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北测集团



新能源事业部



深圳市北测新能源技术有限公司

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# NTEK GROUP NEW ENERGY TECHNOLOGY



电池质量安全整体解决方案

SHENZHEN NTEK NEW ENERGY TESTING TECHNOLOGY CO.,LTD.

深圳市北测新能源技术有限公司



行天下測為先  
重品質得未來

NTEK  
NEW  
ENERGY

为电池安全而测



火，开启了人类文明；电，让世界得以运转；电池，让美好随时发生

1746年，马森布罗克发明了收集电荷的“莱顿瓶”

1799年，意大利物理学家伏特制成了世界上第一个电池“伏特电堆”

1887年，英国人赫勒森发明了最早的干电池

1890年，爱迪生发明可充电铁镍电池

1980年，美国物理学家约翰·古德诺夫发明了新型锂电池.....

从此，无数与电池相关的产品：无人机，电动车，航天，物联网，人工智能，纷至沓来的涌向市场。随着电池应用领域的不断扩张，市场对电池有更长续航和更快充电的渴求，制造商不断挑战电池材料和设计的物理极限，导致电池事故频发。

## 如何让电池更安全？

我们需要更严苛的标准。在北测新能源，我们的测试可排除关于电池安全和质量的意见分歧，我们虽不制定规则，但我们以清晰、公平且明确的原则执行规则。





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Chapter 1: Soft Culture

# 軟文化

为电池安全而测

做好每一件最基本的事。

品质高于一切，服务高于一切。

精炼技术，优化服务，增强信任，绿化全球。



## Group Introduction

## 集团简介

北测集团（以下简称"NTEK"），作为国家级高新技术企业、新型材料及电子产品综合公共测试平台，是中国第三方检测认证服务的开拓者，也是国内最早从事商品检验、鉴定、测试、认证等服务的专业机构之一。

NTEK经过十余年发展，在华南、华东、华中、华北、西南分别建有大型综合检测基地。具有行业顶尖的电磁兼容（EMC）、无线射频（RF）、新能源（各类电池、充电桩）、电气安全、能效节能、理化分析（电子电气禁限物质、玩具及婴童用品、服装纺织品、皮革鞋材、饰品箱包类）、食品及接触材料、环境检测、职业卫生与评价、金属及非金属材料检测分析、环境可靠性、失效分析，汽车及零部件的VOC、ELV、气味、雾化、可靠性、功能性测试，汽车电子EMC等实验室，为全球客户提供多元化、一站式检测认证服务。

NTEK实验室严格按照ISO/IEC17025：2005标准建立与实施管理，成为通过中国合格评定国家认可委员会（CNAS：L5516），国际实验室认可合作组织（ILAC）和美国实验室认可协会（A2LA）认可的实验室，并已通过国际电工委员会电工产品合格测试与认证组织（IECEE）审核，成为UL下面的CBTL。公司获得国家质量监督检验检疫总局颁发的进出口商品检验鉴定机构资格证书，是国家强制性产品认证（CCC）指定实验室、中国质量认证中心（CQC）签约检测实验室、计量认证（CMA）实验室，完全具备出具第三方检测报告的资质。



NTEK Group (hereinafter referred to as "NTEK"), as a comprehensive public testing platform for national high-tech enterprises, new materials and electronic products, is the pioneer of the third party testing and certification service in China, and is also the earliest engaged in commodity inspection, appraisal and testing in China. One of the professional institutions for certification and other services

For decades of development, NTEK sets up comprehensive testing laboratory areas in South China, East China, North China and Southwest China. NTEK owns 39 labs in China such as EMC lab, RF lab, New energy, electrical safety, energy efficiency, physical and chemical analysis lab (electronic and electrical substances, toys and baby supplies), food contact materials, environmental monitoring and occupational health and evaluation, metal and nonmetallic materials testing analysis, environmental reliability, failure analysis, vehicle and components (VOC test/ELV test), automotive electronic device EMC test and so on.

NTEK Labs has been established and managed strictly in accordance with the ISO/IEC17025:2005 standards. It has become a laboratory accredited by the China National Accreditation Committee for conformity Assessment (CNAS: L5516), the International Laboratory Accreditation Cooperation Organization (ILAC) and the American Laboratory Accreditation Association (A2LA). It has passed IECEE (International Electrotechnical Commission) qualification testing and Certification Organization for Electrical products, and has become CBTL. the company under UL has obtained the qualification certificate issued by the State Administration of quality Supervision, Inspection and Quarantine for Import and Export Commodity Inspection and Appraisal, CCC is a designated laboratory, China quality Certification Center (CQC) contract testing laboratory, measurement certification CMA) laboratory, complete with the issuance of third-party testing report qualifications.

# Historical Evolution

## 历史沿革

# 2002-至今

## NTEK GROUP

### 2002年创立

泽铭企业管理技术有限公司（北测前身）在中国深圳创立，为进出口企业提供UL、CSA、VDE、CE、FCC、FDA、CCEE等产品检测认证技术服务，是深圳最早从事产品检测认证技术服务机构之一。

In 2002, Zeming enterprise management technology co., Ltd. (NTEK predecessor) was founded in Shenzhen, china, to provide products testing and certification technical services for import and export enterprises, such as UL, CSA, VDE, CEE, FCC, FDA, CE and CCEE. It is one of the earliest technical service organizations engaged in product testing and certification in Shenzhen

### 2003

深圳最大CCC代理机构，服务众多知名集团公司，凭借专业、高效的服务广受客户好评。

In 2003 : Ntek became the largest CCC agent in Shenzhen and served many well - known companies . With professional and efficient services , it was well received by customers

### 2004

成为北京四所、广州五所、广州威凯、深圳电检、深圳计量院等集团公司的战略合作伙伴，并建立中山、东莞、广州、深圳、宁波、上海分公司，在全国范围内为中外企业提供检测认证服务，是IT/AV类产品最大的认证服务商。

In 2004, NTEK became a strategic partner of Beijing four, Guangzhou five, Guangzhou Weikai, Shenzhen Electric Inspection, Shenzhen Metrology Institute, and established Zhongshan, Dongguan, Guangzhou, Shenzhen, Ningbo, Shanghai, etc. To provide testing and certification services for Chinese and foreign enterprises nationwide, it is the largest certification service provider for IT/AV products

### 2005

获“最佳诚信代理机构”荣誉称号；国内IT/AV类产品知名企业前50强认证服务商。

In 2005, NTEK received the honorary title of "the best good faith agency", the top 50 leading certification service providers of IT/AV products in China

### 2007

连续五年排名深圳国内认证代理机构综合实力第一。

In 2007, NTEK ranks first in the Comprehensive strength of domestic Certification agencies in Shenzhen for five consecutive years

### 2008

开发能效检测认证项目，为全国自整流荧光灯、电磁炉、储水式热水器等上千家企业服务。

In 2008, NTEK develops the energy efficiency testing certification project for thousands of enterprises, such as self-rectifying fluorescent lamp, induction cooker, water storage water heater and so on.

### 2009

正式更名为深圳市北测检测技术有限公司。

In 2009, NTEK officially renamed Shenzhen NTEK Testing Technology Co., Ltd.

### 2012

获得CNAS、CMA、UL、TUV、ITS、NEMKO的FCC、EMCC、CEC等全球权威机构认可与授权，筹建了新能源实验室。

In 2012, NTEK received CNAS, CMA, UL, TUV, ITS, NEMKO, FCC, EMCC, CEC and other global authority accreditation and authorization, and established a new energy laboratory.

### 2014

新增理化分析、汽车检测实验室；获得“国家级高新技术企业”资格认定。

In 2014, NTEK added physical and chemical analysis, vehicle testing laboratory, and obtained the "national high-tech enterprises" qualification recognition

### 2016

全资收购安姆特昆山实验室，成立昆山北测检测技术有限公司为北测集团华东综合检测基地；民营首批CCC强制产品认证检测实验室、深圳绿色制造检测公共技术服务平台；筹建汽车电子EMC实验室。

In 2016, NTEK set up Kunshan North Test and Test Technology Co., Ltd., and became the first batch of private CCC compulsory product certification testing laboratory and Shenzhen green manufacturing testing public technology service platform. Meanwhile, NTEK established the automobile electronic EMC laboratory.

### 2015

民营企业首家CQC签约电池实验室；并购ATC东莞市冠佳检测技术有限公司；深圳市新型材料以及电子产品综合检测公共服务平台。

In 2015, NTEK became the first CQC contract battery laboratory for private enterprises; at the same time, it acquired ATC Dongguan Guanjia Testing Technology Co., Ltd., and became the public service platform for comprehensive testing of new materials and electronic products in Shenzhen.

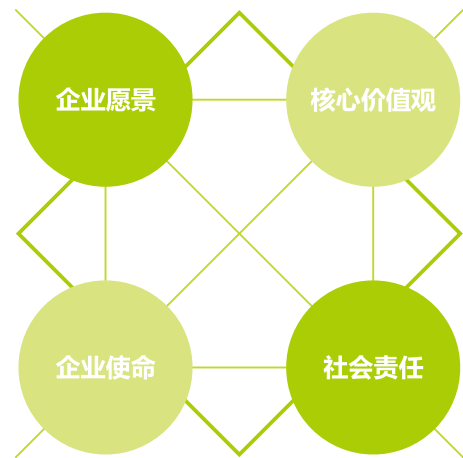
### 2017

成为侵权伪劣物品检验鉴定技术创新联盟副理事长单位；全资并购福建拓普检测技术有限公司，为北测集团旗下福建第四大检测基地；获得美国A2LA授权认可；首批中国FCC授权实验室，UL，CBTL实验室；获“深圳市创新百强中小企业”

In 2017, NTEK became vice chairman of the technical innovation alliance for the inspection and identification of infringing and shoddy articles; it was authorized by A2LA of the United States; it became the only UL-CBTL laboratory in Shenzhen; at the same time, it awarded the title of "Shenzhen Innovation Top 100 small and Medium-sized Enterprises".







## NTEK of Measurement 北测之道

- > **愿景 Vision**  
成为最受人信赖的检测验证机构  
To be the most reliable testing and certification agency
- > **使命 Mission**  
为客户提供最合适的解决方案，用行动与责任成就生活之美  
To provide the most suitable solution for clients,  
to achieve beauty of life with action and obligation
- > **核心价值观 Core Values**  
客户第一、团队合作、拥抱变化、激情、诚信、敬业  
Client first, teamwork, embrace change, passion, integrity, professionalism
- > **社会责任 Social Responsibility**  
促进全球产业快速发展，从质量体系、健康与安全、环境和社会责任管理等  
方面，为客户创造经济价值，服务民生，优化环境，促进人与自然和谐发展，  
从而降低经营者风险，提高经营绩效。  
Strengthening the quality system, health and safety, environmental and social  
responsibility management in the global industry' s rapid development, creating  
economic value for customers, serving and optimizing the environment of the  
people' s livelihood, promoting the hamonious development of man and natureat  
the same time, so as to reduce the risk of the operator, and to improve business  
performance.

## The Persistence of New Energy 新能源的坚持

- > 做好每一件最基本的事。
- > 品质高于一切，服务高于一切。



Make every one of the most basic things  
Quality is above all, service is above all

NTEK

NTEK

Chapter 2: Hard Power

# 硬实力

重品质 得未来

综合实力  
Comprehensive strength



# Qualification&Authorization

## 资质荣誉与授权



**中国强制产品认证 (民营首批)**  
China Compulsory Certification for safety product lines(The first private group)



**CQC委托检测实验室**  
中国质量认证中心 (电池民营第一家)  
China Quality Certification Centerqc entrusted testing lab(First Civilian-Run Enterprise For Battery)



**进出口商品检验鉴定机构(AQSIQ)**  
International High-Tech Enterprise



**CNAS认可**  
中国合格评定国家认可委员会认可  
By the China National Accreditation (CNAS) approval



**CMA计量认证资质**  
Owns Qualification Certificate Of Meteorology Attestation



**美国实验室认可协会授权实验室**  
accredited LABORATORY insurers authorized laboratory



**国际电工委员会 (IECEE) 认可实验室**  
CB Testing Laboratory



**香港机电工程署认可授权实验室**  
Shenzhen Polymer Industry Association



**美国消费品安全委员会 (CPSC)**  
Consumer Product Safety Commission (CPSC)



**新型材料与电子产品综合公共测试平台**  
Public Testing Platform Of New Materials And Electronics



**绿色制造检测公共技术服务平台**  
Public Testing Platform Of New Materials And Electronics



**韩国机械电气电子试验研究院**  
Shenzhen Quality Examination Management Promotion Council Members



**全国电子产品与系统的环境标准化技术委员会会员**  
The National Electronic Product And System Environment Standardization Technical Committee Members



**全国汽车标准化委员会组员**  
China Auto Standardization Committee Members



**北京侵权伪劣物品检验鉴定技术创新联盟**  
Beijing Technical Innovation Alliance for inspection and identification of inferior and inferior commodities



**先进测试技术开发平台**  
北京大学深圳系统芯片设计重点实验室  
Key Laboratory of Peking University Advanced testing technology development platform Shenzhen Processor-based SoC Platforms



**国家级高新技术企业**  
International High-Tech Enterprise



**深圳市电池行业协会**  
Shenzhen Battery Industry Association



**美国联邦通讯委员会认可授权实验室**  
Shenzhen e-commerce product quality and Safety Promotion Association



**UL授权实验室**  
The United States UL insurers authorized laboratory





## Laboratory Strength 实验室实力



北测新能源专注于研究各国新能源产品标准的变化，并和国际知名机构保持良好的合作关系，专属团队为新能源产业相关制造商，分销商及进口商提供高度灵活的一站式测试和认证服务解决方案，以配合客户轻松便捷的获得进入多国市场的通行证。

NTEK New Energy focuses on the changes in national standards of new energy products, and maintains a good relationship with internationally renowned organizations, with a dedicated team for manufacturers related to the new energy industry. Distributors and importers provide a highly flexible one-stop test and certification service solution to facilitate customers' easy access to multinational markets.

目前新能源实验室配备了领先的检测设备和仪器，根据欧盟、北美等主要国家和地区的相关标准对各类新能源产品提供检测认证服务，以保证新能源产品符合安全、性能、储存、运输、化学及电磁兼容等各项要求，是新能源产业的可靠合作伙伴。

At present, the New Energy Laboratory is equipped with leading testing equipment and instruments to provide testing certification services for all kinds of new energy products in accordance with the relevant standards of major countries and regions such as the European Union and North America, in order to ensure that new energy products conform to safety and performance. Storage, transportation, chemical and electromagnetic compatibility requirements are reliable partners in the new energy industry.

**选择我们的优势：**第三方机构认证标志提升竞争力，减少产品本身带来的风险，进入市场的快捷通道，降低海关延误，企业社会责任形象的提升。

The advantages of choosing us: third party certification logo to enhance competitiveness, reduce the risk of the product itself, enter the market fast passage, reduce customs delays, corporate social responsibility image promotion.



### 行业翘楚 实力见证

北测新能源专注于研究各国新能源产品标准的变化，专属服务团队为电池制造商、电池分销商及进口商提供高度灵活的一站式测试和认证解决方案；现已成功帮助众多客户进入他国市场，并建立长期合作关系。

NTEK New Energy focuses on research on changes in national standards for new energy products, with dedicated service teams providing highly flexible one-stop testing and certification solutions for battery manufacturers, battery distributors and importers; It has successfully helped many customers to enter other countries' markets and established long-term cooperative relations.

新能源实验室严格按照ISO/IEC 17025标准建立与管理，通过中国合格评定国家认可委员会（CNAS L5516）认可，且得到众多国际权威机构的资质授权，其中包括美国UL、韩国KTC、德国TUV等；实验室还配备了领先的检测设备和仪器，根据国际标准对原电池、锂电池、动力电池、储能电池及移动电源等产品提供检测服务，具有向电池客户出具公正有效数据的过硬实力。

New Energy Laboratory is established and managed strictly in accordance with ISO/IEC 17025 standard. It is approved by China National Accreditation Committee of conformity Assessment (CNAS L5516), and has been authorized by many international authoritative organizations, including the United States, Korea KTC, Germany TUV and so on. The laboratory is also equipped with leading testing equipment and instruments to provide testing services for primary batteries, lithium batteries, power batteries, energy storage batteries and mobile power sources in accordance with international standards, with the ability to provide fair and effective data to battery customers.

# Operating Characteristics

## 运营特色

### Project Value Chain

#### 项目服务价值链



- > **1.项目启动阶段:** 认证项目启动前是整个项目从零到一个的过程, 对于项目整体至关重要。北测新能源在项目启动前会深度挖掘客户的需求, 召开项目讨论会, 根据客户的真实需求进行立项并选出基本的项目组成员, 包括对接的业务、客服以及工程师。  
Project start-up phase: certification of the project is a process from zero to one prior to the start of the project, which is essential to the project as a whole. Select basic project team members, including sales, customer service, and engineers, according to the actual needs of the customer.
- > **2.项目执行阶段:** 北测新能源将定期反馈客户项目进度, 如遇异常情况, 项目组成员将及时与客户沟通异常情况并给出整改方案建议, 以促成项目的顺利进行。  
project execution phase: NTEK will provide regular feedback on the progress of the customer project. In case of any unusual situation, the members of the project team will communicate the abnormal situation with the customer in a timely manner and give suggestions for the rectification plan to facilitate the smooth progress of the project.
- > **3.项目收尾阶段:** 项目顺利进行后, 项目组成员将出具草稿件发于客户确认, 客户确认无误后将出具正式函并安排相关收尾事宜。  
Project closure: after the project has proceeded smoothly, the members of the project team will issue a draft copy to the customer for confirmation, and after the customer confirms that it is correct, a formal letter will be issued and arrangements will be made for the completion of the project.

# Market Recognition

## 市场认同





# Business Communication

## 行业交流

北测新能源为各电池产品制造商提供一站式解决方案服务，确保产品符合各国标准和法规要求。我们坚信知识通过应用才能转变为力量，也坚信资讯分享才有价值，因此将善用研究成果和工作经验，持续向业界传递电池类产品的安全预防、管控和追踪等解决方案。

NTEK New Energy provides one-stop solutions for battery manufacturers to ensure that products meet national standards and regulatory requirements. We firmly believe that knowledge can be transformed into power through application, and that information sharing is of value. Therefore, we will make good use of the research results and work experience, and continue to deliver the safety prevention, control and tracking solutions of battery products to the industry.

研讨：北测新能源主办的锂电池最新国际认证法规年度研讨会，聚焦行业最热最新话题，点拨产业发展难题，为锂电企业建立健全的产品规范和质量保障体系提供方向指引。

Discussion: the Annual Symposium on the latest International Certification regulations for Lithium Battery, sponsored by the New Energy Division of the North Test Group, focuses on the hottest and latest topics in the industry, and points out the problems in the development of the industry. To provide direction guidance for lithium power enterprises to establish sound product specifications and quality assurance system.

展会：1.中国国际电池技术交流会/展览会(缩写:CIBF)是国际电池行业规模最大的会展活动，是电池行业第一个通过商标注册保护的的品牌展会。北测集团是每一届CIBF展会的重要参展商。2. 香港电子展是全球最大、影响力最广泛的全球性电子展之一，图为北测新能源参展香港秋季电子展合影。3.北测新能源作为深圳市电池行业协会副会长，受邀出席深圳电池2018年度峰会并发表主题演讲。

Exhibition : 1.China International Battery Technology Exchange / Exhibition CIBF is the largest exhibition activity in the international battery industry. It is the first brand exhibition to be protected by trademark registration in the battery industry. NTEK New Energy is an important exhibitor for each CIBF exhibition. 2.Hong Kong Electronic Show is one of the largest and most influential global electronic exhibitions in the world. Photo taken at the Hong Kong autumn electronic exhibition. 3. as vice president of Shenzhen Battery Industry Association, NTEK New Energy was invited to the Shenzhen Battery 2018 Annual Summit and delivered a keynote speech.



< 研讨 Discussion



研讨 Discussion >



研讨 Discussion



< CIBF展会



香港展 Exhibition >



电池峰会 Summit



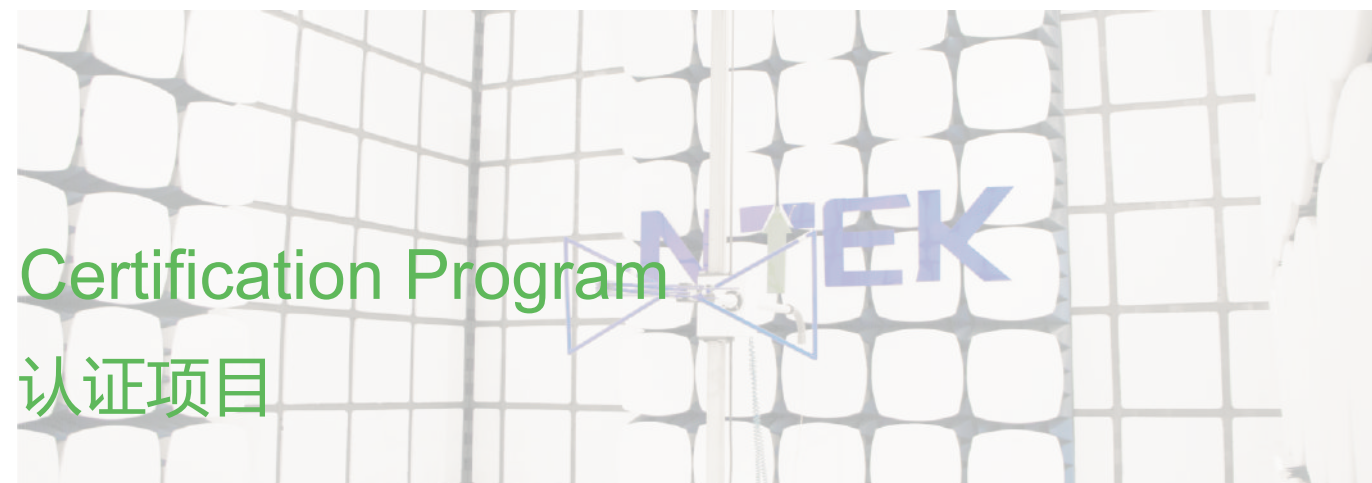
Chapter 3: Heart Service

# 心服务

行天下  
测为先

以人为本 热情高效  
私人定制 服务跟踪  
全球认证 与您同行





消费电子类电池及移动电源

| 目标市场       | 服务项目                       | 测试标准   | 适用产品            |
|------------|----------------------------|--|-----------------|
| 全球         | UN38.3认证                   | ST/SG/AC.10/11/Rev.n-Section38-Amend IATA DGR                            | 锂电池/移动电源        |
|            | MSDS编写                     | ISO 11014 Safety data sheet for chemical products                        | 电池/移动电源         |
|            | 中国及跨境电商平台                  | 依据电商平台要求   | 锂电池/移动电源        |
|            | Qi认证                       | The Qi Wireless Power Transfer System Power Class 0 Specification Part 3 | 无线充电移动电源        |
|            | QC3.0                      | Quick Charge 3.0   | 快充移动电源          |
|            | MFI认证                      | Made for iPod iPhone iPod  | 苹果使用的移动电源       |
| 中国         | CQC 认证 随机测试<br>质检报告 国抽省抽验证 | GB 31241   | 便携式二次电芯与电池      |
|            |                            | GB 4943.1 GB 31241   | 移动电源            |
|            | 中国RoHS                     | GB/T 26572   | 便携式二次电芯与电池/移动电源 |
|            | 免征消费税报告                    | 依据税局要求   | 电池              |
| 台湾         | BSMI认证                     | CNS 15364  | 便携式二次电芯与电池/移动电源 |
| CB成员国      | CB认证                       | IEC 62133 IEC 60950  | 便携式二次电芯/电池/移动电源 |
|            |                            | IEC 61960  | 锂电池/移动电源        |
|            |                            | IEC 60086  | 一次电芯/电池         |
| 德国         | GS认证                       | EN 60950 & AfPS GS 2014:01PAK  | 锂电池/移动电源        |
| 欧盟/国际电工委员会 | EN/ IEC Test report        | EN/IEC 62133 EN/ IEC 60950   | 便携式二次电芯/电池/移动电源 |
|            |                            | EN/ IEC 61960  | 锂电池             |
|            |                            | EN/ IEC 60086  | 一次电芯/电池         |
| 欧盟         | CE认证                       | EN 55032 EN55024<br>EN 61000-6-1/3                                       | 电池/移动电源         |
|            | 电池指令                       | 2013/56/EU   | 电芯/电池           |
|            | WEEE                       | 2012/19/EU   | 电芯/电池/移动电源      |
|            | RoHS认证                     | 2011/65/EU   | 电池/移动电源         |
|            | REACH认证                    | SVHC 181项  | 电池/移动电源         |
|            | FCC认证 (美国)                 | Part 15B   | 电池/移动电源         |
| 北美         | IC认证 (加拿大)                 | ICES-003   | 电池/移动电源         |
|            | UL/ cTUVus/ ETL认证/ NRTL认证  | UL1642   | 锂电芯/电池          |
|            |                            | UL 2054 UL 60950<br>UL 62133 CSA 62133                                   | 家用和商用电池         |
|            | CTIA                       | IEEE 1725 IEEE 1625  | 通信产品用电池         |
|            | SDS编写                      | OSHA Hazard Communication Standard                                       | 电芯/电池/移动电源      |

| 目标市场  | 服务项目         | 测试标准  | 适用产品             |
|-------|--------------|---|------------------|
| 北美    | WERCSmart注册  | 依据WERCS官网要求   | 各类电池及带电池产品       |
|       | RBRC认证       | 电池回收要求  | 各类电池             |
|       | 加州65         | California PP65   | 电池/移动电源          |
|       | CEC          | CEC-400-2012-019CMF   | 移动电源             |
| 日本    | PSE认证        | METI (H25.07.01): Appendix 9<br>J 62133: H28                      | 便携式二次锂电芯/电池/移动电源 |
| 韩国    | KC认证         | KC 62133  | 便携式二次锂电芯/电池      |
|       |              | MSIP & KC 62133   | 移动电源             |
| 澳大利亚  | RCM认证        | AS/NZS CISPR 32 AS/NZS 61000-6-3                                  | 便携式二次电池          |
|       |              | AS/NZS CISPR 32 &EN/ IEC62133                                     | 移动电源             |
| 巴西    | ANATEL认证     | ANATEL' s Resolution 242<br>IEC 61960 & IEC 62133 & IEC 61000-4-2 | 手机电池             |
|       | INMETRO认证    | 等同IEC 62133:2017  | 非手机用锂电池          |
| 泰国    | TISI认证       | TIS 2217-2548 (2005)  | 锂电芯与电池           |
| 越南    | SDoC(MIC)认证  | QCVN-101:2016/BTTTT   | 锂电池              |
| 印度    | CRS 注册 BIS认证 | IS 16046  | 锂电池芯/电池包         |
|       |              | IS 13252 (Part 1)   | 移动电源             |
| 沙特阿拉伯 | SASO认证       | IEC对应标准   | 电池/移动电源          |
| 墨西哥   | NOM          | NOM-024-SCFI  | 电池               |
| 马来西亚  | MC认证         | IEC 60086   | 一次电芯/电池          |

电气储能及动力类电池

| 目标市场       | 服务项目                | 测试标准  | 类别Category     |
|------------|---------------------|---|----------------|
| 全球         | UN38.3认证            | ST/SG/AC.10/11/Rev.n-Section38-Amend IATA DGR     | 锂电池            |
|            | MSDS编写              | ISO 11014 Safety data sheet for chemical products | 电池             |
| 中国         | Test report         | GB/T 31484/5/6                                    | 动力电池芯 (锂系)     |
|            |                     | GB/T 31467.1/2/3                                  | 动力电池系统 (锂系)    |
| 欧盟         | CE认证                | EN 61000-3-1/2/3/4                                | 储能电池系统         |
|            | Test report         | ISO 12405   | 动力电池系统         |
| CB成员国      | CB认证                | IEC 62619<br>IEC 62620(工业用的性能要求)                  | 储能电池芯/系统 (锂系)  |
|            |                     | IEC 62660   | 动力电池芯 (锂系)     |
| 欧盟/国际电工委员会 | EN/ IEC Test report | EN/ IEC 62619<br>EN/ IEC 62620(工业用的性能要求)          | 储能电池芯/系统 (锂系)  |
|            |                     | EN/ IEC 60730 Annex H(BMS功能安全评估)                  | 储能电池系统 (锂系)    |
|            |                     | EN/ IEC 62660                                     | 动力电池芯 (锂系)     |
| ECE成员国     | E-Mark认证            | ECE R 100   | 电动汽车用电池        |
| 北美         | UI认证                | UL 2271   | 轻型电动车用电池       |
|            |                     | UL 1973   | 轻型电动轨道及固定设备用电池 |
|            |                     | UL 2580   | 电动汽车用电池        |
|            | Test report         | SAE J2464 & Freedomcar                            | 动力电芯           |
| 日本         | S-Mark              | JIS C 8715-2/SBA S1101                            | 储能电池芯          |
|            |                     | JIS C 8715-1/ JIS C 8715-2                        | 储能电池系统         |



# Detection Capability

## 检测能力

### 实验室检测能力

#### 环境测试Environmental Testing

低气压（高度模拟）Low Pressure  
 温度循环Temperature Cycling  
 热滥用Thermal Abuse

#### 机械测试Mechanical Testing

振动Vibration  
 机械冲击Mechanical Shock  
 自由跌落Free Fall  
 挤压Crush  
 重物冲击Impact

#### 电气测试Electric Testing

额定容量Rated Capacity  
 过度放电Over Discharge  
 强制放电Forced Discharge  
 外部短路External Short Circuit  
 内阻Internal Resistance  
 放电性能Discharge Performance  
 过度充电Over Charge  
 高倍率充电High-rate Charging  
 耐久寿命Endurance  
 荷电保持和恢复  
 Charge Retention and Recovery

#### 火焰暴露试验Fire Exposure Testing

燃烧抛射体测试Projectile

#### 设计评估Design Evaluation

强制内部短路  
 Forced Internal Short Circuit

#### 电池电化学分析Electrochemical Analysis

#### 防爆测试Atmosphere Explosives Test

#### 电池材料特性分析Battery Materials Analysis

#### 电磁兼容测试Electro Magnetic Compatibility

传导 Conducted Emission  
 辐射骚扰Radiation Disturbance  
 静电放电抗扰度试验  
 Electrostatic Discharge Immunity Test  
 辐射发射  
 Radiated Emissions from Components/modules  
 传导发射  
 Conducted Emissions from Components/modules  
 辐射抗扰度测试-电波暗室法  
 Radiated Immunity Test- ALSE Method (RS)  
 大电流注入测试  
 Bulk Current Injection Test (BCI)  
 瞬态发射测试 Transient Emission  
 信号电源线的瞬态传导抗干扰测试  
 Pulse Interference on Sensor Cables  
 静电放电测试  
 Electrostatic Discharge Test (ESD)  
 磁场抗扰测试  
 Immunity to Magnetic Fields  
 手持天线测试  
 Immunity to Handy Transmitter Test  
 直流电源电压测试  
 Direct Current Supply Voltage  
 过电压测试 Overvoltage  
 叠加交流电压测试  
 Superimposed Alternating Voltage  
 缓慢增减电源电压测试  
 Slow Decrease and Increase of Supply Voltage  
 电源电压中断测试  
 Discontinuities in Supply Voltage  
 电压降落复位/电压降落的重置测试  
 Reset Behaviour at Voltage Drop  
 启动测试 Starting Profile  
 抛负载测试 Load Dump  
 反向电压测试 Reversed Voltage  
 地面参考和电源偏移测试  
 Ground Reference and Supply Offset  
 短路测试 Open Circuit Tests  
 多个线路中断测试 Multiple Line Interruption  
 短路保护测试 Short Circuit Protection  
 绝缘电阻测试 Insulation Resistance



# Research Institute

## 研究院

#### > 新技术新方法新研究

新技术新项目研究与开发，使用创新方法为客户解决问题  
 Research and development of new technology and new projects  
 Use innovative methods to solve problems for customers

#### > 知识产权研究保护

研究新项目，做好知识产权保护  
 Research new projects  
 Do a good job of intellectual property protection

#### > 前沿技术人才培养

培养高端技术人才，依据项目定向培养专业人才  
 Cultivating high skilled talents  
 Training professional talents based on project orientation

#### > 法规标准起草修订

参与国家法规、标准起草，积极参与各标委会工作  
 Participate in drafting national laws and standards  
 Actively participate in the work of Standardization Committee

#### > 法规资讯研讨交流

新型技术分享与交流，促进产业可持续发展  
 New technology sharing and communication  
 Promote the industry sustainable development





# Battery Quality Safety Plan

## 电池质量安全方案

### Program goal

#### 方案目标

##### 品牌影响力

为客户提供一站式的质量安全解决方案

使得电池产品进入市场提供保障

Provide customers with one-stop quality and safety solutions  
Enable battery products to enter the market to provide protection

##### 质量保障

合规

符合目标市场法律、法规、指令及标准的要求

合规为准入的最基本要求

Compliance with the laws, regulations, directives and standards of the target market Enable battery products to enter the market to provide protection

Compliance is the most basic requirement of access

持续改进

依据产品功能完善、市场反馈信息、消费者意见等进行产品质量提升

Improve product quality according to product function perfection, market feedback, consumer opinion, etc.



合格

三个基本要求

合规、具备产品应当具有的功能

达到生产商对消费者的承诺

Comply with regulations

Have the function that the product should have

To achieve the manufacturer's commitment to the consumer

制定标准

一流企业做标准，在做好产品的同时，建立产品行业/国家标准，引领行业发展，成为行业标杆企业

First-rate enterprises should do the standard, set up the product industry / national standard at the same time, lead the development of the industry, and become the benchmark enterprise of the industry.

一致性

原材料、关键零部件质量一致性

生产工艺、体系一致性

产品质量、检验一致性

Quality consistency of raw materials and key parts

Production process, system consistency

Product quality, test consistency

##### 风险控制

准入风险

通过对全球法规和标准的研究，确保产品符合各地法规/标准的要求，消除贸易

壁垒，预防准入风险

Through the study of global regulations and standards, ensure that product symbolsCombine the requirements of local laws and regulations to eliminate trade barriers and prevent entry risks

安全风险

通过对产品功能、可靠性进行验证，避免产品出现安全风险

By verifying product functionality and reliability,Avoid product safety risks.

一致性风险

通过对材料、零部件和成品的检测和验证，确保产

品的一致性

Through the detection of materials, components and finished products Verification to ensure product consistency.

**研发阶段 Research and development stage**

**生产阶段 Production stage**

**销售阶段 Sales stage**

降低成本

研发成本

导入法规、标准提高研发成功率

Import regulations and standards to increase research and development success rate

供应链成本

明确产品要求，提高产品合格率

Clear product requirements and increase product qualification rate

认证、检测成本

统一标准减，少重复测试

产品/材料一致性服务

Uniform standard reduction, less repetitive testing  
Product/Material Consistency Service

市场成本

验货服务，降低召回风险

Inspection service to reduce the risk of recall



# 诚信检测承诺书

## Integrity Test Commitment



We are the most reliable certification  
service for battery testing  
我们是最值得您信赖的电池检测认证服务机构