

MOBILE LITHIUM-ION TESTING CONTAINER TO MEET THE MOST DEMANDING CONDITIONS

We've engineered the most robust, self-contained, mobile testing system available. With variable chamber volumes & environmental conditions, take your battery testing to the next level with GEM 360.



INTEGRATED SAFETY MEASURES

Keeping personnel safe during testing procedures is a top priority. As such, we've integrated a number of features to ensure that the testing chambers offer protective measures - minimizing risk to both technicians and equipment.

- > Rotary Trapped Key Interlock Switches
- > Distributed Sensors For Localized Gas Detection
- > Smoke & Fire Detection Elements with Active Indication Lights
- > Actuated Damper & Exhaust Systems To Escape Harmful Gases



VARIABLE ENVIRONMENTAL CONDITIONS

Our 20' ISO container contains 4 testing chambers - two cold, and two hot. With individual environmental controls, each chamber can be programmed to operate at different temperatures, providing more dynamic testing scenarios.

- > Two (2) Refrigerated Chambers - Down to 35°F
- > Two (2) Heated Chambers - Up 40°F from Ambient
- > Four (4) Ramp/Soak Temperature & Process Controllers
- > Insulated Walls & Partitions For Improved Thermal Properties



NEXT GEN PLC LOGIC CONTROL SYSTEM

GEM'S PLC architecture delivers top of the line hardware for our battery test chambers. The system communicates with our safety systems, and possesses highly responsive local control to ensure data continuity and operational integrity.

- > Digatron Lithium-Ion Test Equipment
- > Robust Data Acquisition Framework
- > System Shutoff In The Event of Smoke/Fire or Off-Gassing
- > Power Safety Disconnect When Chamber Doors Opened

Battery testing equipment requires top-notch safety systems. GEM 360 can assist in meeting your needs and providing a robust platform for your testing operations.

Many areas across the globe are known to suffer disabling rolling black-outs due to the age and overstress of the existing transmission & distribution (T&D) infrastructure, extreme weather conditions, and many other critical failure factors.

To combat these T&D issues, more and more utilities, independent power producers, battery OEM's, and end-users of electrical energy are considering the implementation of battery energy storage system (or BESS) technology.

Therefore, as the battery market continues to grow, the ability to test the viability of chemistries, configurations and operating conditions become

critical to a successful integration.

GEM 360's unique testing container places top-notch testing equipment

in a mobile platform, allowing you to perform mission-critical testing when and where needed.

Here's a breakdown of the components contained within this 20' HC ISO container:

- Refrigeration: 4,000 BTU/h (x2)
- Heating: 17,100 BTU/hr (x2)
- Smoke Detection System
- Off-Gassing Sensors
- Active Chamber Lighting
- Temperature Controllers
- Actuated Dampers & Exhaust Fan System
- Key Interlock Switches
- Removable Partitions For Increased Testing Volume

When it comes to testing conditions, the ability to establish variable environmental and load conditions dramatically improves the data acquisition process. With more accurate data, battery design and efficiency improve.

Our goal at GEM 360 is to provide you with the most technically advanced and mobile testing platform on the market.

Get the GEM 360 Advantage Today!!!

Contact Us Today For A FREE Quote!

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