

# Single-phase Voltage Dip Simulator

## **VDS-1103B** [Introduction]

The Lioncel VDS-1103B Single-Phase AC Voltage Dip Simulator is a highly reliable and precise testing device specifically designed to cater to the characteristics and requirements of voltage transient and short interruption immunity tests for single- phase electrical equipment. The performance of this device meets the standards of IEC 61000-4-11 and GB/T 17626.11.

The VDS-1103B series features a compact size and lightweight design. It can achieve a maximum voltage of 690V and a maximum current of 32A.

## **Compliance Standards**

IEC 61000-4-11 \ EN 61000-4-11 \ GB/T 17626.11

## **Application Fields**

Industrial equipment, electrical instrumentation, medical devices, lighting appliances, communica tion transmission equipment, audio and video equipment, low-voltage electrical appliances, electro nic components, electric tools, information technology equipment, and instruments and meters.

#### **Technical Features**

- ◆ Meets the testing requirements of IEC 61000-4-11 and GB/T 17626.11;
- Features a full-color touchscreen for interface programming control, IEC level setting, and real-time display of test waveforms, voltage, and current parameters;
- Designed with an expandable modular structure, allowing the main unit to operate independently or be expanded for universal power grid simulation;
- Fully compatible with 50 Hz and 60 Hz, with automatic frequency and voltage detection, calculation, and adjustment;
- Comes standard with an RS485 control interface for upper computer control;
- Offers excellent voltage switching characteristics (switching time less than 5 microseconds) to meet standard requirements.;

#### **Parameter List**

Specification Model	VDS-1103B
Type of Interference	Single-Phase Voltage Dip Simulator
EUT Capacity	Single-phase, maximum voltage AC 690 V/32 A

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Power Grid Frequency	50 Hz/60 Hz
Voltage Dip Test Voltage	Single-phase: Settable from 0-220 V in 2.5% steps
Overshoot Variation of Generator Output Voltage Under Rated Load Conditions	Accuracy within 5% of UT (set voltage)
Phase Relationship between Voltage Dip/Interruption and Power Supply Frequency	< ±10°
Inrush Current	≥ 500 A
Starting Phase of Voltage Dip (Rise)	0 ~ 359° (1° step)
Ending Phase of Voltage Dip (Rise)	0 $\sim$ 359° (1° step)
IEC Standard Test Voltage	0%, 40%, 70%, 80%, 120% EUT
Number of Continuous Cycles of Voltage Dip (Rise)	0.1 $\sim$ 9999 cycles (50 Hz and 60 Hz)
Number of Interval Cycles of Voltage Dip (Rise)	5 $\sim$ 9999 cycles (50 Hz and 60 Hz)