



Get to Market Faster With Comprehensive EV Testing

Allison's Vehicle Electrification + Environmental Test Center (VE+ET) offers a wide range of vehicle electrification testing services to help customers get to market faster. The VE+ET offers time and money saving testing capabilities by simulating battery and environmental conditions all under one roof. No longer are costly road trips to the mountains or desert required to test regionally specific conditions, all at the mercy of mother nature. The VE+ET can consistently replicate a wide range of situations reducing overall product development time and budget requirements.

EV Testing Capabilities Include:

- 1. Constant DC Power Supply** - provides longer testing periods without the need to stop and recharge, leading to getting more done in a shorter timeframe
 - Battery emulation
 - Direct energy connection
 - Controlled State of Charge (SOC)
- 2. Fast Charging** - enables more tests per day and more data to evolve products for production
 - High-speed 150kW charger
 - Combined Charging System (CCS1) & CHAdeMO (liquid cooled)
 - Multiple charging systems
- 3. Environmental Control** - removes the uncertainty of mother nature through controlled, repeatable testing conditions
 - Wide range of sustained conditions (temperature range of -54 to +125 °F)
 - Replicate all variables from temperature, humidity and more
 - Replicate altitudes of up to 18,000 ft.
- 4. Thermal Testing** - provides testing of specific situations in a controlled environment reducing risk and saving time
 - Radiant heaters/lights to generate additional heat when required
 - Lighting is used for radiant solar simulation for HVAC testing on or off dyne
- 5. Motoring Dynamometers** - eliminates the need to have road approved vehicles to complete testing reducing project investments
 - Two Heavy-duty AWD Dynamometers
 - Capable of vehicle load simulations of 4000 – 82,000 lbs.
 - Up to +/- 30 degree road grade
 - Regenerative brake testing for mechanical and electrical development

The VE+ET is secured, operated and managed independently from Allison Transmission, Inc., keeping customer IP, data and property secure and confidential.

For more information visit allisontransmission.com/veet



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