Reversible battery has no current flowing through it

Can a battery be reversible?
Sometimes,the chemical reaction is reversible; one could use a different battery to apply a negative voltage to the carbon electrode to reverse the reaction and plate the zinc back onto the zinc electrode,thus "recharging the battery" (and converting electric energy back into stored chemical potential energy).

Why does no current flow in a battery?
In your battery example,there is no return current pathso no current will flow. There is obviously a more deep physics reason for why this works but as the question asked for a simple answer I'll skip the math,google Maxwell's Equations and how they are used in the derivation of Kirchhoff's voltage law.

Can a current flow in a battery?
Maybe something like "Current flow in batteries?" Actually a current will flowif you connect a conductor to any voltage,through simple electrostatics.

Are secondary batteries reversible?
We know that a secondary battery (also known as an accumulator) is a device that converts the chemical energy into electrical energy and stores in it for later usage. The chemical reactions in secondary cells are reversiblein case of proper battery polarity connection instead of reverse polarity.

Why is there no current flowing across a 2V battery?
So why is no current flowing across the 2 V battery. It can be said that the battery and the 100 ohm resistor are in parallel(Equal potential drops). How is the battery different from the 100 ohm resistor ? It might be useful to think of some limiting cases to get some intuition.

What happens if a battery is installed backwards?
In Figure 1,the diode becomes forward biased and the load's normal operating current flows through the diode. When the battery is installed backwards,the diode reverse-biases and no current flows. This approach is used for any battery type,from single-cell alkaline to multiple Li-Ion,but it has two major disadvantages.

With no load connected, all the available current flows through the Zener. This situation must be factored in as the worst-case scenario. Added to this, there is a minimum current value through the diode in order for it to maintain regulation. ...

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1) Yes, that"s what charging a battery looks like: pushing current back through it by connecting it to a larger

voltage. What happens depends on the chemistry and size of the ...

Current is only present when there is a path for it. That path can be to a grounding point or a grounded point. For example, there"s no current in a lighting circuit until a ...

Despite the lack of voltage output, there is still a current flowing through the circuit. This is due to the small amount of resistance in the shorting wire and the overall ...

While we do not know the value of the internal resistance, we are told that the potential difference across the terminals of the real battery is (6text{V}) when no current ...

At this point, no current flows--that is, no significant movement of electrons through the wire occurs because the circuit is open. The circuit is closed using a salt bridge, ...

The current flowing to the battery through the charger may burn out the electronic components inside the charger (if there is no reverse protection is provided by the manufacturer). In short, ...

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 ...

As the other answer says, from a purely theoretical point of view, there"s nothing wrong with current flowing either way through a voltage source. That"s exactly what an ideal voltage source is: ... when charging a ...

The displacement current flows from one plate to the other, through the dielectric whenever current flows into or out of the capacitor plates and has the exact same ...

Secondly All things tend to prevent the flow of electrons from a sink to a source. For instance let"s say you have a battery. There is no current flowing from its positive to its ...

The battery is like a pump. It literally forces water from one side to the other, and allows no water to flow the opposite way. A battery is a fairly complex electrochemical ...

When the switch is open, no current is flowing at all (we assume the voltmeter is ideal, so it has infinite resistance and no current will flow through it), so there is no voltage ...

Le"s assume the load resistance is 4.5ohm and battery voltage is 9v, so current flow through the loop is 2 for the same load resistance(not be changed in any variation of ...

If you have an electric circuit with a 12V battery in series with an open switch and a resistor, the voltage drop across the open switch is 12V. But this doesn"t quite make ...

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