



Intelligent Impulse Voltage Testing Equipment

S6V311

- IEC 60065
- IEC/EN 61643-311
- IEC 61643-1

Features

- > 5.7-inch color touch screen front panel operation
- > Support test sequencing function
- > Ethernet / RJ45 interface for remote PC control and test report printing
- > Main switch adopts imported electronic switch

Introduction

The S6V311 is an intelligent impulse voltage test equipment developed in compliance with IEC 60065, IEC/EN 61643-311 and IEC 61643-1. It is used to test two key parameters of gas discharge tubes, air-gap arresters, and SPDs incorporating gas discharge tubes and air-gap arresters: 1 kV/ μ s impulse spark-over voltage and 1.2/50 spark-over voltage.

The S6 Series is designed for precise and efficient miniature impulse voltage testing. It supports immunity testing of single-phase EUTs for EU CE and CCC compliance. Featuring intuitive touchscreen control, the system provides fully automated test operation. A wide selection of accessories ensures flexible testing of various DUTs, including components, power modules, and surge protection devices.

Application Areas



Technical Parameters

Complies with IEC 61643-311, GB/T 18802.311 Impulse Voltage Test	
Test Current Range	500 A ~ 5,000 A, $\pm 10\%$
Current Waveform	Front time: 1,000 V/ μs $\pm 20\%$ Time to half value: None
Output Polarity	Positive, negative
Source Impedance	1,000 Ω
Pulse Period	10 s ~ 99 s
Test Count	1 ~ 999
Trigger Mode	Manual, Auto, External Trigger
Complies with IEC 61643-1, GB/T 18802.1 Impulse Voltage Test	
Test Current Range	500 A ~ 5,000 A, $\pm 10\%$
Current Waveform	Front time: 1.2 μs $\pm 20\%$ Time to half value: 50 μs $\pm 20\%$
Output Polarity	Positive, negative
Source Impedance	500 Ω
Pulse Period	10 s ~ 99 s
Test Count	1 ~ 999
Trigger Mode	Manual, Auto, External Trigger

General Parameters

Display Screen	5.7" TFT touch screen
Working Power	AC 110V/220 V, $\pm 10\%$, 50/60 Hz $\pm 5\%$
Fuse	6 A
Max. Power Consumption	100 W
Communication Mode	Ethernet LAN
User Storage Capacity	Unlimited (PC)
Auxiliary Interface	D-sub 25 p
External Trigger Input	BNC, 5 V TTL
CRO Trigger Output	BNC, 5 V TTL
Operation Control Input	BNC, 5 V TTL
Warning Lamp Output	0-220 V AC 10 A / 0-48 V DC 3 A; power supply depends on external warning lamp type
Safety Circuit	Unit stops operation when safety loop is not closed
Failure Detection	LCD display in front panel and stop work when failure occurs
Working Status Indication	LED indication and LCD display in front panel
Grounding Method	Flat grounding wire
Dimension	4U rack, 450 * 190 * 620 mm
Weight	Approx. 15 kg
Atmospheric Pressure	86 kPa ~ 106 kPa
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%

Standard Accessories

Three-core Power Cord, User Manual, Test Cables, Grounding Wire, Fuse

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