

# HVTS 3020 / 3040 / 5010

## Alternating voltage testing set

High-voltage test according to standards



### According to

**VDE 0700, VDE 0555, VDE 0113, VDE 0711, VDE0740**

**IEC 60335, IEC 60204, IEC 60598, IEC 60745**

The alternating voltage testing set HVTS 5010 is suitable for the execution of the high-voltage test from isolations to VDE 0113, VDE 0700 part of 500, VDE of 0551 etc.

The device essentially consists of a regulating transformer with motor drive, a high voltage transformer and a control unit. The output voltage can be adjusted..

The power of the HV-transformer amounts to 500 VA, corresponds to a secondary current of 10mA with 50kV (HVTS 5010) or 20/40 mA with 30kV (HVTS 3020/3040). The high voltage output of the transformer is attached to output clamps under the test cover. A built-in capacitive voltage divider allows monitoring the output waveform.

The generator can be operated in different modes.

The generator has an adjustable overcurrent detector. The high voltage transformer is switched off, if the output current exceeds the selected value. Alternatively, the generator can be operated with a current limiting.

The ramp slope of the testing voltage can be adjusted.

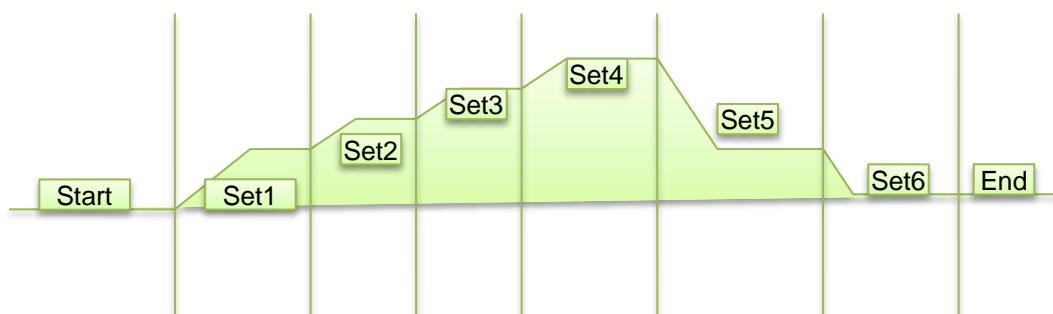
The generator excels by its compact design, simple handling and precise reproducibility of test impulses. It features a microprocessor controlled user interface and a 7" touch screen unit for ease of use. The microprocessor allows the user to execute either standard test routines or a "user defined" test sequence. A standard USB port provides the ability to print a summary of the test parameters to a USB stick.

The software program AC-REMOTE allows full remote control of the test generator via Ethernet light guide as well as documentation and evaluation of test results, accordingly to the IEC 17025. To record definite break downs, it is equipped with an Impulse Recording Function (IRF) Moreover all generator functions may be computer controlled via the isolated optical interface.

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

Example:



### Options

#### Software AC-REMOTE, for remote control

With Impulse Recording Function (IRF)  
( XP, WIN7, WIN10 ) incl. 5m long light guide and PC Ethernet interface

#### Test chamber

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.

Dimensions: W \* H \* D: 470\*530\*490 mm<sup>3</sup>

#### Accessories

Mains cable, Key, Ground rod, Instruction manual.

TECHNICAL SPECIFICATIONS	HVTS 3020	HVTS 3040	HVTS 5010
<b>Mainframe</b>			
Microprocessor controlled touch panel	7", capacitive		
Optical Ethernet Interface for remote control of the generator	optional		
Interface for saving reports	USB		
External Trigger input/ output	Switch/ 10V		
Connector for external safety interlock loop	24 V=		
External red and green warning lamps	24 V=, 40 mA		
Mains power	230 V, 50/60 Hz		
Dimensions W * H * D	550*1250*800 mm <sup>3</sup>		
Weight	80kg		
<b>HV-Generator</b>			
Test voltage, adjustable	0.1 - 30 kV $\approx$		1 - 50 kV $\approx$
Test current, adjustable	1 - 20 mA	1 - 40 mA	1 - 10 mA
Short circuit current, according to the requirements of VDE 0551	> 20 mA		
Test mode, available	turn-off / burn		
High voltage output, referred to ground	back		
Tolerance of output voltage amplitude	$\pm$ 1% based on full scale.		
Rise of sinus voltage ramp, adjustable	0.1 - 30 kV/s		0.1 - 50 kV/s
Rise of sinus voltage ramp, adjustable	1 V/s - 10 kV/s		
Test time, adjustable, 1 sec/Step, turn-off & burn	1 - 100 sec		
Test time, adjustable, 10 sec/Step, only for turn-off	1 - 1000 sec		