

Electrostatic Discharge Simulator

EDS 30V



In Compliance With

- > ISO 10605:2001
- > GB/T 19951-2005
- > IEC61000-4-2
- > GB/T 17626.2

Introduction

Static electricity between objects or two objects can sometimes generate voltages of up to tens of thousands of volts, which can cause electrical and electronic equipment circuits to malfunction or even damage. EDS 30V is an advanced intelligent electrostatic discharge generator with an output voltage of 30kV, which is also an electrostatic discharge simulator independently developed and produced, integrating discharge nozzle head and touch screen control, in accordance with ISO 10605 and GB/T 19951 standards. The LCD touch screen is easy to operate, the power supply can be selected from AC and battery box, the RC module is replaceable, and the built-in temperature and humidity meter ensures the reliability of use in various test occasions.

Features






- > Ergonomic design;
- > LCD touch screen control;
- > Temperature and humidity record and protection;
- > Automatic polarity switching;
- > Discharge modules can be replaced automatic identification;
- > Built-in standard test library;
- > Intelligent detection of the failure of air discharge.









Application Areas

- > Automotive

Technical Parameters	
Contact Discharge	200 V – 30,000 V, +/-5%
Air Discharge	200 V – 30,000 V, +/-5%
Voltage Step	100 V
Charging resistance	51MΩ
Holding Time	> 5 s
Polarity	+/-
RC Module Recognition	Automatic recognition and LCD display
Temperature And Humidity	Built-in thermo-hygrometer with record and protection function
Pulse Repetition Rate	single/0.1/0.2/0.5/1/2/5/10/20 Hz
Trigger Mode	manual& auto
Pulse Counter	1-9999
Discharge Module	330 pF / 2000 Ω 150 pF / 2000 Ω 330 pF / 330 Ω 150 pF / 330 Ω
Rising Time	0.7-1.0 ns
Evaluate Procedure	Contact discharge test at 20 Hz, evaluate the test points of DUT

General Parameters	
Total Weight	Approx.12.0 kg
Weight (EDS Gun)	Approx.2.0 kg
Environment Temperature	15℃ - 35℃ (operating conditions)
Relative Humidity	30%-60% (operating conditions)
Air Pressure	86 kPa-106 kPa
Working Power Supply	100 V - 240 V +/-10%, 50/60 Hz

Standard Equipped	
1.Discharge Gun 	Discharge gun and control (1 pc)
2.High Voltage Generator 	High voltage power supply with programmable control (1 pc)
3.Standard RC Module 	330 pF / 2000 Ω; 150 pF / 2000 Ω; 330 pF / 330 Ω; 150 pF / 330 Ω; RC module is detachable
4.Discharge Tip 	Contact discharge tip
5.Discharge Tip 	Air discharge tip
6.Grounding Wire	2 m
7.Package	Suitcase
8.Documents	Factory calibration report and user manual

Optional Accessories		Optional Accessories	
1.RC Module 	100 pF/1500 ohm (EDS) 150 pF/150 ohm (EDS) 500 pF/500 ohm (EDS) 500 pF/5000 ohm (EDS) 200 pF/0 ohm (EDS) 500 pF/0 ohm (EDS) 500 pF/100 ohm (EDS) Support other RC modules customization	6. ESD calibration set ESD-CALA 	Used for calibration waveforms as per ISO 10605, including 2 ohm target/4 GHz, attenuator, coaxial cable and user manual
		7. Attenuator JZ602 	Impedance: 50 Ω Attenuation: 20 dB
2.30 mm Air Discharge Tip EDS 30T-AIR (30mm) 	For 15 kV to 30 kV test	8. Attenuator JZ603 	Impedance: 50 Ω Attenuation: 30 dB
3. Battery Box EDS01 	8*2600 mAh, Ni-MH charging battery, around 8h for contact discharge with +30 kV, 1 Hz, Dimension 140 mm x100 mm x35 mm. weight 0.5 kg	9. EDS 20H-PC Communication EDS 20H-REMOTE	Realize the remote control function of the upper computer software to the instrument
4.Battery Charger 	Charging for battery box EDS01	10. PC Software Corelab	> Compatible with Windows 7, Windows 8 and Windows 10 operating systems; > support Ethernet interface and serial interface communication mode; > support scheduling testing, test sequence parameters and the key test, the operation is simple > can be set up customer information, automatic generation of test reports, and support the export of test report, the convenient user record data in real time;
5.Electrostatic Discharge Test Setup 	Grounding high voltage resistor: 2x470 kohm		
	Vertical coupling plane: 500 x 500 mm		
	Horizontal coupling plane: 1600 x 800 mm		
	Grounding reference plane: 2700 x 1800 mm		
	Test table: 1600 x800 x 800 mm, fully wooden, as per IEC 61000-4-2		



SUZHOU 3CTEST ELECTRONIC CO., LTD.

Add.: No. 99 E'meishan Road, SND, Suzhou, Jiangsu Province, China

Tel: +86 (0)512 6807 7192 Fax: +86-512-68079795

Sales Email: globalsales@3ctest.cn Service Email: service@3ctest.cn

www.3c-test.com