

Electrostatic Discharge Simulator

EDS 30V

Datasheet



In Compliance with

- > ISO 10605:2001
- > GB/T 19951-2005

Introduction

The static electricity between human body and an object or between two objects sometimes can be up to tens of thousands of volts, which may cause electrical and electronic equipments circuit malfunction or even damage. EDS 30V is a most advanced intelligent electrostatic discharge generator, the output voltage 30kV, it is also China's first independent research and development product by integrating discharge tip and touch screen control in an electrostatic discharge simulator as per ISO 10605 and GB/T 19951 standards. LCD touch screen is simple and easy to operate, RC module can be replaced, the built-in thermo-hygrometer, remote control software, to ensure the reliability of all kinds of tests.

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
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 °C - 35 °C (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

Options	
<p>1.RC Module</p> 	<p>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</p>
<p>2.30 mm Air Discharge Tip EDS 30T-AIR (30mm)</p> 	<p>For 15 kV to 30 kV test</p>
<p>3. Battery box EDS01</p> 	<p>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</p>
<p>4.Battery charger</p> 	<p>Charging for battery box EDS01</p>
<p>5.Electrostatic Discharge Test Setup</p> 	<p>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</p>
<p>6. ESD calibration set ESD-CALA</p> 	<p>Used for calibration waveforms as per ISO 10605, including 2 ohm target/4 GHz, attenuator, coaxial cable and user manual</p>
<p>7. Attenuator JZ602</p> 	<p>Impedance: 50 Ω Attenuation: 20 dB</p>
<p>8. Attenuator JZ603</p> 	<p>Impedance: 50 Ω Attenuation: 30 dB</p>



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