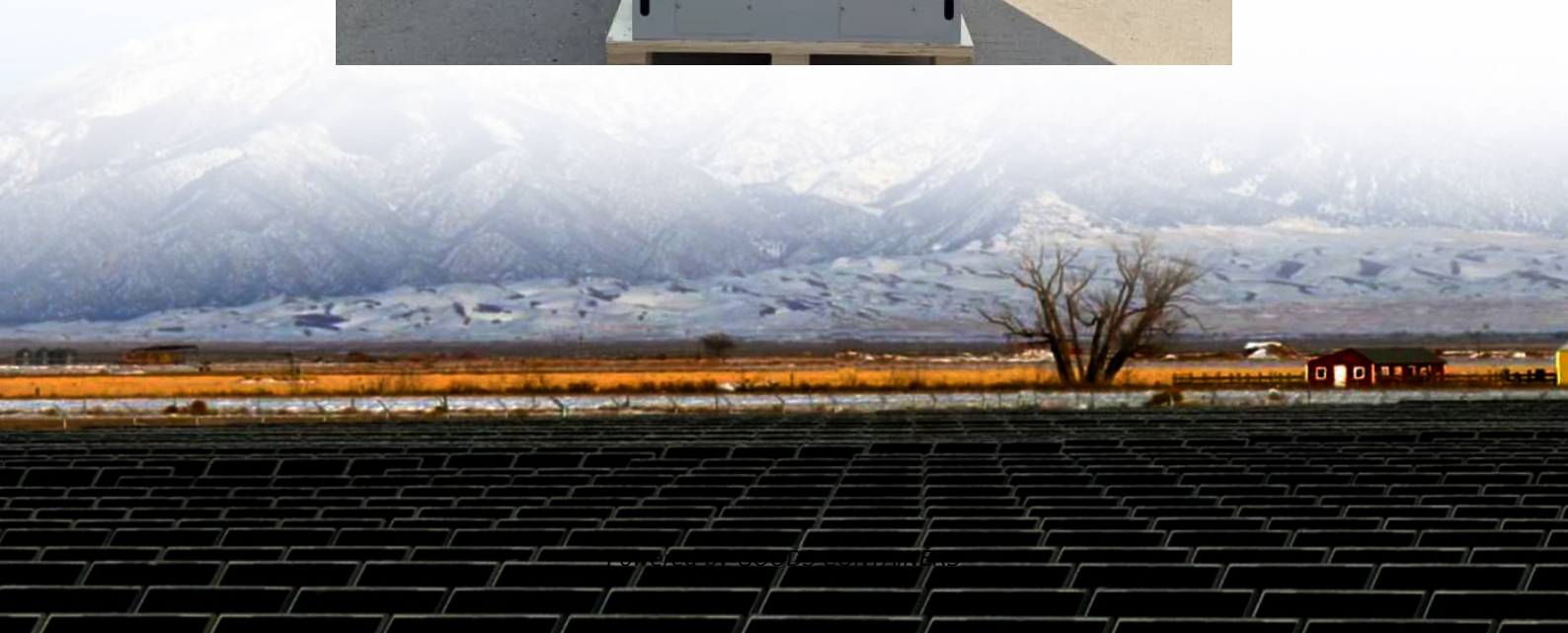


How to tell the current flow in the battery cabinet





Overview

How does a battery monitor work?

The battery monitor continuously measures the current flow in and out of the battery. Integration of this current over time, if it was a fixed current, boils down to multiplying current and time and gives the net amount of Ah added or removed. For example, a discharge current of 10A for 2 hours will take $10 \times 2 = 20\text{Ah}$ from the battery.

Can a battery determine the amount of current flowing in a circuit?

Remember a battery is a chemical device, and it is the chemical reaction within the battery that is important to know about regarding whatever circuit the battery is going to power. YES a battery could determine the amount of current flowing in the circuit.

How does a battery determine the amount of current thrown?

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. For two or more load resistance ($V_s = V_{r1} + V_{r2} + V_{r3} + \dots + V_{rn}$) and each voltage drop ($V_{r1} = IR_1$, $V_{r2} = IR_2$, . . . , $V_{rn} = IR_n$).

How does a battery meter work?

Figure 3-17: Meters connected to measure the current through the battery and the current through bulb D and the voltage of the battery when the switch is opened and closed. (a) Collect data while closing and opening the switch as before. Measure the currents through the battery and through bulb D.



How to tell the current flow in the battery cabinet



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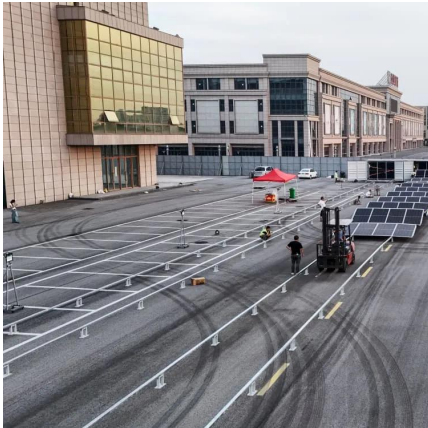
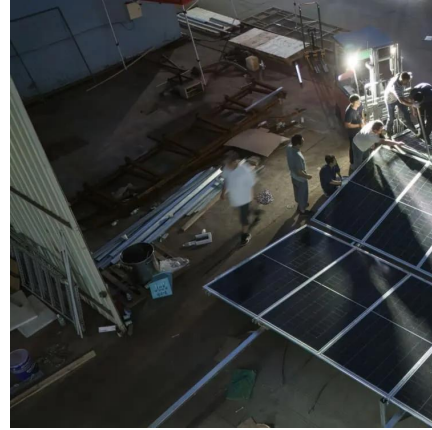
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