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New Energy Battery Cabinet Resistance Test

Overview

What is the internal resistance of a battery?

Although batteries' internal resistance would ideally be zero, internal resistance exists due to a variety of factors. Internal resistance increases as a battery degrades. On battery cell production lines, defective cells are detected by comparing the internal resistance of tested cells to that of known-good reference cells.

How do you measure internal resistance of a battery?

Battery cells used in vehicles typically have an internal resistance less than 1 mΩ.) When measuring low resistance levels of 1 Ω or less, internal resistance is measured using the 4-terminal method. Resistance can be measured using either the 4-terminal method or the 2-terminal method.

What is internal resistance testing?

Internal resistance testing is carried out at each process after battery cells are filled with electrolyte and their assembly completed (charge/discharge testing, aging testing, shipping inspections, etc.). There are two methods for measuring internal resistance: the AC method (AC-IR) and the DC method (DC-IR).

How does internal resistance affect battery voltage?

Effect of internal resistance: According to the formula Terminal Voltage = Open Circuit Voltage − Current × Internal Resistance, when a high current (e.g., during acceleration or startup) flows, the internal resistance causes a voltage drop within the battery.

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Internal resistance tester method: Using a specific AC discharge testing method, the voltage and internal resistance at both ends of the battery can be accurately measured to determine the

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