Battery light current when external load is connected

Can a battery have voltage but no current?

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.

What happens if a battery has no load?

No Load: If no electrical device is connected,the current remains at zero. A battery can still show voltage as long as it has not been drained or damaged. Open Circuit Voltage: Measuring voltage in a circuit with no load gives the open circuit voltage.

Does a battery give a load if it's a current source?

Well... yes and no. The battery will try and give the load whatever it asks for not the other way round. This is true for any voltage source not just batteries (current sources will try and push a set current through a circuit but voltage sources will just sit there and do as they're told).

What is the current flow through a battery loop?

Le's assume the load resistance is 4.5ohm and battery voltage is 9v,so current flow through the loop is 2for the same load resistance (not be changed in any variation of voltage and current),if the battery voltage is 18v the current flow through the loop becomes 18v/4.5ohm=4amp. if I am wrong please give me feed back.

Why is a battery a constant voltage source?

A battery is a constant voltage source,and that´s what it´s going to do: provide a constant voltage to the circuit,regardless of current. your battery never determine the amount of current throw to the load,rather the load resistance and operating voltage of the load determine the amount of current.

Why does a battery have no current?

No Current Flow: A battery may have voltage but not deliver current due to internal resistance or damage. High resistance can prevent current from flowing even if a voltage exists. No Load: If no electrical device is connected,the current remains at zero. A battery can still show voltage as long as it has not been drained or damaged.

Connected Load Average Load and Maximum Demand Load - Connected LoadThe connected load is defined as the sum of continuous ratings of all the equipment connected to the electrical power station.An electric power station supplies the power to thousands of consumers. Each consumer has certain equipment in his premises. The sum of ...

A battery has e.m.f. 4 V and internal resistance r . When this battery is connected to an external resistance of 2

ohms, a current of 1 amp . flows in the circuit. How much current will flow if the terminals of the battery are connected directly

Output current flows to the lowest resistive load which is ISYS, with charge current naturally reducing. If there is a constant load on SYS, the output voltage starts to drop ...

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The car battery light is one of the most important indicators in your vehicle, acting as a crucial signal that something could be wrong with your car"s charging system. This warning could be telling you that your battery is damaged or ...

$begingroup$ As others note "can" and "will" usually differ. Imagine each battery had a chemical to electrical conversion capability such that it COULD deliver up to 0.5A. If ...

Hello everyone and happy new year. I have come across with the problem below. I have a SmartSolar MPPT 150/70-Tr VE.Can and 3000W of solar connected on the Charge ...

The discharge test can be conducted even in a case a battery remains connected to the load - by measuring the load current during the process. The BLU200A device provides the discharge current of up to 200 A and may be applied to ...

The part of the circuit where charge is moving outside the battery pack through the wires and the light bulb is the external circuit. The part of the circuit where charge is moving outside the battery pack through the wires and the light bulb is the external circuit. Basics; Physics ... When an external circuit is connected across the cell ...

Voltage is the energy per unit charge. Thus a motorcycle battery and a car battery can both have the same voltage (more precisely, the same potential difference between battery terminals), yet one stores much more energy than the other. ...

If the integrated measuring unit of the Sunny Home Manager is connected directly, it can measure a maximum current of 63 A per phase. Current transformers must be used to measure currents > 63 A per phase (> Connecting the Voltage Supply greater than 63 A). Procedure: For the request External current transformer: click on Yes.

Web: https://vielec-electricite.fr