

## HVD HIGH VOLTAGE DIVIDER

- ) MODULAR DESIGN
- ) GUARDED STRUCTURE
- ) HIGH STABILITY, HIGH ACCURACY
- ) IMPROVED RUGGEDNESS FOR TRANSPORT

Ohm-Labs' model HVD High Voltage Divider is a modified version of the HVS High Voltage Standard.

As with the HVS, the HVD uses precision matched resistors for high accuracy; it is a modified Park divider structure.

The low resistance section provides two dc and two ac ratios, with 1 V and 10 V outputs.

An innovative guard structure reduces leakage errors by shielding each resistor at its nominal voltage. The HVD guard structure has a nominal resistance ten times the main resistance.

The guard structure forms a secondary divider with a separate output to monitor voltage during tests.

Larger and more secure ground connections reduce resistance to ground.

The high voltage resistors are enclosed in an acrylic tube, protecting them from dust and contamination. A low voltage fan exhausts heat out the top of the divider.

The HVD-50 divider includes one 500 megohm stack rated up to 50 kV, one low resistance ratio standard and a top toroid.

The HVD-100 adds a second 500 megohm stack and an intermediate toroid. Adder units are easily stacked to increase the voltage range.

All HVD dividers include rugged transit cases for shipment.

ISO17025 accredited calibration is included up to 150 kV dc and up to 100 kV rms ac, at either 50 or 60 Hz.



*HVD-100 Divider*

### Condensed Specifications

Model	DC	AC 50/60 Hz
HVD-50	50 kV	50 kV
HVD-100	100 kV	100 kV
Outputs	1 & 10 V dc	1 & 10 V ac
Accuracy	<60 ppm	<0.03 %
Linearity	<50 ppm	<0.025 %

**Environmental:**

Use: 23 +/-5 °C, 10-70 %RH

Storage: 0-50°C, 5-95 %RH

**Physical:**

HVD-50: 60x60x46 cm (24x24x18 in), 14 kg (30 lbs)

HVD-100: 60x60x35 cm (24x24x34 in), 22 kg (48 lbs)



ISO17025 accredited calibration included.

