

## S420 5 kV Insulation Test Set



- Output voltage level: 5 000V, 2500V, 1000V, 500V, 250V
- Resistance measurement range: 0.01MΩ~5TΩ
- Voltage measurement range: AC 0.01V~750V, DC 0.01V~1000V
- Large LCD with backlight display
- Strong Anti-interference
- 3 terminal test
- Accurate results

### DESCRIPTION

S420 5 kV Insulation Test Set is a fully automatic 5kV insulation test set designed to provide a comprehensive assessment of the conditions of electrical insulations of high voltage apparatus such as the insulation resistance of transformers, bushing, circuit breakers, and other machinery. S420 makes measurement by using the ohm's law with the 3 terminal method, which is much more accurate than the 2 terminal method. An additional Guard Terminal provides a return circuit that bypasses the meter, providing users a more precise result. The instrument is also able to automatically calculate the absorption ratio (DAR) and polarization index (PI), giving users a comprehensive diagnostic of the insulation result.

### APPLICATION

S420 provides a quick and easy way to determine the condition of the insulation on the wire, generators, transformers, etc. It is widely used in transport, power utility, factories, and general industries.

### SPECIFICATIONS

<b>Functions</b>	Insulation resistance, polarization index, absorption ratio, AC/DC voltage test; Automatic discharge function; Ambient temperature test
<b>Power</b>	DC 14.8V 2600mAh rechargeable Li-battery , full battery voltage 16.8V
<b>Output Voltage</b>	Setting range: 250V、500V、1000V、2500V、5000V
<b>Short Circuit Current</b>	≥5mA
<b>Wire Connection Method</b>	<p>L port: High Voltage Terminal. The other end of the lead cable connected from the L port should be connected to the insulator that needs to be measured</p> <p>G port: Guard Terminal. Provides a return circuit that bypasses the meter. For example, if you are measuring a circuit having a current that you do not want to include, you connect that part of the circuit to the "GUARD" terminal</p> <p>E port: "E" Ground Terminal. Connect to the ground or neutral to the measured object. For example, the housing, transformer grounding, or cable shield</p> <p>V port: AC / DC voltage measuring terminal (AC / DC automatic identification)</p>
<b>Resolution</b>	<p>Insulation resistance: 0.01MΩ</p> <p>AC voltage: 0.01V</p> <p>DC voltage: 0.01V</p>
<b>Test Duration</b>	1~30 mins (depends on measuring method, can be set)
<b>Backlight Brightness</b>	Adjustable backlight, suitable for dark environments
<b>Measurement Range</b>	The measurement range will be automatically adjusted based on the voltage of the conductor
<b>LCD</b>	4 bite LCD , white screen with backlight
<b>LCD Size</b>	138mm×85mm
<b>LCD Display Area</b>	122mm×66mm
<b>Test Indication</b>	During testing, a LED light will flash and there will be a bar that indicates the progress
<b>Charging Indication</b>	A red light indicates it is charging; a green light indicates it is fully charged

<b>Dimensions</b>	Instrument size : LWH 270mm×220mm×85mm
<b>Standard Test Wire</b>	1 red lead, 1 green lead, 1 black lead
<b>Battery Voltage</b>	The instrument will display battery level. Please charge when necessary
<b>Communication Port</b>	Stored data can be uploaded to PC through a USB cable
<b>Communication Line</b>	1 USB cable. length 1.5m
<b>Working Current</b>	Stand by: 25mA Max (backlight off); Backlight: 25mA Max (only backlight on); Measuring: 450mA Max (backlight off)
<b>Weight</b>	Instrument: approx. 2.2kg (including battery) Total: approx. 4.11 kg (including package)
<b>Tool Bag</b>	Standard yellow-black tool bag
<b>Ideal Working Conditions</b>	-10 C ~ 40 C ; below 80%RH
<b>Ideal Storage Conditions</b>	-20 C ~ 60 C ; below 70%RH
<b>Withstand Voltage</b>	Between the wire and the housing AC 10.0kV 50Hz withstand for 1min
<b>Insulation Resistance of Housing</b>	Between the wire and the housing >500 MΩ
<b>Electromagnetic Properties</b>	IEC61326 (EMC)

### ACCESSORIES & ORDER DATA

Description	Order Code	Description	Order Code
S420 5 kV Insulation Test Set, 1 pc	S420	<b>Included accessories for S420</b>	
		Tool bag, 1 pc	
		Hi-Volt test rod (3m), 1 pc	
		Hi-Volt alligator clip, 1 pc	
		Hi-Volt test hook, 1 pc	
		Test leads with clip(3m), 3 pcs (black, green, red each 1)	
		18650 battery, 4 pcs	
		16.8V charger, 1 pc	
		Data software (e-copy), 1 pc	
		USB cable, 1 pc	
		User's manual, Warranty card, Certificate of Conformity, 1 copy of each	

### SALES OFFICE

Email: [sales@eaglotest.com](mailto:sales@eaglotest.com)  
 Tel: (852) 2947 1888  
 Add: 11F/, Long To Building, 654-656 Castle Peak Road,  
 Lai Chi Kok, Kowloon, Hong Kong.

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