Is there a current when the positive pole of the battery is grounded

What happens if you add a ground to a battery?
Bingo,that's it. In the circuit below,no current flows out of the plus side of the battery unless an equal current flows into the minus side. At the grounding point d,the current c-d exactly matches the current d-a. In other words,add the ground,or remove the ground and nothing changes.

Why is there no current when a wire is connected to ground?
If,say,you connect only the negative electrode to ground,there is no current because there is no electricity coming in on the positive electrode that can be pumped out. Technically,current may or may not flow when a wire is connected that way.

Does connecting a battery to the ground change the process?
If you connect only the high potential side of the battery to the ground,it will not noticeably change the process. Unless you have a circuit,current does not flow. There will be some minor current which goes through the air to complete the circuit,but that will be very minor indeed compared to self discharge. You won't notice the effect.

Does a positive terminal have to be positive against ground?
The positive terminal doesn'thave to be positive against ground necessarily because the physical Earth is not a reference point for the battery,only it's negative terminal is. That being said there is one additional factor ,namely capacitance,every object has capacitance.

Does a battery have a negative charge?
A battery does have a negative charge(surplus of electrons) on the negative terminal just as you'd expect,and the positive pole of a battery is positively charged (needs electrons to be in equilibrium). Convention has it that the flow of electricity is from positive to negative but that's not what actually happens.

Will a battery die if connected to the ground?
First off,every battery will die eventually,due to self-discharge. So eventually the answer to every one of these is "yes" for that reason. If you connect only the high potential side of the battery to the ground,it will not noticeably change the process. Unless you have a circuit,current does not flow.

He also stated that the neutral conductor is grounded somewhere down the line from the utility so current through a neutral is still making it to ground somewhere. ... you need a complete circuit, a complete path. That means from the positive pole of the battery, through the wire to one side of the light bulb, through the light bulb, through ...

Would a single pole breaker be a more appropriate choice on a grounded DC system? ... what the manual is

stating is the ground must not be broken from equipment to ground meaning no breakers installed there. But dc negative and positive can be disconnected with a double pole and so can live and neutral be disconnected with a double pole ...

Case 2: When one pole is grounded through GFDI. 1) Positive to Ground = 700V. For this case GFDI in inverter will check & trip the inverter if fault is there. The fault current will flow through GFDI.

If we ground the positive battery terminal, then even when the earth is wet, the earth is at a positive voltage just like the positive (tip wire or green insulation) wire. Therefore, there is little or no voltage difference between that + wire and the + voltage earth, and there is much less leakage current and much less "de-plating" of the wire.

The easiest way to think of it is this: Current will only ever flow in a loop, even in very complex circuits you can always break it down into loops of current, if there is no path for current to return to its source, there will be no current flow. In your battery example, there is no return current path so no current will flow. There is ...

Cars, and portable electronics tend to use Direct Current - This uses a positive, and a negative, and no earth. ... but not grounded. There is a capacitive connection you can read about, but it is beyond the answer to the original question This grounded term is universally used, but is technically incorrect. ... The positive pole is the pole ...

Without a circuit there is no current and you can"t get shock. It"s wrong to say that the potential of the positive terminal of a car battery is 12V without saying relative to what. It"s only 12V relative to the negative terminal. Relative to the ground the battery could have any voltage you like.

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A short circuit can occur if the positive terminal of the battery comes in contact with a grounded metal part of the car. By disconnecting the negative terminal first, you ...

The current would flow from the positive terminal to ground. Would the battery still work, ie. would the chemical reaction still take place, since there is nothing connected to ...

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