Why can I measure an impedance between DC power and chassis ground?

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All devices which do not have a galvanically insulated internal power supply have a built-in impedance to discharge capacities.
Depending on the device type the impedance might be 3 MOhm, 5.3 MOhm, 10 MOhm, 20 MOhm, 40 MOhm. These values might vary slightly due to tolerances of the resistors.