



新能源电池类 检测设备

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GAG-H205伺服电池挤压针刺试验机

Battery Needle Squeeze Acupuncture Testing Machine



概述 Description

本机适用于各类电池模拟在处理家庭废物时，电池遭受外力挤压，试验过程中电池不能发生外部短路；并模拟尖锐物对电池造成刺穿电池最大表面的中心位置。可**同时满足消费类、储能类电池的针刺挤压试验。**

This machine is suitable for all kinds of battery-level simulations when the battery is squeezed by external force during the processing of household waste, and the battery cannot be short-circuited during the test; and it simulates the center position of the largest surface of the battery pierced by a sharp object. **It can simultaneously meet the needling extrusion test of consumer and energy storage batteries.**

引用标准 Application Standard

GB 31241-2014, GB/T31485

主要技术参数 Main Specification

主要技术参数 Main Specification	压力范围 Pressure range	20-200KN (20Tons) adjustable
	针刺速度 Testing Speed	10~50mm/S(可调)Adjustable
	挤压速度 Squeeze Speed	5~400mm/min(可调) 5-400mm/min(可调)Adjustable
	针刺行程 Stroke	0 ~ 400mm
	箱体功能 Machine function	防爆、泄压、排烟功能 Explosion-proof, pressure relief, smoke exhaust function
	机台尺寸 (L*W*H) Machine Dimension	1300*900*2200mm
可定制 Custom Design is available		

GAG-H201温控型电池短路试验机 Battery short circuit test machine



概述 Description

本机用于测试蓄电池在一定电阻短接的情况下是否会出现爆炸起火的现象，同时通过相关仪表显示其短接的最大电流。

This machine is used to test whether the battery will explode and catch fire when a certain resistance is short-circuited, and at the same time display the maximum short-circuit current through the relevant instrument.

引用标准 Application Standard

GB 31241-2014、MT/T 1051-2007、YD 1268-2003、UN 38.3、UL 1642、IEC62133-2012

主要技术参数 Main Specification

主要技术参数 Main Specification	温度范围 Temperature Range	RT+10℃ ~ +80℃ (可调) Adjustable
	温度波动度 Temperature Fluctuation	±0.5℃
	温度偏差 Temperature Deviation	±2℃
	最大电流 Maximum current	400A
	装置内阻 Device internal resistance	80±20mΩ (负载电流 400A) (Load current 400A)
	内箱尺寸 Inner Size	W600 X D500 X H600mm
可定制 Custom Design is available		

GAG-H209 电池燃烧试验机

Battery burning test machine



概述 Description

本机适用于锂电池（或电池组）耐燃性试验，对试样进行加热直至电池爆炸或电池烧毁为止，并对燃烧过程进行计时。

This machine is suitable for the flame resistance test of lithium batteries (or battery packs). The sample is heated until the battery explodes or the battery burns out, and the combustion process is timed.

引用标准 Application Standard

U11642《锂电池标准》；
U12054《家用和商用蓄电池组》；
GB31241-2014《便携式电子产品用锂离子电池和电池组安全要求》

主要技术参数 Main Specification

主要技术参数 Main Specification	试验棒直径 Test rod diameter	6.35mm±0.5mm;
	试验棒高度 Test rod height	305mm±1mm
	测试罩宽度 Test cover width	八边形对边 610mm±1mm; Octagon Width
	点火装置 Ignition device	自动点火 Automatic ignition
	视窗尺寸 Window size	390 X 360mm
	机台尺寸(WHD) Machine Dimension	940 X 1620 X 780mm
	可定制 Custom Design is available	

GAG-H206电池重物冲击试验机

Battery weight impact testing machine



概述 Description

圆柱形或方形电池在接受冲击试验时，其纵轴要平行于平面，垂直于钢柱的纵轴。方形电池的最长轴垂直于钢柱，最大面垂直于冲击方向，每只电池只接受一次冲击试验。

When a cylindrical or square battery is subjected to an impact test, its longitudinal axis should be parallel to the plane and perpendicular to the longitudinal axis of the steel column. The longest axis of the square battery is perpendicular to the steel column, and the largest surface is perpendicular to the impact direction. Each battery only accepts one impact test.

引用标准 Application Standard

GB 31241-2014、MT/T 1051-2007、GB/T 18287-2013、UN 38.3、UL 1642

主要技术参数 Main Specification

主要技术参数 Main Specification	落球重量 Falling ball weight	9.1Kg0.1Kg;
	冲击高度 Impact height	0~1000mm 可调
	显示精度 Display accuracy	0.1mm
	箱体尺寸 (WxDxH) Machine Dimension	1000*600*500mm
可定制 Custom Design is available		

GAG-H202电池跌落试验机

Battery drop test machine



概述 Description

本机专用于测试产品包装受到坠落之受损情况，及评估运输搬运过程时耐冲击强度。

This machine is designed to test the damage of product packaging by falling, and to evaluate the impact strength during transportation and handling

引用标准 Application Standard

GBT31485-2015、GBT31467.3-2015

主要技术参数 Main Specification

主要技术参数 Main Specification	跌落高度 Drop height	300~1500mm
	显示精度 Display accuracy	0.1mm
	高度误差 Height error	5mm
	机台尺寸 (WxDxH) Machine Dimension	940 x 940 x 1900mm
可定制 Custom Design is available		

GAG-H203电池过充防爆试验箱 Battery overcharge explosion-proof test box



概述 Description

本试验机主要用于电池进行过充过放，充放电测试中，将电池置于防爆箱中，外接充放电测试仪中，为操作人员及仪器进行保护，本机测试箱体可根据测试需求进行定做。

This testing machine is mainly used for over-charge and over-discharge of the battery. During the charge and discharge test, the battery is placed in an explosion-proof box, and the external charge and discharge tester is used to protect the operator and the instrument. The test box of this machine can be tested according to the test requirements. Make to order

引用标准 Application Standard

GB 31241-2014, GB/T 36672, GB/T31485, GB/T 21966-2008

主要技术参数 Main Specification

主要技术参数 Main Specification	内箱尺寸 (WxDxHmm) Internal Dimension	1000 X 1000 X 1000
	外箱尺寸 External Dimension	W1700 X D1350 X H1500
	箱体材质 Box material	45#钢 Steel
	照明系统 Lighting System	100X200mm 玻璃孔, LED 灯 1 组 100X200mm Glass Window, LED lamp 1 group
可定制 Custom Design is available		

GAG-H204 模拟高空低压箱

Altitude test chamber



概述 Description

测试最终结果要求电池不能爆炸或是着火。另外，电池不能冒烟或是漏液。电池保护阀不能被破坏。

The final result of the test requires that the battery cannot explode or catch fire. In addition, the battery must not smoke or leak. The battery protection valve cannot be destroyed.

引用标准 Application Standard

GB 31241-2014 UN 38.3
UL 1642-2009 Standard for safety lithium batteries
UL 2054-2009 Household and Commercial Batteries

主要技术参数 Main Specification

主要技术参数 Main Specification	外形尺寸 External Dimension	W940 x D780 x H1620 mm;
	真空度 Vacuum Degree	133pa (高于标准要求的 11.6Kpa) Higher than the standard requirement 11.6Kpa
	视窗尺寸 Window size	390 X 360mm
	外型尺寸 External Dimension	W940 x D780 x H1620 mm
可定制 Custom Design is available		

GAG-H210热滥用试验箱

Heat abuse test chamber



概述 Description

电池热冲击试验箱是模拟电池放置在自然对流或强制通风的高温箱中，以一定的升温速率升温至设定测试温度并保持一定时间，采用热风循环系统，可保证工作温度分布均匀。

The battery thermal shock test box is to simulate the battery placed in a high temperature box with natural convection or forced ventilation. It is heated to the set test temperature at a certain heating rate and maintained for a certain period of time. The hot air circulation system is adopted to ensure uniform working temperature distribution.

引用标准 Application Standard

GB/T31485-2015, GB/T31241-2014

主要技术参数 Main Specification

主要技术参数 Main Specification	箱体尺寸 Machine Size	W1000×D1000×H1000
	温度范围 Temperature range	RT+10℃~+150℃ 可调 Adjustable
	温度波动度 Temperature Fluctuation	±0.5℃
	温度均匀度 Temperature uniformity	RT+10~+150℃ ≤±2℃
	升温时间 Heating time	1-5℃/min 可调 Adjustable
	可定制 Custom Design is available	

GAG-H215机械冲击试验台

Mechanical shock test bench



概述 Description

全自动机械冲击测试系统，用于测量和确定产品或包装的抗冲击性能，可执行常规的半正弦波、方波、锯齿波等波形的冲击试验，以实现产品在实际环境中所遭受的冲击波及冲击能量，从而系统的改进或优化产品包装结构。

Fully automatic mechanical shock test system, used to measure and determine the shock resistance of products or packaging, can perform conventional half-sine wave, square wave, sawtooth wave and other wave shock tests to realize the shock wave that the product suffers in the actual environment And impact energy, so as to improve the system or optimize the product packaging structure.

引用标准 Application Standard

GB 31241-2014 QC/T 743 YD/T 2344.1-2011

主要技术参数 Main Specification

主要技术参数 Main Specification	外形尺寸 Machine Size	1100mm×800mm×2800mm
	跌落高度 Drop height	1500mm
	冲击碰撞峰值加速度 Peak acceleration	150~10000m/s ²
	脉冲持续时间 Pulse duration	半正弦波 Half sine wave: 0.8~25ms
可定制 Custom Design is available		

GAG-H216电动振动试验系统

Electric vibration test system



概述 Description

电动式振动试验系统进行小型风机的力学环境试验，评价产品的可靠性。

The electric vibration test system conducts mechanical environmental tests of small fans to evaluate the reliability of the products.

引用标准 Application Standard

GB/T31485-2015, GB/T31241-2014

主要技术参数 Main Specification

主要技术参数 Main Specification	振动台尺寸 Vibration table size	730×600×640mm
	最大速度 Maximum speed	2 m/s
	最大加速度 Maximum acceleration	25.4 m/s ²
	冲击位移 Impact displacement	51 mm
可定制 Custom Design is available		