

BATTERY TESTING

DTB provides testing services to ensure the safety of Lithium Ion (Li-ion) batteries. While Li-ion batteries offer several advantages over conventional battery types, it's important to test and validate Li-ion batteries and Li-ion powered devices to assure risks are mitigated.

As the automotive, heavy equipment, aerospace, defense, and aviation markets shift to EV, testing services also must shift to meet government compliance criteria while addressing new technological shifts. DTB provides a wide range of Li-ion testing services in order to support the changing landscape.



COMPREHENSIVE TESTING

◆ Some of the product types, systems, and applications we test —

- Battery Packs
- Chargers
- Electric & Hybrid Vehicles
- Primary Battery Systems (Alkaline, Lithium)
- Service Disconnects
- Super Capacitors
- Wire Harnesses
- Uninterruptible Power Supplies

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Our battery testing services include lithium-ion battery safety, performance, fire and abuse, and UN transportation testing (UN/DOT 38.3).

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RELIABLE RESULTS

◆ Testing performed by experienced professionals —

- Abuse Testing
- Ampacity
- Application
- Chemical Composition
- Construction
- Continuity
- Continuous Charging
- Crush
- Dielectric Voltage Withstand
- Enclosure Integrity
- Fault Analysis
- Fire Exposure
- Hazardous Monitoring
- Heating
- HV Exposure
- Insulation Resistance
- Mold Stress-Relief Distortion
- Pack Construction
- Performance
- Puncture
- Rollover
- Separator Shutdown
- Thermal Stability

DTB IS THE LARGEST INDEPENDENT TEST LAB IN THE U.S.

We're There.

Engineering & Test Division
 (800) 837-8456
 test@dtb.com



www.dtb.com

TELL US ABOUT YOUR PROJECT



SUBMIT RFQ

BATTERY TESTING

Test your battery in real-world conditions...

Analyze response and performance in a wide range of **environmental simulations**

- Sand and Dust
- Salt Fog
- Immersion
- Temperature/Humidity
- Low Pressure (Altitude)
- Thermal Vacuum
- Fungus
- HALT/HASS



EMI/EMC Testing of a Battery as Installed in a System



Saltwater Testing

DTB tests to industry standards, including relevant MIL-STD specifications, IEEE/ANSI, EN, CISPR requirements, IEC 62133, UN/DOT 38.3, UL 2054, UL 2580, UL 1642, IEC 62660, ISO 12405, SAE J2380, SAE J2464, SAE J2929 for our diverse customer base.

TESTING SERVICES

Electromagnetic

- EMI/EMC
- ESD
- RF Emissions
- RF Immunity/Susceptibility
- Overcharge
- Export Electrical Transients
- Imported Electrical Transients
- Imbalanced Charging
- Charge/Discharge Cycling
- Forced Discharge
- Limited Power Source
- Steady Force
- Capacitance
- Short Circuit Test

Dynamics & Vibration

- Vibration *
- Shock/Drop
- Seismic

* Including T5500 with extreme capability!

Engineering Services

- Materials Analysis
- Failure Analysis
- Corrosion & Surface Evaluations

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