

HYBRIDGENERATOR PG 2.5-32

Surge Voltage**1.2/50 μ s****0.1 – 2.5 kV****Surge Current****8/20 μ s****0.05 – 1.25 kA****acc. to****IEC 61000-4-5,****EN 61000-4-5, IEEE 587**

The Combination Wave Generator PG2.5-32 is a combined impulse-current-/impulse-voltage generator which, for high-impedance loads, $R_L > 100\Omega$, delivers a standard impulse voltage with waveform 1.2/50 μ s and, for short-circuited output, a standard impulse current with waveform 8/20 μ s.

It is used for testing components with standardised surge current.

Output terminals are located at the top of the generator and are protected by an isolating cover. The safety test cover has a limit switch, which is connected to interlock loop of the generator. Interrupting the safety interlock loop causes deenergization of the high-voltage pulse generator and discharging of the energy storage capacitor.

A Peakdedektor, who shows the amplitude of the produced surge voltage and surge current, is integrated in the PG25-32. If the detected value of surge current is lower than the adjusted current limit, a red warning light will light up. Is the current limit at the surge creation not fallen below, a green warning light will light up.

PG2.5-32 features a microprocessor controlled user interface and display unit for ease of use. The microprocessor allows the user to execute either standard test routines, or a 'user defined' test sequence.

Moreover, all generator functions may be computer controlled via the isolated optical interface.

The PG2.5-32 excels by its compact design, simple handling and precise reproducibility of test impulses.

Technical specification:
PG 2.5-32
Mainframe:

Microprocessor controlled LCD module	8*40 characters
Parallel printer interface for on-line documentation	25-way 'D' connector
Optical-interface for remote control of the generator	built-in
External Trigger output	10 V at 1 kΩ
Connector for external safety interlock loop	24 V =
and external red and green warning lamps acc. to VDE 0104	230 V, 60W
Mains power	230 V , 50/60 Hz
Dimensions: desk top case W * H * D	471*156*520 mm ³
Weight	25 kg

Combination Wave Generator acc. to IEC 61000-4-5, EN 61000-4-5 (Ed.2, 2005)

Test voltage, (open circuit condition)	0.1 - 2.5 kV ± 10 %
Waveform acc. to VDE 0433, IEC 60	1.2 / 50 μs ± 20 %
Test current, (short circuit condition)	0.05 - 1.25 kA ± 10 %
Waveform acc. to VDE 0433, IEC 60	8 / 20 μs ± 20 %
Polarity of output voltage/current	+/- selectable
maximum stored energy	32 Ws
charging time for max. charging voltage	< 6s
HV-output:	HV-OUT, GND
Monitor output for pulse output voltage	ratio = 1000 : 1 ± 5%
Monitor output for pulse output current	10V ≡ 2.5 kA ± 5%

Start of the Surgetest:

The pulse generation with the adjusted test parameters is initiated with the activation of the START button. After reaching the adjusted charging voltage, the test surge will be created. The adjustment of the test parameters can just be reached by a private code. There, parameters can also get modified.

Default settings: 1 Pulse, Uout = 2.5kV, Ilim = 500A

The peak values of surge current and surge voltage are displayed.

Pass/Fail Reporting:

If the detected values of surge current is lower than a adjusted current limit, a akustic signal sounds and the signal lamp FAIL (red) lights up. Otherwise the signal lamp PASS (green) lights up.

The lamps below the safety test cover do also work in that way.

After opening the Safety test cover, these displays get switched off.

Safety test cover: mounted on the top of the equipment, Typ PA 503,

Dimensions: W * H * D 400 * 150 * 250 mm³

inkl. safety interlock loop connected to the limit switch,
red an green warning lamps installed, acc. to VDE 0104.

OPTION 1 Description of Remote control commands

Incl. PC-interface and light-guide 5 m long.