

S420 5 kV Insulation Test Set



- Output voltage level: 5000V, 2500V, 1000V, 500V, 250V
- Short circuit current output: 10mA, 5mA, 3.5mA, 1.5mA
- Resistance measurement range: 0.01MΩ~5TΩ
- Voltage measurement range: AC 0.01V~750V, DC 0.01V~1000V
- Large LCD with backlight display
- 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

Functions	Insulation resistance, polarization index, absorption ratio, AC/DC voltage test; Automatic discharge function; Ambient temperature test
Power	DC 14.8V 2600mAh rechargeable Li-battery , full battery voltage 16.8V
Output Voltage	Setting range: 250V、500V、1000V、2500V、5000V
Short Circuit Current	≥5mA (optional: ≥10mA、≥3.5mA、≥1.5mA)
Wire Connection Method	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 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 E port: "E" Ground Terminal. Connect to the ground or neutral to the measured object. For example, the housing, transformer grounding, or cable shield V port: AC / DC voltage measuring terminal (AC / DC automatic identification)
Resolution	Insulation resistance: 0.01MΩ AC voltage: 0.01V DC voltage: 0.01V
Test Duration	1~30 mins (depends on measuring method, can be set)
Backlight Brightness	Adjustable backlight, suitable for dark environments
Measurement Range	The measurement range will be automatically adjusted based on the voltage of the conductor
LCD	4 bite LCD , white screen with backlight
LCD Size	138mm×85mm
LCD Display Area	122mm×66mm
Test Indication	During testing, a LED light will flash and there will be a bar that indicates the progress
Charging Indication	A red light indicates it is charging; a green light indicates it is fully charged

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

ACCESSORIES & ORDER DATA

Description	Order Code	Description	Order Code
S420 5 kV Insulation Test Set, 1 pc	S420	Included accessories for S420	
		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

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