The reason why livestock batteries have voltage but no current

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.

Does a battery have a voltage difference?
However,current more than likely won't (depending upon the age/use of the battery). The reason why is because the voltage potential difference - the "excess holes on the positive end" and the "excess electrons on the negative end" - is relative to a given battery.

Why do batteries have a low amperage?
It's the opposition within the battery to the flow of current. As batteries age or undergo multiple charge-discharge cycles,their internal resistance increases. This increase can lead to a situation where,despite showing adequate voltage,the battery can't deliver enough current,resulting in no effective amperage.

What happens if a battery is not connected to anything?
If the battery is not connected to anything,the chemical force is pulling on the ions,trying to draw them across the electrolyte to complete the reaction,but this is balanced by the electrostatic force-- the voltage between the electrodes.

What determines the maximum current a battery can supply?
It only determines how long the battery can supply a current for (that is,how much energy is can output over a period of time). The max current is determined by it's internal resistance. Many 4.2V lipo batteries can supply much more current than 9V batteries since they tend have lower internal resistances.

Why is there a difference between a positive and negative battery?
The reason why is because the voltage potential difference- the "excess holes on the positive end" and the "excess electrons on the negative end" - is relative to a given battery. There are excess electrons/holes on the ends of a given battery with respect to each other.

In a series connection, batteries are connected one after the other, creating a chain-like structure. This connects the positive terminal of one battery to the negative terminal of the next, resulting in a cumulative increase in voltage. However, the current remains constant throughout the series connection. Effects of Series Connections on Voltage

Yes, a battery can have voltage but no current. This happens in an open circuit. Here, the battery shows voltage, but no load is connected to draw current. Voltage measures the potential difference, while current

indicates the flow of electric charge. Thus, a voltage source can exist without current under these conditions.

This two-part series explores the main types used in agriculture, explains why they fail and goes on to assess two bits of technology which, respectively, diagnose battery condition and attempt...

1. Disconnected 2 of the panels and only connected 1 to the MPPT controller. Voltage dropped to 35v but still no current. Also plugged the single directly into the wires to the MPPT (bypassing the parallel connectors). Same behavior - voltage, no current. I know the cables to the MPPT work from the other 3S array, and those are plugged directly ...

A lead-acid battery can have voltage but no current due to several reasons related to its internal condition or external connections. Here are some common causes. Sulfation: Explanation: Sulfation occurs when lead sulfate crystals build up on the battery plates, particularly if the battery has been left discharged for a long time.

But what happens when you have voltage but no amps? Well, let"s find out! Can you have volts but no amps? The battery has two very important characteristics: voltage and amps. The volts tell you how much potential energy the battery contains, and the amps tell you how fast it can be drained. So it is impossible that a battery has voltage but no amps. A 12-volt car battery, for ...

Why Do I Have Voltage But No Amps? Having voltage but no current in a solar panel is frequently caused by an open circuit. It may also be caused by errors elsewhere in the system such as the charge controller or ...

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Now, you can"t have currents without voltages because if there"s a current there"s a charge moving, and every charge produces a voltage, but you can have currents without voltage differences in space. For example, if you have a charged sphere, and you make it rotate, the charge will be on the surface and by rotating the sphere you will have a current on the surface, ...

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Rarely, anyone doesn"t know about solar panels. It has become trendy as an electricity-supplier electronic device. Being a reliable source of electricity, there"s a high demand for them in the market. But unfortunately,

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many users face difficulty while setting up solar panels at their place because the solar panels have voltage but no amps (current). ...

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 voltage being determined by the source EMF of the battery or power supply.

Let"s say you have one small voltage and one big voltage. Current will flow from Big Voltage to Small Voltage. Now the current flows properly in a good circuit. Here comes the open circuit. Where your circuit is not properly configured and is incomplete. Here our current has no way to flow properly and you have zero amps despite having voltage.

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