

HIPOT

HIGH POTENTIAL SOURCE

Standards
IEC 60060-1 and NBR 6936



HIPOT

Description

HVEX's high-voltage sources (HIPOTs) are designed for high-voltage testing applications of electrical equipment. For this purpose, HVEX sources are applicable to typical high-voltage tests such as nominal withstand voltage at industrial frequency (Applied Voltage), breakdown voltage, radio interference voltage, or partial discharges, according to IEC 60060-1 and NBR 6936.

Applications:

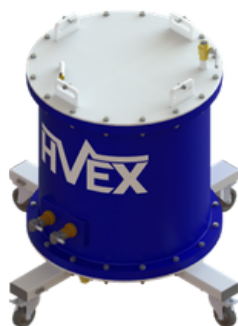
- Transformers;
- Insulators;
- Surge arresters;
- Cables;
- Splices;
- Connectors;
- Spacers;
- PPE (Personal Protective Equipment);
- PPC (Process and Production Controls),
- Among other products.

The HVEX solution allows configuring cycles of dielectric application or breakdown through user-friendly software compatible with Windows interface. Results are presented in the form of exportable graphs, and the HVEX HIPOT is the only equipment with programmable frequency ramps, offering high automation and safety.

Operation

The Hipot tester is an essential component in testing the withstand capability of parts and equipment that will be integrated into the electrical system. It consists of a high-voltage source (step-up transformer) and a set of dividers that control when and how much voltage the test object will be subjected to.

The withstand capability is evaluated by the integrity of the object after the test. If there is any visible or measurable degradation, if the insulation characteristics are altered, or if there are signs of electrical tracking or erosion, it indicates that the object did not withstand the exposure to the specified voltage for the required duration.



Technical Specifications

Standards	IEC 60060-1 and NBR 6936
Power supply	220 VAC or 380 VAC, 60 Hz
Output voltage	0 to 1200kV (AC) or 0 to 1200 kV (DC) for factory acceptance tests. For higher voltage levels, contact technical staff.
Output frequency	50 Hz to 300 Hz
Power	5 to 500 kVA or resonant up to 15 MVA
Output harmonic distortion (THD)	< 5%
Measurement uncertainty	< 1%
Voltage divider uncertainty	< 1% or < 0,2%
Frequency and directional power protection	81U, 81O, 32
Phase and ground overcurrent protection	50, 51, 51GS
Voltage and phase-loss protection	27, 59, 47
Operating Temperature	0 °C to 75 °C
Operation	Continuous
Voltage rise time	Adjustable of 1kV/s, 2 kV/s or customer's choice.

We provide solutions for improvement of electrical energy generation, transmission and distribution efficiency, quality and reliability. With a highly specialized and experienced team in research, development and innovation, HVEX develops tailor-made solutions for Brazilian and foreign markets. Wide range of products with solutions focused on signal transduction, measurement, monitoring and protection.



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