

STL5520 Series Winding Component EST Tester

Features

- High-resolution: 7-inch 800 × 480 dots, TFT-LCD display
- Six-in-one comprehensive analysis, one machine can achieve the comprehensive test needs of coil components
- High-power AC withstand voltage analysis
- DC voltage analysis
- Insulation resistance analysis
- Turn-to-turn insulation analysis
- DC low resistance analysis
- Inductance test analysis
- Eight-channel switching technology that can test eight different components simultaneously
- 500VA power AC withstand voltage design, in line with UL 1004-1 motor test standards
- Insulation resistance test: maximum voltage can reach 5kV
- DC / IR automatic rapid discharge function
- Turn-to-turn insulation test: sampling ADC promoting to 12bit, 200MHz sampling rate
- DC low resistance test: support DC resistance calculation of △ Y-type motor
- DC low resistance temperature conversion function and optional temperature sensor
- Inductance test analysis of up to 100kHz frequency
- Quick contact check function to realize rapid detection of test fixture
- New-type high voltage test fixture Four-terminal Kelvin test of DC low resistance and inductance
- Test steps up to 32
- Internal file storage and external U disk file saving

NEW


STL5520

Dimension(mm): 430(W)×177(H)×570(D)

Weight: 25kg

 Standard RS232 USB HOST USB DEVICE HANDLER LAN

 Option GPIB

Application

- Comprehensive analysis test of motors
- Comprehensive analysis test of transformers
- Comprehensive test of inductors
- Comprehensive analysis test of charging pile inductance characteristics
- Comprehensive analysis test of magnetic components

Specifications

Model	STL5520		STL5520A				
Number of channels	8						
Withstand test							
Output voltage	AC	0.050 - 5.000kV, Step 0.001kV, Frequency 50Hz/60Hz ±0.1%, sinusoidal waveform					
	DC	0.050 - 6.000kV, Step 0.001kV					
	Accuracy	± (1% set value + 0.1% of full scale)					
	Adjustment rate	(1% output + 0.1% of full scale) rated power					
Current range	AC	Voltage≤4.000kV: 0.001mA - 120.0mA, Voltage>4.000kV: 0.001mA - 100.0mA	0.001mA - 40.0mA				
	DC	0.1uA - 20.0mA	0.1μA - 10.0mA				
	Accuracy	± (1% of reading + 0.5% of full scale), AC Real: ± (1% of reading + 5% of total current reading + 5 digits)					
Output power	AC:500VA DC:120VA	AC:200VA DC:60VA					
ARC	AC	1.0mA - 20.0mA, 0.1mA Step					
	DC	1.0mA - 10.0mA, 0.1mA Step					
Insulation resistance test							
Output voltage		0.050 - 5.000kV, Step 0.001kV	0.050 - 1.000kV, Step 0.001kV				
Resistance test range		Accuracy: ± (1% of set value + 0.1% of full scale)	Accuracy: ± (1% of set value + 0.1% of full scale)				
Measurement accuracy	0.100MΩ- 99.99GΩ Resolution: 0.1MΩ						
	≥500V		1.000MΩ - 1.000GΩ, ± (3% of reading + 5 digits)				
	1.000GΩ - 10.00GΩ, ± (7% of reading + 5 digits)						
	10.00GΩ - 99.99GΩ, ± (10% of reading + 5 digits)						
< 500V	0.100MΩ - 1.000GΩ, ± (7% of reading + 5 digits)						
	1.000GΩ - 99.99GΩ, for reference only, no accuracy requirements						
Time setting							
Rise time	OFF, 0.1s - 999.9s, Step 0.1s						
Test time	0.1s - 999.9s, Step 0.1s						
Fall time	OFF, 0.1s - 999.9s, Step 0.1s						
Waiting time	OFF, 0.1s - 999.9s, Step 0.1s						
Turn-to-turn insulation test							
Output pulse voltage	0.01kV - 6.000kV, 0.01kV Step, ± 5% set value ± 15V		0.01kV - 3.000kV, 0.01kV Step, ± 5% set value ± 15V				
Inductance test range	≥10μH						
Pulse energy	up to 0.36 Joule						
Waveform Sampling	Sampling rate: 12bit, Sampling speed: 200MHz, adjustable 8-level, Memory depth: 12k Byte, Sample average: 1 - 32						
Number of applied pulses	up to 32						
Judgment method	Area comparison, area difference comparison, corona discharge, phase difference comparison						
DC low resistance test / △ and Y type resistance test							
Test signal	100 mΩ 1A, 1Ω 0.5A, others ≤3V						
Test range	0.01mΩ - 1.2MΩ						
Resistance	Range	0.01mΩ - 120.00mΩ	0.1mΩ - 1200.0mΩ	0.001Ω - 12.000Ω			
	Accuracy	± 0.5% of reading + 0.04% of full scale	± 0.3% of reading + 0.03% of full scale	± 0.2% of reading + 0.03% of full scale			
Inductance test(standard)		Inductance test(option)					
Test parameters	Ls, Lp, Rs, Rp, Q						
Measurement accuracy	0.5%						
Test frequency	100Hz, 120Hz, 1kHz, 10kHz, 100kHz						
Test signal level	1.0VRMS, 10% accuracy						