



Photovoltaic Impulse Voltage Generator

PVSG 2500

- IEC 60060-1
- IEC 62109-1
- GB/T 37408

Features

- > 5.7-inch color touch screen front panel operation
- > Output voltage 500 V ~ 25,000 V
- > Source output impedance < 2 Ω and 500 Ω
- > Built-in surge voltage measurement module, viewing waveform via oscilloscope is available
- > Built-in real-time peak voltage monitor function
- > Breakdown alarm current for EUT 100 mA ~ 1,200 mA
- > Ethernet, RJ45 interface for PC remote control and test report printing

Introduction

The PVSG 2500 photovoltaic impulse voltage generator complies with IEC 62109-1, IEC 60060-1 and GB/T 37408. It meets the requirements for impulse voltage tests and photovoltaic inverter impulse voltage testing. It can output a standard 1.2/50 μ s lightning impulse voltage waveform ranging from 500 V to 25,000 V. It provides two source output impedance options less than 2 Ω and 500 Ω , which support clearance testing and solid insulation testing of the equipment under test (EUT).

Application Areas



Technical Parameters

Test Voltage	0.5 kV ~ 25 kV
Calibration Voltage	1 kV ~ 25 kV $\pm 3\%$; Alternative voltage below 1 kV
Voltage Waveform	Front time: 1.2 μs $\pm 30\%$ Time to half-value: 50 μs $\pm 20\%$
Source Impedance	$< 2 \Omega$, 500 Ω
Polarity	Positive, negative, alternative
Repetition Time	5 s ~ 9,999 s (The shortest time depends on test voltage)
Counter	1 ~ 9,999
Trigger Mode	Manual, Auto, External Trigger, Oscilloscope Trigger
Peak Value Acquisition	Monitor via coaxial port on front panel: 10 V@ 25 kV
EUT Breakdown Alert Current	100 mA ~ 1,200 mA
Charging Display	Count-down display

General Parameters

Display Screen	5.7-inch TFT touch screen
Working Power	AC 110/220 V, $\pm 10\%$, 50 Hz/60 Hz
Fuse	6 A
Max. Power Consumption	200 W
Communication Mode	Ethernet LAN, RJ45
Working Status Indication	LED indication and LCD display on front panel
Failure Detection	Fault indication via front-panel LCD with automatic unit shutdown
Dimension	19-inch/8U rack
Weight	Approx. 45 kg
Ambient Temperature	15°C ~ 35°C
Relative Humidity	45% ~ 75%
Atmospheric Pressure	86 kPa ~ 106 kPa

Standard Accessories

Test Cable, Shorting Plug, Grounding Wire, Three-core Power Cord, Fuse, User Manual

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