

ATPHEAVY PRISMATIC & ADAPTABLE

REDUCE TIME + MINIMIZE ERRORS + CENTRALIZE DATA + TEST MORE

ATPHEAVY

HIGH-AMPERAGE BATTERY TESTING

This innovation to the ATP system enables you to test high density cells up to 1000 Amps.



Pictured: 250 AMP LARGE POUCH

Pictured: 1000 AMP PRISMATIC

SPECS AT A GLANCE

ADAPTABLE

PRISMATIC

CELL HOLDER:	Pouch, Cylindrical	CELL HOLDER:	Prismatic
CONNECTION TYPE:	Universal Terminal	CONNECTION TYPE:	Bus Bar
MAXIMUM CURRENT:	100-250 Amps	MAXIMUM CURRENT:	1000 Amps
CABLE MANAGEMENT:	IGUS Track	CABLE MANAGEMENT:	High-Amperage Cables
MULTIPLE SAFETY OPTIONS AVAILABLE:	TUV US CA E	MULTIPLE SAFETY OPTIONS AVAILABLE:	TUV US CA E

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BATTERY TESTING SAFETY FEATURES

DON'T OPEN YOUR CHAMBER TO AN UNKNOWN EVENT



EMERGENCY STOP

Stop button to disable the chamber function rapidly.



GAS SENSORS

Sensors for monitoring chamber working volume for combustable gasses ***Optional Feature as single, double or triple**



SET POINT TEMP LIMIT

Temperature control set points to prevent the user from accidentally setting the chamber's temperature outside of the determined limits.



RAPID TEMP CHANGE

Safety features in place to monitor and detect a rapid temperature change.



REINFORCEMENT

Reinforced stainless steel interior.



TEMPERATURE LIMITED SHEATH HEATERS

Stainless steel finned tubular heaters with a temperature sensor to limit the max operating temperature.



PRODUCT SENSORS

8 Thermocouples connectors installed on the rear of the chamber for customer device under testing monitoring ***Additional Thermocouples are optional**



CHAMBER ALARM INPUT



LOW FLOW VENT/BURST DISK

Graphite burst disk with rupture sensor that triggers system alarm.



HIGH/LOW TEMP LIMIT

Independent high/low limit controller set to prevent damage to cells.

*ATP limit point is: -20°C and 80°C



AUDIBLE AND VISUAL ALARM

Three color system that emits an audible alarm when the chamber is in an alarm condition.



DOOR LOCK

Electric rotary cam fail safe door lock with mechanical override. *Door will not open in alarm condition *Lock rated to 1119 lbf or 4980 N

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SAFETY PURGE

Inert gas purge is triggered when the chamber is in an alarm state.



The external terminal block sends a voltage signal that, when interrupted, will trigger an alarm state and shut down the chamber. ***This can be interfaced with other test** equipment or DUT



CHAMBER ALARM OUTPUT

When the chamber is powered and in a safe state the contact closer. Loss of power or alarm condition opens the contacts. ***This alarm output is designed to safely disable test equipment or DUT**

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BATTERY TESTING

STANDARDS & SAFETY

Standard AES Chambers 📃 AES Safe Required

SEVERITY LEVEL	DESCRIPTION	EFFECTS		
0	No effect	No effect. No loss of functionality		
1	Reversible Loss of Function	No defect; no leakage; no venting, fire, or flame; no rupture; no explosion; no exothermic reaction or thermal runaway. Cell reversibly damaged. Repair of protection device needed.		
2	Irreversible Defect/Damage	No leakage; no venting, fire, or flame; no rupture; no explosion; no exothermic reaction or thermal runaway. Cell irreversibly damaged. Repair needed.		
3	Leakage ∆ mass <50%	No venting, fire, or flame; no rupture; no explosion. Weight loss <50% of electrolyte weight (electrolyte = solvent + salt).		
4	Venting Δ mass >=50%	No fire or flame; no rupture; no explosion. Weight loss ≥50% of electrolyte weight (electrolyte = solvent + salt).		
5	Fire or Flame	No rupture; no explosion (i.e., no flying parts).		
6	Rupture	No explosion, but flying parts of the active mass.		
7	Explosion	Explosion (i.e., disintegration of the cell).		

*Gas Sensors and Additional Safety Features Available

STANDARD	APPLICATION
IEC 60086-4:	Primary Batteries, Safety of Lithium Batteries
IEC 61960:	Secondary Lithium Cells and Batteries for portable applications
IEC 62133:	Secondary Cells & Batteries Containing Alkaline or Other Non-Acid Electrolytes – Safety Requirements for Portable Sealed Secondary Cells, & for Batteries Made from them, for Use in Portable Applications
IEC 62281:	Safety of Primary and Secondary Lithium Cells and Batteries during Transport
IEC 62660-2:	Reliability & Abuse Testing for Lithium-Ion Cells in Electric Vehicles

RTCA DO-311:	Minimum Operational Performance Standards for Rechargeable Lithium Battery Systems
SAE J2464:	EV & HEV Rechargeable Energy Storage System Safety & Abuse Testing
SAE J2929:	Safety Standard for Electric and Hybrid Vehicle Propulsion Battery Systems Utilizing Lithium-Based Rechargeable Cells
UL 1642:	Standard for Lithium Batteries
UL 2580:	Batteries for use in Electric Vehicles
UN/DOT 38.3:	UN Lithium Battery Testing Requirements

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DASHBOARD

- ✓ Accessible from your laptop, desktop & tablet devices
- ✓ Monitor & control your chamber in real-time
- Customizable features

SECURITY

- Control user access
- ✓ 3 authentication methods
- ✓ 6 permission levels

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PROFILE

- ✓ Manage up to 10 profiles on your chamber
- Import and export profiles in JSON format



DATA LOGGING

- ✓ Monitor live & historical data
- Store up to 8 years of historical sensor data (dependent on
- how many sensors and what rate they are being logged)
- ✓ Pause & resume live plotting
- View, manage and export actitivy logs in JSON format Export sensor data in csv/tsv format

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