

Photovoltaic Impulse Voltage Generator PVSG 2500

Datasheet



In compliance with

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

Introduction

The photovoltaic impulse voltage generator PVSG 2500 is designed as per 7.5.1 Impulse voltage test (type test) in IEC 62109-1 Safety of power converters for use in photovoltaic power systems –Part 1: General requirements and photovoltaic inverter impulse voltage test specified in GB/T 37408, which is capable of generating 1.2/50 μ s impulse test waveform ranging from 0.5 kV to 25 kV. The source impedance covers two types: less than 2 ohm and 500 ohm, which can satisfy the clearances and solid insulation test requirement.

Features

- > 5.7 inches color touch screen on front panel;
- > As per IEC 62109-1 and GB/T 37408;
- > Output voltage 0.5 kV to 25 kV;
- > Source impedance: <2 ohm and 500 ohm;
- > Built-in surge voltage measurement module, viewing waveform via oscilloscope is available;
- > Built-in peak voltage monitor function;
- > EUT breakdown alert function, setting range 100mA~1200 mA;
- > Ethernet, RJ45 interface for PC remote control and test report print

Application Areas

- > New Energy Electric power

| Technical Parameters | |
|-----------------------------|---|
| Standard | IEC 62109-1, GB/T 37408 |
| Test Voltage | 0.5 kV ~ 25.0 kV |
| Calibration voltage | 1 kV ~ 25.0 kV $\pm 3\%$; Alternative voltage below 1KV |
| Rise Time | 1.2 $\mu\text{s} \pm 30\%$ |
| Duration | 50 $\mu\text{s} \pm 20\%$ |
| Source Impedance | < 2 ohm, 500 ohm |
| Polarity | Positive, negative, alternative |
| Repetition Rate | 5 s ~ 9999 s (The shortest time depends on test voltage) |
| Counter | 1~ 9999 |
| Trigger Mode | Manual, Auto, External Trigger |
| Measurement | Monitor via coaxial port on front panel: 10 V @ 25 kV |
| Peak Value Acquisition | Display on touch screen |
| EUT Breakdown Alert Current | 100 mA ~ 1200 mA |
| Charging Display | Count-down display |

| Accessories | |
|--|--|
| User Manual, Test line, short-circuit plug, Earth line, 3-core power line, fuses (Spare parts) | |

| General Parameters | |
|---------------------------|--|
| Display Screen | 5.7" TFT touch screen |
| Working Power | AC 110 V/220 V ($\pm 10\%$), 50 Hz /60 Hz (Default in mainland China: 220 V) |
| Fuse | 6 A |
| Max. Power | 200 W |
| Communication Mode | Ethernet LAN、RJ45 |
| Failure Detection | The failure information will be displayed on LCD in front panel when failure occurs and interrupt the working of instrument. |
| Working Status Indication | LED indication and LCD display on front panel |
| Earthing Mode | Flat earth line |
| Dimension | 19" /8U (450 mm \times 384 mm \times 610 mm) |
| Weight | Approx. 45 kg |
| Ambient Temperature | 15 $^{\circ}\text{C}$ ~ 35 $^{\circ}\text{C}$ |
| Relative Humidity | 45% ~ 75% |
| Atmospheric Pressure | 86 kPa ~ 106 kPa |



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