

# 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 140 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.

[www.b2hv.at](http://www.b2hv.at)

## Features

- Output voltage 200 kV<sub>peak</sub>, 140 kV<sub>rms</sub>
- 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

**b2**  
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# HVA200 & PDTD200-2

## VLF High Voltage Test Set and Diagnostics System

| Type                       | HVA200  |  |
|----------------------------|---|--|
| Article number             | SH0218  |  |
| Output Voltage             | VLF Sinusoidal  | 200 kV <sub>peak</sub> 140 kV <sub>rms</sub> |
|                            | 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 - 140 kV <sub>rms</sub>  |  |
| Input Voltage              | 3 P + N + PE 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<br>DC (plus or negative polarity) |  |
| Interface                  | Bluetooth and USB   |  |
| Weight                     | < 900 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 - 6 µF   |  |
| PD Measurement                           | Setup according IEC60270   |  |
| PD Range                                 | 1 pC up to 500 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,<br>PD magnitude, Sine Wave Imposed display, Background<br>Noise, PDIV and PDEV |  |

| Type       | Tan Delta Diagnostics |  |
|------------|-----------------------|--|
| Accuracy   | 3x10 <sup>-4</sup>    |  |
| Resolution | 1x10 <sup>-5</sup>    |  |
| Load range | 1 nF up to 10 µF      |  |

## Options

- Transport Boxes