

Safety Tester/Hipot Tester

IV. STL1120/A/D Hipot Tester

Features

- Withstand voltage test: AC: 10kV/20mA/200VA
DC: 12kV/10mA/120VA
- Breakdown voltage test: AC: 0.05-10.0kV, resolution 10V
DC: 0.05-12kV, resolution 10V
- Insulation resistance test: 0.1MΩ–50.0GΩ
- ARC detection function
- Open and short circuit detection function OSC (only TH9120/A)
- High resolution: 7 inches 800×480 dots, TFT-LCD display
- One-click screenshot function
- Rear panel output function facilitates automated testing of production lines
- Storage: 100 files, up to 50 steps per file
- Contact check function

Application

- High withstand voltage test
High-voltage optocouplers, high-voltage relays, high-voltage switches and other high-insulation devices
- Electronic components
Capacitors, coils, cores, chokes, filters, etc.
- Electrical products
Household appliances, information products, audio-visual equipment, electric heating appliances, lighting equipment




RS232	USB HOST	USB DEVICE	HANDLER	LAN	GPIB
standard	standard	standard	standard	standard	option

Dimension(mm):430mm(W)x132mm(H)x500mm(D)

Weight: 21kg

- Non-electrical products
Withstand voltage and insulation resistance test of wire, non-woven fabric, insulating material, etc.
- New energy vehicles
- Automatic test system

Specifications

Model	STL1120	STL1120A	STL1120D		
Test mode	AC/DC/IR/OSC	AC/OSC	DC/IR		
Withstand voltage test					
Output voltage	AC	Voltage range	0.05-10.0kV	-----	
		Voltage waveform	50/60Hz ±0.1% Sine wave	-----	
		Output power	200VA(10.0kV / 20mA)	-----	
	DC	Voltage range	0.05-12.0kV	-----	0.05-12.0kV
Output power		120VA(12.0kV/10mA)	-----	120VA(12.0kV 10mA)	
Load change rate	±(1% set value + 10V) (rated power)				
Voltage resolution	2V				
Voltage accuracy	±(1% set value + 0.1% full scale)				
Current test range	AC	Current range	0.001mA-20mA	-----	
		Current resolution	0.001mA	-----	
		Current accuracy	0.100mA-2.999mA ±(1% reading + 0.5% full scale)	-----	
	DC	Current range	0.0001mA-10mA	-----	0.0001mA-10mA
		Current resolution	0.0001mA-10mA	-----	0.1uA
		Current accuracy	±(1% reading + 0.5% full scale)	-----	±(1% reading + 0.5% full scale)
Maximum short circuit current	40mA (AC test only)		-----		
Fast discharge function	Automatic discharge after test (DCW)	-----	Automatic discharge after test (DCW)		
Insulation resistance test					
Output voltage	DC:0.05-5.0kV	-----	DC:0.05-5.0kV		
Voltage resolution	2V	-----	2V		
Voltage accuracy	±(1% set value + 0.5% full scale)				
Resistance test range	0.1MΩ– 50.0GΩ	-----	0.1MΩ– 50.0GΩ		

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Resistance test accuracy	Voltage $\geq 0.5\text{kV}$	1M Ω –1G Ω	\pm (3% reading + 0.1% full scale)	-----	\pm (3% reading + 0.1% full scale)
		1G Ω –10G Ω	\pm (3% reading + 0.1% full scale)	-----	\pm (7% reading + 2% full scale)
		10G Ω –50G Ω	\pm (10% reading + 1% full scale)	-----	\pm (10% reading + 1% full scale)
	Voltage $< 500\text{V}$	0.1M Ω –1G Ω	\pm (5% reading + 2% full scale)	-----	\pm (5% reading + 2% full scale)
Arc detection					
Program setting	AC		1.0mA-20.0mA		-----
	DC		1.0mA-10.0mA	-----	1.0mA-10.0mA
OSC open and short detection					
Sampling standard capacitance range		0.001—40nF		-----	
Open circuit judgment range		10%—100%		-----	
Short circuit judgment range		100%—500%		-----	
Time setting					
Test time		0.3—999s, 0 means continuous test			
Rise time		0.1—999s, 0 means OFF			
Fall time		0.1—999s, 0 means OFF			
Waiting time		0.1—999s, 0 means OFF (DC withstand voltage only)			
Safety protection function					
Shock protection		0.5mA \pm 0.25mA Optional: ON or OFF			
Start protection (Interlock)		When the pin is connected with low terminal, high voltage output is allowed.			
Panel operation protection		Key lock, password			
Alarm indication		PASS: short sound, green light; FAIL: long sound, red light			
Storage and interface					
Internal memory		100 files can be stored and 50 steps can be edited in each file			
Standard interface		RS232, USB DEVICE, USB HOST, LAN, HANDLER			
Optional interface		GPIB			
Ambient temperature and humidity					
Parameter comparison temperature		18 $^{\circ}\text{C}$ ~28 $^{\circ}\text{C}$, Humidity: 30%~70%RH			
Normal working temperature		0 $^{\circ}\text{C}$ ~45 $^{\circ}\text{C}$, Humidity: 20%~90%RH			
Storage environment temperature		-10 $^{\circ}\text{C}$ ~55 $^{\circ}\text{C}$, Humidity:< 80%RH			
General specification					
Power supply		100V~240VAC, 47Hz~63Hz			
Power		No load:< 100W Rated power:300W			
Volume		430mm (W) x 132mm (H) x 500mm (D)			
Weight		21kg			