



Compliant with Standards

- IEC61000-4-5
- EN61000-4-5
- GB/T17626.5

ES-516A Single-Phase Surge Generator

Meets Surge Immunity Test Requirements

Features

- EUT capacity range: AC: 0~220V/16A DC: 0~110V/16A
- Surge voltage range: 0.2kV~6kV
- Smooth waveform with no spikes
- Stable performance and long-lasting durability
- Automatic switching of coupling paths
- Accurate surge-voltage phase output
- Automatic report storage; optional templates
- EUT damage alarm supported after surge testing
- Electronic switching technology for long service life
- Waveform displayed on screen in real time for each surge impact (optional)

Technical Parameters

Surge Generator Specifications	
EUT Power Capacity	AC: 0~220V/16A DC: 0~110V/16A
Surge Voltage	0.2kV~6kV
Surge Current	≤3kA
Step Voltage	0.1kV~2kV, freely adjustable
Output Voltage Polarity	Positive, negative, pos.-neg., neg.-pos.
Open-Circuit Voltage Wave	Front time: 1.2μs ±30%; pulse width: 50μs ±20%
Short-Circuit Current Wave	Front time: 8μs ±20%; pulse width: 20μs ±20%
Impedance	2Ω, 12Ω
Coupling Mode	Direct output, common mode, differential mode
Coupling Capacitance	18μF differential mode, 9μF common mode
Decoupling Inductance	1.3mH
Pulse Interval	10s~999s adjustable (depends on pulse voltage range)
Injection Mode	Asynchronous, synchronous
Phase Angle	0~359°, resolution 1°
Standard Phase	0°, 90°, 180°, 270°
IEC Standard	Built-in; directly callable for IEC or GB/T standard tests
Pulse Count	1~99999 times
Coupling/Decoupling Network	Single-phase three-wire (built-in) / DC (compatible)
Network Switching Mode	Automatic switching
Operating System	Android
Display	10.1-inch intelligent capacitive touch display

Interfaces	HDMI, USB, etc.
Development Interfaces	RS485, LAN, etc.
Operating Environment	Temperature: 10°C~40°C, humidity: 30%~70%
Power Supply	AC: 110V/220V@50Hz/60Hz
Dimensions	4U/19" standard chassis
Weight	14kg

Applications

Power equipment
Industrial automation equipment
Renewable energy systems
Railway and transportation electronics
Household appliances
Instrumentation



Main unit 2-year warranty



24-hour x 365-day service



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