% | 100GΩ  | 500GΩ  | 1.00TΩ | 2.00TΩ | 5.00TΩ | 20.0TΩ | 30.0TΩ |





# EK-C352/C352B/C352C High Voltage Insulation Resistance Tester

## Technical Specification

| Model                                  | EK-C352                                                                                                                                                                                                     | EK-C352B                                   | EK-C352C                                         |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------|
| Rated Voltage                          | 50V, 250V, 500V, 1000V, 2500V, 5000V                                                                                                                                                                        | 50V, 250V, 500V, 1000V, 2500V, 5000V, 10kV | 50V, 250V, 500V, 1000V, 2500V, 5000V, 10kV, 15kV |
| Output Voltage Accuracy                | +4%±10V (for 50V: +4%±2V)                                                                                                                                                                                   | +4%±10V (for 50V: +4%±2V)                  | +4%±10V (for 50V: +4%±2V)                        |
| Insulation Resistance Range            | 0.005MΩ~10.0TΩ                                                                                                                                                                                              | 0.005MΩ~20.0TΩ                             | 0.005MΩ~30.0TΩ                                   |
| Short Circuit Current                  | ≥7mA                                                                                                                                                                                                        | ≥7mA                                       | ≥7mA                                             |
| Power Supply                           | DC14.8V, 6400mAh rechargeable lithium battery                                                                                                                                                               |                                            |                                                  |
| Display Screen                         | 5-inch color touch screen; display area: 107mm × 58mm                                                                                                                                                       |                                            |                                                  |
| Custom Setting Voltage                 | EK-C352: 40V~5kV; EK-C352B: 40V~10kV; EK-C352C: 40V~15kV                                                                                                                                                    |                                            |                                                  |
| Custom Setting Test Time               | 10s~3600s                                                                                                                                                                                                   |                                            |                                                  |
| Polarization Index Test                | Yes                                                                                                                                                                                                         |                                            |                                                  |
| Dielectric Absorption Ratio Test       | Yes                                                                                                                                                                                                         |                                            |                                                  |
| Step Mode (STEP)                       | Yes                                                                                                                                                                                                         |                                            |                                                  |
| Ramp Mode (RAMP)                       | Yes                                                                                                                                                                                                         |                                            |                                                  |
| Dielectric Discharge Index (DD)        | Yes                                                                                                                                                                                                         |                                            |                                                  |
| Voltage Test                           | Range: DC 0V~1000V; Accuracy: ±5%rdg±3V; Range: AC 0V~750V; Accuracy: ±5%rdg±3V                                                                                                                             |                                            |                                                  |
| Capacitance Test                       | Range: 10nF~200μF; Accuracy: ±10%rdg±10nF                                                                                                                                                                   |                                            |                                                  |
| Real Time Current Display              | Displays test current, range: 0.001nA~7.5mA                                                                                                                                                                 |                                            |                                                  |
| Real Time Voltage Display              | Monitors test terminal voltage; test prohibited if >36V in non-test state                                                                                                                                   |                                            |                                                  |
| Test Timer                             | Automatically records test duration, range: 0s~9999s                                                                                                                                                        |                                            |                                                  |
| Store Function                         | Automatically stores 1000 test records; can view and replay on tester                                                                                                                                       |                                            |                                                  |
| Battery Power Indication               | Yes, with low voltage reminder                                                                                                                                                                              |                                            |                                                  |
| Automatic Shutdown                     | Automatically shuts down after 15 minutes of inactivity                                                                                                                                                     |                                            |                                                  |
| Maximum Immunity to Noise/Interference | 8mA                                                                                                                                                                                                         |                                            |                                                  |
| Withstand Voltage                      | AC 3kV 50Hz 1min (between test circuit and case)                                                                                                                                                            |                                            |                                                  |
| Analog Pointer Display                 | Optional                                                                                                                                                                                                    |                                            |                                                  |
| Bluetooth Printer                      | Optional (can be connected in setting interface)                                                                                                                                                            |                                            |                                                  |
| USB Communication                      | Yes, upload test records to PC via USB cable                                                                                                                                                                |                                            |                                                  |
| Bluetooth Communication                | Yes, connect to Android phones or other Bluetooth devices                                                                                                                                                   |                                            |                                                  |
| Meter Dimensions                       | 280mm × 260mm × 160mm                                                                                                                                                                                       |                                            |                                                  |
| Meter Weight                           | Approx. 6.25kg (including accessories)                                                                                                                                                                      |                                            |                                                  |
| Operating Temperature & Humidity       | -20℃ ~ 50℃; below 80%RH                                                                                                                                                                                     |                                            |                                                  |
| Protection Level                       | IP65 (case closed), IP40 (case open)                                                                                                                                                                        |                                            |                                                  |
| Suitable Safety Standard               | IEC61010-1, IEC61326-1                                                                                                                                                                                      |                                            |                                                  |
| Accessories                            | Tester: 1 pc; High voltage test rod (red): 1 pc; Test lead (green): 1 pc; Test lead (black): 1 pc; Alligator clip: 1 pc; Hook: 1 pc; Power adapter: 1 pc; USB communication cable: 1 pc; Carrying bag: 1 pc |                                            |                                                  |

