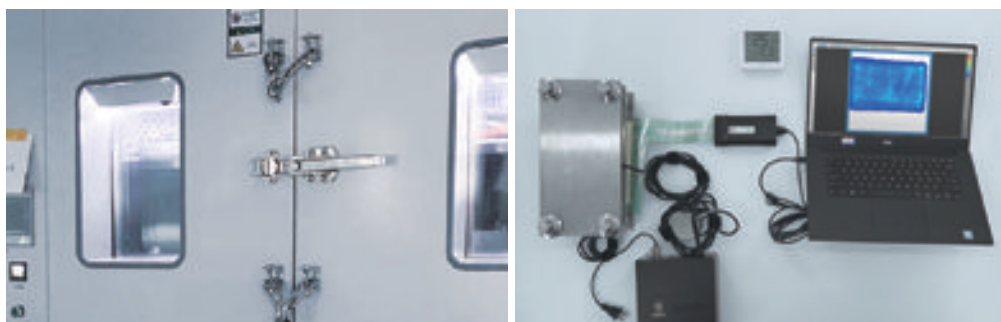


BATTERY MODULE CHARGE AND DISCHARGE PRESSURE DISTRIBUTION TEST SOLUTION

PROJECT INTRODUCTION

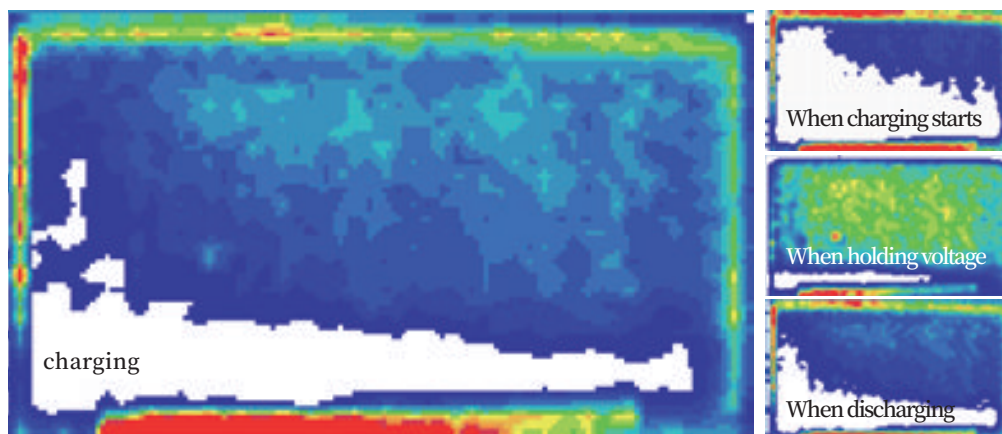
With the rapid development of the new energy vehicle market, the testing of the performance and safety of the battery core module as a core component is particularly important.



MEASUREMENT METHODS

Fix a single electric core in a three-piece steel tooling, add aerogel felt boards for heat insulation between the electric core and the steel plate, put the sensor close to the side wall of the tooling, and place the mounted tooling in a constant temperature box at 25 ° C. Through multiple charging and discharging cycles, we view the measured images and data to determine the pressure changes of the power battery during its entire life cycle, and thus judge the battery's health level.

MEASUREMENT RESULT



From the whole charging and discharging process, it is found that the film pressure measurement system can accurately find out where the problem of abnormal bulging of the battery cell lies, and detect the abnormal pressure area of the battery cell in the charging and discharging process, and through the test data, it can enable the R&D personnel to make further improvement for the problem of the battery cell to improve the safety of the battery.

USE

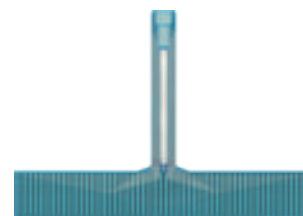
Product Design Verification
Factory Inspection

ADVANTAGES

Improvement of jigs and fixtures
Improve battery performance
Optimize battery management system

EQUIPMENT: D2

General Purpose
Distributed Pressure
Measurement System
DPM-G



MODEL	CN5608
Sensing area	564mm*82mm
No. of sensing points	1924, 37rows*52columns
Point density	3.8points/cm ²
Pressure ranges	500psi