



# HP 60KV

Smart DC hipot up to 60 kV

## Features

- Output voltage up to 60 kV DC
- Leakage current up to 6 mA
- Can be fully remote controlled from an Android™ device
- Lightweight, portable and robust, designed for field use
- Measures output voltage, leakage current
- "Pass / Fail" LED indicator
- Adjustable parameters: voltage, maximum leakage current, ramp and test duration
- Ripple <2%
- Built-in memory
- IP54 protection

Illustrative Photo. Smartphone not included.

## Description

Tentech's HP60KV smart DC hipot is a cutting-edge dielectric test instrument designed with an emphasis on operator safety, versatility and ease of use. Complying with the most rigorous safety requirements, the system is divided into two modules, a control unit and a high voltage generation unit.

Additional safety features include an emergency stop switch and a built-in sound alarm. Furthermore, the ability to fully remote control the instrument from an Android device — both to program the settings as well as to perform the tests — provides increased safety protection and greater comfort for the operator.

HP60KV's built-in microprocessor allows the user to adjust the output voltage, test duration, maximum leakage current and ramp slope, allowing for more complex tests to be carried out automatically.



### Remote Control App

This instrument has Bluetooth® interface and can be controlled remotely via an Android™ smartphone / tablet running the Remote Control App.



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## Technical specifications

**TEST VOLTAGE**

Up to 60,000 V.

**TEST VOLTAGE RESOLUTION**

100 V between 10 kV and 60 kV  
10 V up to 9.99 kV.

**TEST VOLTAGE ACCURACY**

± (2% of nominal value ± 2 digits) with 1 mA load.

**POLARITY**

Negative voltage, ground positive.

**LEAKAGE CURRENT**

Max. 6 mA.

**LEAKAGE CURRENT RESOLUTION**

0 mA to 0.99 mA = 1 µA.  
1 mA to 6 mA = 0.1 mA.

**LEAKAGE CURRENT ACCURACY**

± (2% of nominal value ± 2 digits).

**MEASUREMENT OF INSULATION RESISTANCE**

From 500 kΩ to 32 GΩ.

**ACCURACY OF INSULATION RESISTANCE MEASUREMENT**

± 5% of the measured value.

**DISPLAY**

Alphanumeric.

**RIPPLE**

<2%.

**SAFETY FEATURES**

Remote control via Bluetooth.  
Emergency stop buttons.  
Self-detection of sparks.  
Visual indicators (LEDs).  
Sound indicator.

**PC INTERFACE**

USB.

**ADVANCED FEATURES**

Ramp test.  
Pass-Fail and fixed-time tests.  
Internal memory.

**BUILT-IN CHRONOMETER**

Indicates the time elapsed from the beginning of the measurement in mm: ss format, until 30:00.

**SOFTWARE**

It allows to transfer the data stored in the equipment memory to a PC, to analyze them, to present the results in tables and graphs, to generate reports of the tests.

**ENVIRONMENTAL PROTECTION**

IP54 (with closed lid).

**SAFETY**

In accordance with IEC 61010-1.

**POWER SUPPLY**

Mains: 200-240 V, 50/60 Hz, 450 VA.

**OPERATING TEMPERATURE**

23 °F to 122 °F (-5 °C to 50 °C).

**STORAGE TEMPERATURE**

-13 °F to 158 °F (-25 °C to 70 °C).

**HUMIDITY RANGE**

95% HR (non condensing).

**EQUIPMENT WEIGHT**

Control module: approx. 15.43 lb (7 kg).  
High voltage module: approx. 15.65 lb (7.1 kg).

**DIMENSIONS**

Control module: 17.5" x 14.2" x 7.5" (450 x 360 x 190 mm).  
High voltage module: 17.5" x 14.2" x 7.5" (450 x 360 x 190 mm).

## Included accessories

1 Interconnection cable\* (controller ↔ module).  
1 High voltage cable\*.  
1 Return cable HV\*.  
1 Protective grounding cable\*.  
1 Power cable.  
1 USB cable.  
1 Carry case.  
1 Operation Manual.  
1 Software.

\* Supplied with different lengths on request.