



Overview

The battery aging cabinet is the core equipment of new energy battery production and testing, mainly used for the aging test of lithium batteries (such as power batteries, energy storage batteries, consumer lithium batteries), by simulating the actual use of batteries, screening out batteries with substandard performance to ensure the reliability of battery products, and its core working logic can be divided into 3 modules: Why is EV battery testing important?

With the continuous development of Evs (electric vehicles) and new energy, smart BESS (battery energy storage system) charging stations came into being, and the EV battery testing technology is particularly important.

How do major manufacturers predict battery remaining life?

For SOC, currently, the major manufacturers mainly apply the current integration method. For SOH, currently, the major manufacturers mainly apply the voltage curve fitting method. For battery remaining life prediction, currently, the major manufacturers mainly apply statistical patterns based on long-term data to estimate.

How to predict EV battery life?

As an extremely important part of the current and future testing of EV batteries, there are two general methods of life prediction: (1) Empirically based prediction: empirically based RUL (remaining useful life) prediction method, mainly including cycle number method and event-oriented aging accumulation method.

How to measure EV battery health?

As one of the important indicators of EV battery health, the current mainstream SOC estimation methods are as follows: (1) Discharge test method; (2) Current integration method; (3) Kalman filtering algorithm. Fig. 4. EV battery testing device .



New energy battery cabinet aging test

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