

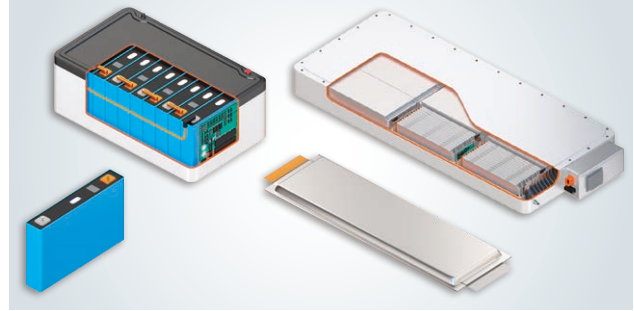
# Application Note

— Example Applications —

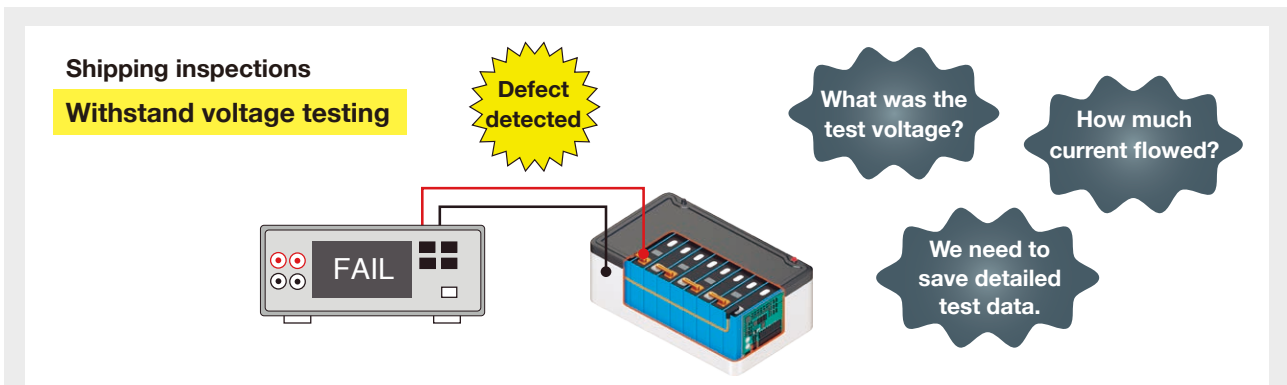
## Recording Detailed Test Data during Shipping Inspections

Improving shipping inspection quality

Issues including manufacturing defects and degradation over time in the batteries used in electric vehicles (EVs) can pose the risk of serious accidents (including fire). As a result, it's extremely important to manage battery safety and quality. Manufacturers are facing the need to improve the quality of testing in shipping inspections, for example by conducting standard-compliant testing and recording detailed test results.

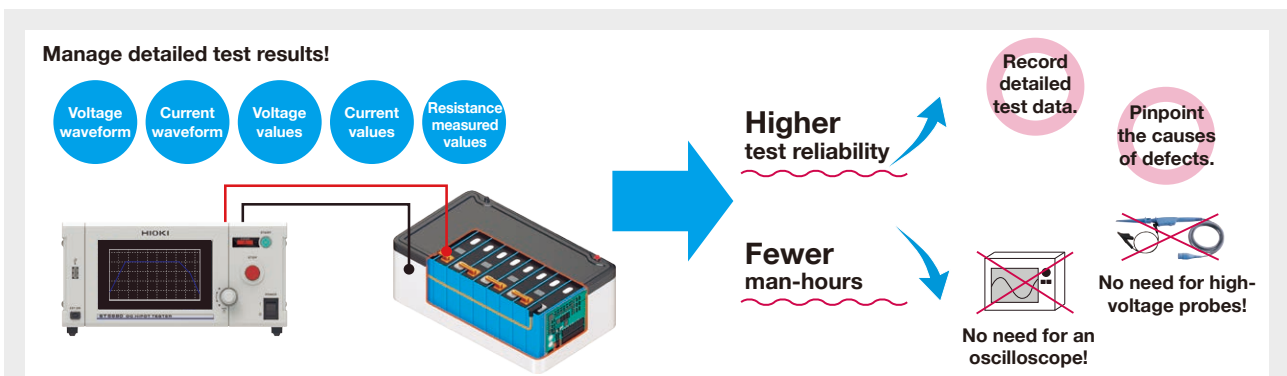


**Issue** We want to view and save detailed test results when defects are detected.



Shipping inspections are the final test before products are shipped, so they must be able to reliably detect defective products. When a defect is detected, it's necessary to assess detailed results and investigate the cause. Additionally, it's necessary to record test results and ensure traceability in order to improve test quality.

**Solution** The ST5680 can display and record test voltage and current as waveforms.



When you use the ST5680 to conduct tests, you can manage test results as waveform data. You can display and record test voltages when defects are detected and measured current values not only as numerical values, but also as waveforms, and that data can be used to analyze and pinpoint the causes of defects. By eliminating the need to check waveforms with an oscilloscope or high-voltage probes, this approach can also help save man-hours.

Instrument used

DC HIPOT TESTER ST5680

Hioki product

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All information correct as of Oct. 19, 2022. All specifications are subject to change without notice.