

Sine - Wave Pulse Generator SPG 1.2-25000

Impulse Current Generator for 50 Hz semi-sinus waves

Wave shape:

Semi-sinus wave

T/2 = 10 ms

2 Current ranges:

- 0.5 - 7.5 kA
- 25 - 375 A

**Compact
Design**

**Safety-
EUT Cabinet**

Acc. to EN 50470-3

The Sine Wave Pulse Generator is used for impulse current tests of the current conductors of watt-hour meters. The generator produces sinusoidal impulse currents and the wave shape is a 50 Hz sinusoidal half wave and the amplitude is adjustable via the charging voltage of the energy storage capacitor from 0.5 kA to 7.5 kA.

For testing low power watt-hour meters a second output is available, which allows the generation of impulse amplitudes of 25 A up to 375 A.



The pulse shaping network comprises an impulse current measuring resistor for the surveillance of the impulse amplitude. The impulse current output is placed on the top of the generator and it is designed as a high current test adaptor.

The output clamping connectors, as well as at the EUT are placed in the upper part of the cabinet behind a transparent front door, which prevents accidental touching of the connectors, while the tests are in progress.

When the front door is opened the internal high voltage generator is switched off and the energy storage capacitor is discharged.

The operator can define test sequences via the microprocessor controlled operation and display unit, these can be stored on the onboard software and test sequences can be carried out. The following test parameters can be adjusted via a digital turn button and shown in the display: Charging voltage, polarity, number of impulses and impulse repetition rate.

Wave shape of the output current

