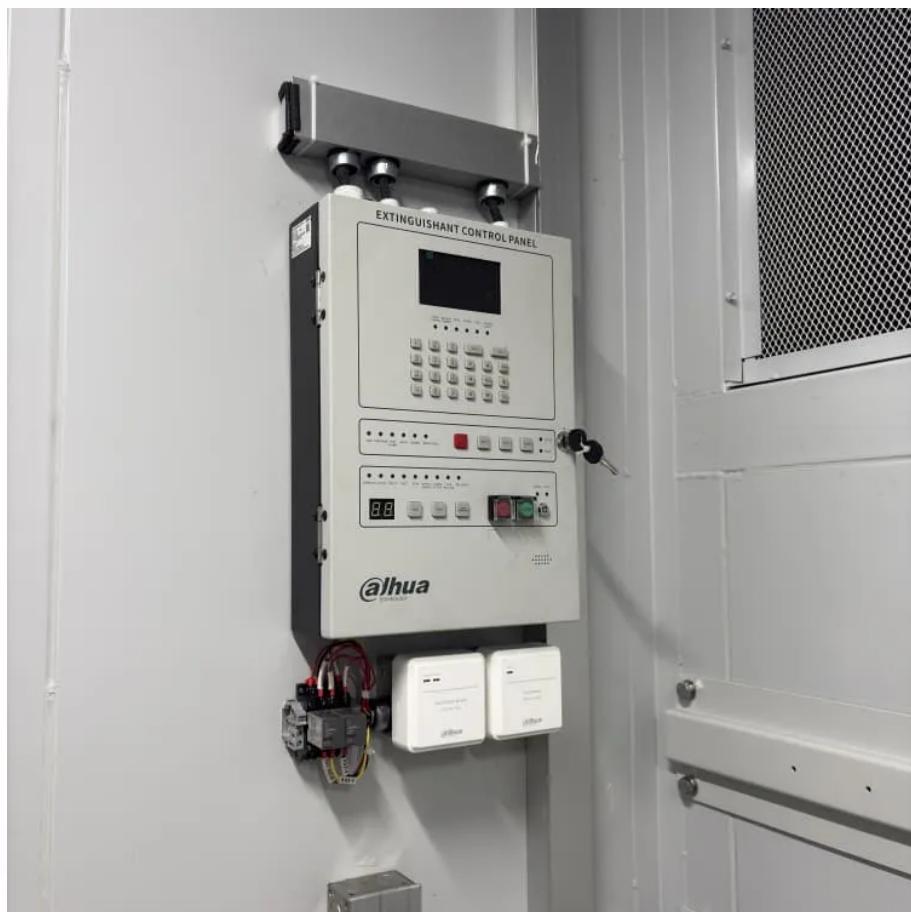




FTMRS SOLAR

Battery cabinet internal current





Overview

What does internal resistance mean in a battery?

Internal resistance can be thought of as a measure of the “quality” of a battery cell. A low internal resistance indicates that the battery cell is able to deliver a large current with minimal voltage drop, while a high internal resistance indicates that the battery cell is less able to deliver a large current and experiences a larger voltage drop.

What should a battery's internal resistance be?

Ideally, a battery's internal resistance should be zero, allowing for maximum current flow without any energy loss. In reality, however, as illustrated in Fig.1, internal resistance is always present. Let's consider an example to illustrate this. The battery voltage is determined by the internal resistance and the output current.

How does internal resistance affect a battery's current-carrying capacity?

When the battery's internal resistance, R_{DC} , is $1\ \Omega$, and the load, R , is $9\ \Omega$, the battery outputs a voltage of 9 V. However, if the internal resistance increases to $2\ \Omega$, the output voltage drops to approximately 8.2 V. In summary, internal resistance influences a battery's current-carrying capacity.

How to measure internal resistance of a battery?

One can mention the IEC 61960 standard or PNGV (Partnership for a New Generation of Vehicles) procedure for example. Measurement methods for the internal resistance of batteries can be divided up into two categories: DC (Direct Current) techniques and AC (Alternating Current) techniques.



Battery cabinet internal current

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batteries

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