

High-Voltage AC-Test-Set

HVTS 30-20

HVTS 30-40

Max. test voltage
30 kV \approx

Rise of sinus voltage ramp
0.2 - 30 kV/sec

Output current
1 – 20 / 40 mA



The High-Voltage Test-Set HVTS 30-20/ 30-40 is designed for high-voltage testing of the electrical insulation of electrical equipment and electrical systems. Test voltage adjustable up to 30 kV, 1-20 mA/ 1-40mA. The High-Voltage Test-Set HVTS mainly consists of an high-voltage transformer and a control and display unit. Primary voltage of the high-voltage transformer is generated by a motor driven variac. Output voltage can be selected from 0.2 to 30 kV with a voltage rise adjustable from 0,4 kV/sec to 30 kV/sec. Maximum output current is 20mA / 40mA. The output voltage is measured by a built-in capacitive voltage divider.

The HVTS 30-20/ 30-40 features a microprocessor controlled user interface and a 5" touch screen unit for ease of use. The microprocessor allows the user to execute either standard test routines or a "user defined" test sequence. A standard USB port provides the ability to print a summary of the test parameters to a USB stick.

| Technical specification | HVTS 30-20 | HVTS 30-40 |
|---|---------------------------|------------------------------|
| Mainframe control unit: | | |
| Microprocessor controlled touch panel | 5", 800X480, 24 bit | |
| Optical Ethernet Interface for remote control of the generator | optional | |
| Interface for saving reports | USB | |
| Connector for external safety interlock loop | 24 V = | |
| external red and green warning lamps acc. to VDE 0104 | 230 V, 60W | |
| HV unit: | | |
| Test voltage, adjustable | 0,2 - 30 kV \approx / | |
| Accuracy of the test voltage | < 2% | |
| max. test current, overcurrent switch-off | 1- 20mA | 1- 40mA |
| Output current in mode "burn", adjustable | 1- 20mA | 1- 40mA |
| Accuracy of the test current | < 2% | |
| Rise of sinus voltage ramp, adjustable | 0,24 - 30 kV/sec | |
| Test time at selected voltage level, adjustable | 1 - 100 s | |
| High-voltage output, one terminal connected to GND | hv bushing | |
| Connection for ground rod | M 6 | |
| Ground rod | 0.7 m long | |
| Mains power | 230 V , 50/60 Hz, 1250 VA | |
| Dimensions | W * H * D | 553*800*1250 mm ³ |
| Weight | | 60 kg |
| Option: | | |
| Test chamber on top, build in 19" rack, with security glass door, safety interlock protects the high-voltage output terminals. Upon opening of the door or switching-off of the generator, the HV output switch off. Test space ca. | W*H*D | 470*530*490 mm ³ |

A controller for level examination can be carried out by appropriate sets are parameterized.

Example:

