

PUTON[®] Surge Tester ST-6K

Introduction

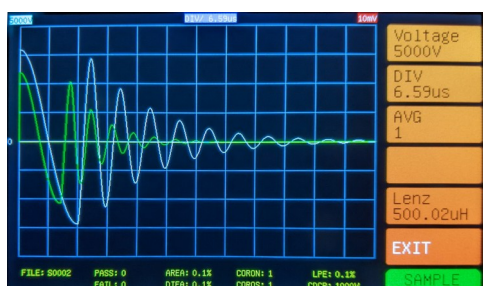
The ST-6K surge tester is a essential instrument for testing winding products such as transformers, motors, rotors, stators, electric valves, generators, and all kinds of coils. It provides the ideal test method to detect the insulation faults

The ST-6K uses high-speed sampling technology, which is able to store the waveform of the standard / master coil and DUT (device under test) in the instrument. By comparing the waveform between the master and DUT, the not faults can be found easily. Moreover, the innovation function of the ideal coil waveform can be display as the master, and the inductance value can be calculated for the partial discharge, which make the ST-6K particular important for production and quality control.



Features

- The ST-6K surge tester, inductance range above 10 μ H.
- The ST-6K supplies the programmable pulse test voltage range 200V~6,000V, non-destructive test, no damage to the coil.
- The ST-6K surger tester provides Partial Discharge Detection Capability.
- The ST-6K provides the area sum comparison, area difference comparison, corona discharge amount, corona discharge number, inductance value percentage error comparison, corona discharge waveform detection, 6 kinds of judgments as comparison basis.
- The ST-6K provides Ideal coil waveform calculation and display function.
- The ST-6K comes up with the Reference waveform, test waveform, corona discharge waveform display.
- The ST-6K furnishes the meticulous voltage measurement setting which improved the the analysis sensitivity.
- The pass/Fail results are displayed directly on the screen, which is convenient, concise and easy to judge.
- The measurement functions such as voltage, frequency and time, the data can be used for backend analysis and research.
- The ST-6K can store 20 sets of sample waveforms internally, and external USB can store additional waveforms.
- The ST-6K supplies 7-inch HMI touch screen selection form, easy to operate.
- The ST-6K is equipped with RS-232, TCP/IP transmission interface, which can be connected with the PC terminal, which is convenient for data transmission and programming, and establishes the required test system.
- The ST-6K is equipped with external I/O to connect with D-Sub 15PIN Connector, the operator can connect with the factory automatic or semi-automatic test platform.
- The ST-6K can be used for electric vehicle motor testing.



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Specifications

Type	ST-6K
Test Voltage	200V ~ 6,000V(±3%), 100V step
Output energy	Max 0.25J
Inductance Range of Test Coil	10μH Above
Sampling Rate	12bit / 5ns (200MHz)
Sampling Memory Depth	600 X 12 bit
Input Resistance	10MΩ
Display	800 x 480 · 7" TFT-LCD
Waveform type and measurement	Area Size Comparison, AREA DiffZone Comparison, DIF Comparison Corona Number Comparison, CORON Corona Amount, COROS Lenz Percent Error, LPE Corona Discharge Current Pulse, CDCP
Storage Waveforms	Internal 20 sets, external USB available for CSV format
Comparison Output	Pass/Fail display, beeping
Communication	RS-232, I/O, TCP/IP
Operation Temperature	0°C ~ 45°C (32°F ~ 113°F)
Voltage	100V/240V AC
Frequency	50/60Hz
Dimension L x W x H	340 × 328.4 × 167.08 mm
Weight	6.8Kg
PC requirement	Windows 10 · Windows 11
Application	Electric vehicle motor power inductors, power chokes, transformers, inductors, coils, winding product manufacturers, winding component IQC
Standard Accessories	Main unit x1 High voltage test line x1 AC power cord x1 RS-232 to USB cable x1 Ethernet cable x1
Optional Accessories	foot switch x1

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