

HVA200 & PDTD200-2

VLF High Voltage Test Set and Diagnostics System



picture without PDTD

The high power HVA200 Test System is capable of testing cables up to 138 kV (Test Voltage $1,7 \times U_0$) and allows to diagnose these cables with Partial Discharge and Tan Delta Diagnostics. The HVA200 is for laboratory use or can be fitted as a mobile test laboratory into a van. 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.

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Features

- Output voltage 200 kV_{peak}, 138 kV_{rms}
- Pure sinusoidal output voltage (load-independent)
- Partial Discharge and Tan Delta Diagnostics
- Output current 140 mA max.
- Cable Testing According IEEE400
- Unlimited and continuous duty cycle
- Interface: Bluetooth & USB
- Programmable test sequences
- 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
- Hybrid System
- Flexible positionig
- Almost unlimited operating time

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VLF High Voltage Test Set and Diagnostics System

Type	HVA200	
Article number	SH0218	
Output Voltage	VLF Sinusoidal	200 kV _{peak} 138 kV _{rms}
	DC	+/- 200 kV
Output Current	max. 140 mA	
Output Power	7.2 kVA	
Output Frequency	0.01 - 0.1 Hz	
Max. C Load at 0,1 Hz	0.6 µF - 138 kV _{rms}	
Input Voltage	3 P + N 16A 230/400 V AC	
Input Frequency	48 – 62 Hz	
Input Power	9 kVA	
Output Modes	AC (VLF) Symmetrical and load independent across full range DC (plus or negative polarity)	
Interface	Bluetooth and USB	
Weight	< 850 kg	
Dimension / L x H x W (cm)	Flex set-up / 430 x 230 x 120 cm	
Protection Class	IP22	

Type	Partial Discharge	
Article number	SH0250	
Capacitance Couplingcapacitor / Filter	0.75 nF	
Filter analog, digital, frequency filter	yes	
Capacitance range	0.001 pF to 6 µF	
PD Measurement	Setup according IEC60270	
PD Range	50 pC up to 100 nC	
Bandwith	150 kHz up to 50 MHz	
Max. length of cable	≥ 10km	
Measurement Range	up to 100 km	
Coupling capacitor dimension / weight	178 cm long x 66 cm in diameter / 90 kg	
Filter dimension / weight	178 cm long x 66 cm in diameter / 90 kg	
Metering Cable	length with PD activities, PD location, PD mapping, PD magnitude, Sine Wave Imposed display, Background Noise, PDIV and PDEV	

Type	Tan Delta Diagnostics	
Accuracy	3x10 ⁻⁴	
Resolution	1x10 ⁻⁵	
Load range	1 nF up to 10 µF	

Options

- Transport Boxes