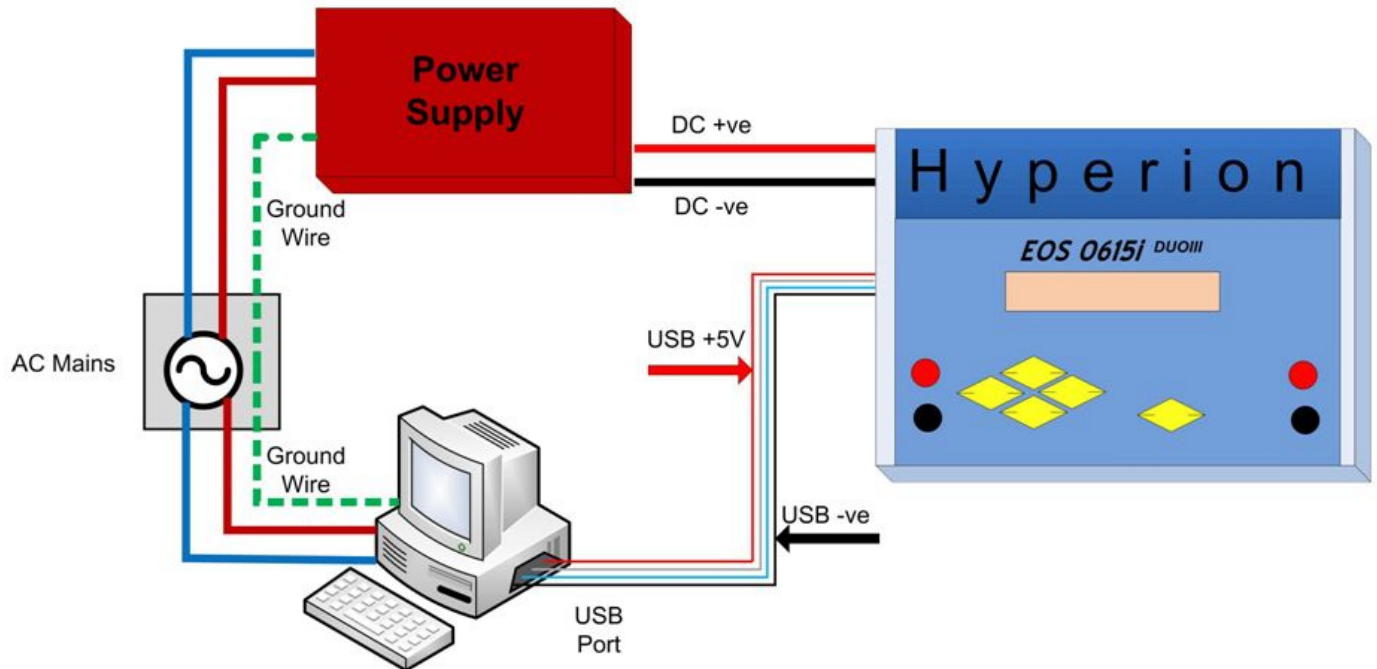


Why you should connect the +ve supply lead last.

When you connect a DC Powered unit to your computer, it's important to know that a circuit may exist for current flow even if the -ve is disconnected between the power supply and the charger. This can happen if the AC power has a ground connection to the computer and the charger power supply. If the -ve outlet of the power supply is grounded, current can "sneak in" backwards via the Computer and USB connection. In the first schematic below, the current flows from the power supply to the charger through the red +ve wire and back through the black -ve one as expected. In the second diagram, the charger could be running even if the -ve is cut between the power supply and chargers, because it can take a back route via the ground wire of the AC outlet -> Computer -> USB -> Charger as shown by the path in purple. There is a possibility that a high, charger level, current could flow through the USB circuitry which was never designed for that.



Always connect the NEGATIVE side of the charger first!

Otherwise if the various power and USB -ve wires are connected to ground internally, the inrush of current can go the wrong way (through the computer), and can possibly burn your USB controller on the Computer.

