

Hybrid Vehicle Battery Testing

Purpose

- Simulate actual use and abuse conditions and potential failures

Expertise

- Serving the automotive and battery industries for over 25 years
- A2LA Accredited Laboratory

MGA Fabrication Center

- Develop customized test equipment
- Test fixture design and manufacturing

Protective Test Cells

- MGA designed and built specifically for safely conducting battery testing
- Ventilation system to expel hazardous gases and smoke from test cells
- Lexan panels for viewing tests

Testing Standards

- SAE, ASTM, ISO
- FreedomCAR (Cooperative Automotive Research)
- OEM and Supplier Specific Standards

Mechanical Abuse Tests

- Including:
 - Crush
 - Nail Penetration
 - Immersion
 - Impact
 - Shock
 - Drop
 - Acceleration
 - Connector Strength

Electrical Performance/Characteristics Tests

- Including:
 - Short Circuit
 - Overcharge
 - Forced Discharge
 - Functional Evaluation

Environmental/Durability Tests

- Including:
 - Hot/Cold Thermal Cycling
 - High Frequency Vibration
 - Thermal Shock
 - Salt Spray
 - Multi Axis Simulation Table (MAST)
 - Rain Simulation
 - Extreme Heat
 - Dust

