

HVA200

VLF High Voltage Test Set



The high power HVA200 Test System is capable of testing cables up to 141 kV (Test Voltage $1.7 \times U_0$). The smallest and lightest VLF unit of his class offers VLF (Very Low Frequency) 0.1 Hz standard testing as well as DC output voltage up to 200 kV. The HVA200 system can be upgraded with optional Tan Delta or Partial Discharge Diagnostics Systems. This space saving configuration allows the test set to be mounted on a van or trailer or can be transported in solid transport boxes (optional).

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Features

- Output voltage 200 kV_{peak} 141 kV_{rms}
- Pure sinusoidal output voltage (load-independent)
- Output current 140 mA max.
- Cable Testing According IEEE400
- Interface: Optical fiber & USB
- Programmable test sequences
- Upgradable with Partial Discharge and Tan Delta diagnostics system (optional)
- PC software "b2 Suite®" with various

- control and reporting functions included
- RMS digital metering of voltage and current Automatic measurement of R and C
- Automatic load calculation and frequency selection (0.01-0.1 Hz)
- Load independent, true symmetrical sinusoidal output over the entire power range
- Flexible positioning

Options

- Tan Delta diagnostics system
- Partial Discharge diagnostics system
- transport boxes
- mounted on a truck or trailer

HVA200

VLF High Voltage Test Set

Type	HVA200	
Article number	SH0218	
Input voltage	3 P + N + PE 16A 230/400 V AC	
Output voltage	VLF sine wave	200 kV peak 141 kV rms
	DC	+/- 200 kV
	accuracy	± 1%
	resolution	0.1 kV
Output current	0-140 mA	
Resistance range	0.1 MΩ-5 GΩ	
Output power	7.2 kVA	
Output frequency	0.01-0.1 Hz in steps of 0.01 Hz default: 0.1 Hz (auto frequency)	
Output load	0.65 μF @ 0.1 Hz @ 141 kV _{rms} max. 10 μF maximum capacitance! ¹	
Sheath test	max. test voltage	10 kV
	trip current	0.1-5.0 mA
Sheath fault location ²	max. test voltage	10 kV
	pulse/period	1:3 / 4 s, 1:5 / 4 s, 1:5 / 6 s, 1:9 / 6 s
Output modes	AC (VLF) symmetrical and load independent across full range DC (plus or negative polarity)	
Safety	12 kV/50 Hz return voltage protection Dual Discharge Device (internal)	
Memory	Software: unlimited; Control Unit: up to 50 reports	
Metering	HVA200: voltage and current (true rms and/or peak), capacitance, resistance, time, flashover voltage Display: voltage and current (true rms and peak)	
HV-cable	3.5 m ALUFLEX connection	
Computer interfaces	Optical fiber and USB	
Dimensions LxWxH	Flex set-up, 430x120x230 cm	
Weight	< 900 kg	
Environmental	temperature: storage -25°C to + 70°C, operating -10°C to + 45°C humidity: 5-70 % non condensing	
Protection class	IP22	

¹ at lower frequency and voltage | ² in combination with locating device (not in scope of supply)

DHV1279 Rev10 - ENGLISH - Subject to alternations. Errors excepted. Illustrations are not binding.

Scope of delivery

- HVA200 testing device
- PC Software: b2 Suite
- Control Box
- HVA200 - DUT ALUFLEX connection
- power cable (CEE extension and adapters (2pcs))
- Connection cables (3 pcs)
- Earthing cables (3 pcs)
- External emergency 50 m on reel
- Short circuit lead (2 pcs)
- USB 2.0 cable
- Display charger
- HV emergency adapter
- USB Stick
- Operating manual



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