

# S6V311 1 kV/ $\mu$ s Impulse Voltage Test System

## Datasheet



### In Compliance with

- > IEC60065
- > EN/IEC61643-311
- > GB/T18802.311

### Introduction

S6V311 is an intelligent impulse voltage simulator as per international standards and product series standards to test gas discharging tube and air gap discharger. The two main technical parameters of SPD is 1 kV/ $\mu$ s impulse breakdown voltage and 1.2/50 breakdown voltage.

S6 is the best option for compact impulse voltage test as per single phase DUT immunity requirements of CE and CCC certification.

### Features

- > 5.7 inch color touch screen front panel operation
- > Programmable test function
- > Ethernet, RJ45 port for remote control, print and documentation
- > Imported electronic switch for main switch

### Application Areas

- > Communication
- > Telecom
- > Medical
- > Radio and TV
- > Railway
- > Information technology
- > Military
- > Aviation
- > New energy power

General Parameters	
Display screen	5.7 inch TFT color touch screen
Power supply	AC 110 V / 220 V, $\pm 10\%$ , 50 / 60 Hz $\pm 5\%$ (default AC 220 V 50 Hz)
Fuse	6 A
Max. Power consumption	100 W
Memory space	infinite (PC)
Communication mode	Ethernet, RJ 45
External control	D-sub 25 p
External trigger input	BNC, 5 V TTL
CRO trigger output	BNC, 5 V TTL
Input	BNC, 5 V TTL
Warning LED	0-220 VAC 10 A/0-48 VDC 3 A Depending on external signal lamp
Safety circuit	Test only can be started when it is closed
Failure test	Display on LCD and interrupt the work at failure case
Working indicator	LED, LCD front panel display
Grounding connection	Flat ground line
Size	19 inch / 4U
Weight	Approx. 15 Kg
Temperature	15 – 35 °C
Humidity	45% - 75%
Air pressure	86 kPa - 106 kPa

Impulse Voltage Test as per IEC 61643-1 & GB/T 18802.1	
SURGE module	
Standard	IEC 61643-311、GB / T 18802.311
Test voltage	500 V~4500 $\pm$ 10%
Voltage waveform	Front time: 1.2 $\mu$ s $\pm$ 30 % Time to half value: 50 $\mu$ s $\pm$ 20 %
Source output impedance	500 ohm
Output polarity	+/-
Pulse cycle	10 s - 99 s
Number of test	1 - 999
Trigger mode	Automatic, manual and external

### Basic equipments

Simulator, user manual, test report, test cable and fuse

### Optional Accessories

1.HV differential probe, model: VCF-80, test voltage: 8 kV, attenuation ratio: 1000: 1

2. HV current sensor, model: TR5025

3.PC control software EMSLab

With PC installed WIN XP and WIN7, it can be easily operated to make the measurement, based on the customized test program. It can identify any device with automatic configuration.

It can easily generate test reports.



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