SPD wiring suggestions

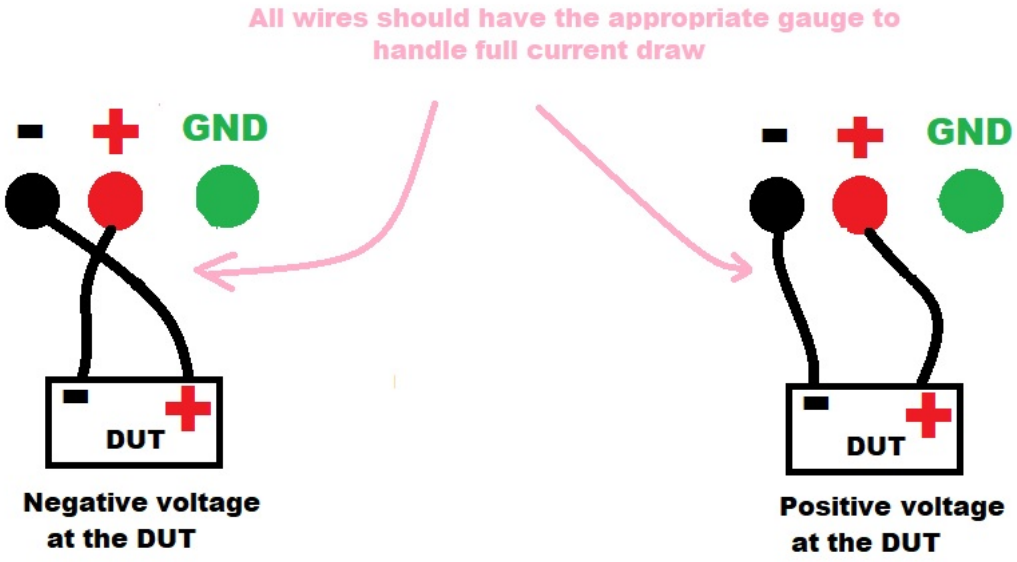
March 07, 2019

The SIGLENT SPD series of power supplies have only positive voltage and current setpoint values. That is, you can select voltages or currents that are from 0 to the max value (0-32 V, for voltage.. as an example for the SDP3000X/X-E).

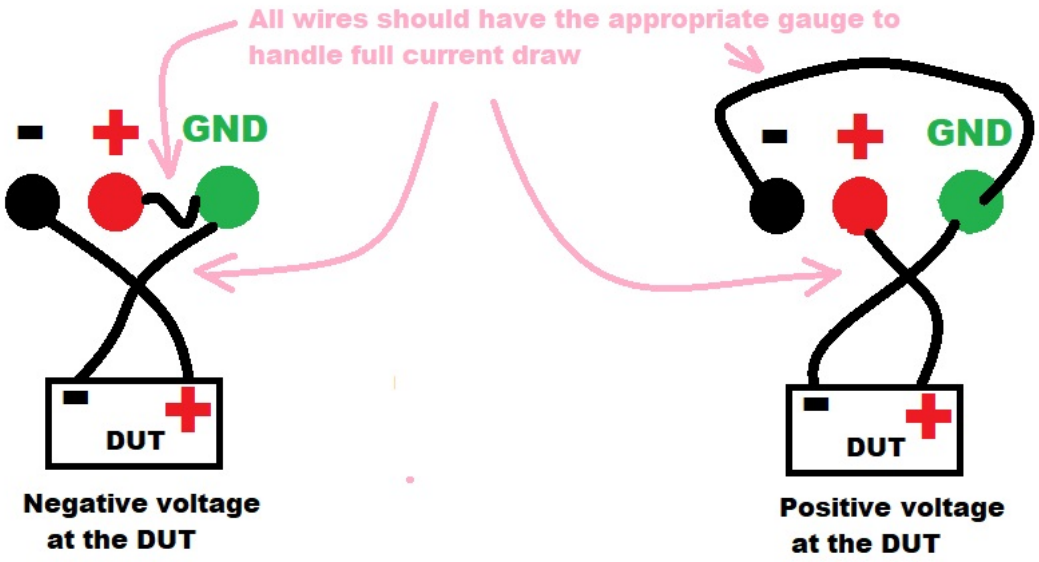
Here are the suggested wiring configurations to achieve both positive and negative potentials at the device-under-test (DUT):

NOTE: It is critical to select wire that can handle the full current and voltage of the supply. You can find numerous wire gauge recommendations, but here is one from Engineering Toolbox: https://www.engineeringtoolbox.com/wire-gauges-d_419.html

Floating Wiring Configuration:



Grounded Wiring Configuration:


All wires should have the appropriate gauge to handle full current draw
GND
DUT
Negative voltage at the DUT
GND
DUT
Positive voltage at the DUT

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