

HVA PRECISION HIGH VOLTAGE DIVIDER

- STABILITY < 0.005 % / YEAR
- DC RATIO ACCURACY < 0.01 %
- 50/ 60 HZ RATIO ACCURACY <0.1 %
- LOW TEMPERATURE COEFFICIENT



The HVA ac/dc Voltage Divider is designed as a calibration standard for dc and ac voltages. The HVA is highly immune from changes in temperature and humidity. Its unique toroidal shielding renders proximity effects negligible. No appreciable capacitance is produced by the shield structure, and the unit is estimated to be at least 99.9 % resistive.

The resistors forming the core of the HVA are individually wound and characterized to assure the highest quality. Careful selection and processing of these resistors yields a ratio temperature coefficient of less than five ppm per degree C (<0.000 5 %).

The dc output impedance of the HVA is 1000 ohms (3K for HVA-150); the ac output is matched for a one megohm (input impedance) thermal converter or other ac meter.

All models are rated to full, continuous dc voltage and peak-to-peak ac voltage (0.7 times dc rating).

For dc only use, a dual output of 10 V & 1 V can be supplied as an alternative to the 1 V dc & 1 V ac outputs. Extended ranges (above 150 kV) can be obtained by stacking two or more HVA dividers.

Every HVA is provided with ISO 17025 accredited, traceable calibration at both dc and 60 Hz.

A specially fitted shipping container is available, and is recommended for customers who will be regularly transporting their standard to other labs for recertification or use.

MODEL	MAX DC	MAX AC
HVA-50	50 kV	35 kV
HVA-100	100	70
HVA-150	150	100

Physical: HVA-50 & 100:
24"x24"x28" (61x61x71cm) 45# (22 kG)
HVA-150: 24"x24"x32" (61x61x81cm) 50# (25 kG)

For special values, use the below format:

Model	Input	Output 1	Output 2
HVA-(A)-(B)-(C)	(A)	(B)	(C)

To order the Transit Container, please specify:

HVA-CASE

