



专业研究技术壁垒、市场准入和研发验证的质量服务机构  
CNAS,CMA,CCC,CQC,AQSIQ,A2LA,NCB 认可实验室

A professional quality service organization specializing in technical barriers, market access, and R&D verification.

NTEK is an accredited laboratory of CNAS,CMA,CCC,CQC,AQSIQ,A2LA,NCB.



集团微信

集团官网: [www.ntek.org.cn](http://www.ntek.org.cn) 客服热线: 400-800-6106

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The final examination of all the information,the government legal documents and drawings shall prevail.

*Reliable test reap the beauty of life*

# 集团文化

## GROUP CULTURE

### 使命 Mission

为客户提供最具价值的质量解决方案，用专业和责任成就生活之美  
To provide the most appropriate quality solutions for customers, to achieve the beauty of life with professionalism and responsibility.

### 愿景 Vision

成为最受人信赖的质量研究技术服务机构  
To be the most trusted quality research and technical service organization.

### 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

应用先进的科学技术帮助消费者建立对产品和服务可持续的信任感，对客户、合作伙伴、员工和股东负责。  
Applying advanced science and technology to help consumers build sustainable sense of trust in products and enterprises, and be accountable to customers, partners, employees and shareholders.



深圳总部实验基地  
Shenzhen HQ Laboratory



深圳新桥实验基地  
Shenzhen Xinqiao Laboratory



深圳航城实验基地  
Shenzhen Hangcheng Laboratory



上海实验基地  
Shanghai Laboratory



昆山实验基地  
Kunshan Laboratory



惠州实验基地  
Huizhou Laboratory

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**NTEK® 北测集团**

# 集团介绍

GROUP INTRODUCTION

## 关于我们的

ABOUT US

北测集团（以下简称“NTEK”）成立于2009年，总部位于深圳，主要从事智能网联汽车、电子通信、新能源的研发验证、检验检测、失效分析、仿真模拟和市场准入等质量研究技术服务。

NTEK经过十余年发展，分别在长三角、珠三角建有大型综合性实验室基地。

具有行业顶尖的电磁兼容（EMC）、无线射频（RF）、电气安全、能效节能、理化分析、材料测试、环境可靠性、失效分析等实验室。服务领域涉及：智能通信、物联网、信息技术、家用电器、照明电器；新能源（充电桩/枪、光伏逆变器、储能、各类电池）；汽车及零部件的VOC、ELV、气味、雾化、可靠性、功能寿命测试；汽车电子EMC、电性能、信息安全、车规芯片AEC-Q等，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/IEC17025：2017标准建立与实施管理，并通过中国合格评定国家认可委员会（CNAS：L5516）和国际实验室认可合作组织（ILAC）认可的实验室。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。

NTEK获得美国CPSC、UL、A2LA、FCC、CEC、ETL、Eurofins-MET、德国TUV莱茵、TUV南德、英国ITS、西班牙Applus、澳洲SAA、Global Mark、加拿大CSA、ISED、挪威NEMKO、香港机电署EMSD、韩国KTC、RRA、泰国NBTC、印尼SNI、SDPPI、沙特Sarber、阿联酋ECAS、TDRA、南非ICASA、尼日利亚SONCAP、NCC、墨西哥NOM、IFT、智利SEC、巴西INMETRO、ANATEL等国际机构认可，检测报告具有权威公信力。

NTEK的博士后创新基地拥有多名海内外博士和相关领域技术专家，在SAC/TC114、SAC/TC79、SAC/TC599、SAC/TC297、SAC/TC15、SAC/TC48、SAC/TC185、SAC/TC252等国家标准化技术委员会担任专家委员，主导多项国家标准和行业标准的制修订。

NTEK Group (hereinafter referred to as "NTEK") was established in 2009, headquartered in Shenzhen. It is mainly engaged in quality research and technical services such as R&D verification, inspection and testing, failure analysis, simulation and market access for intelligent connected vehicles, electronic communications and new energy.

After more than ten years of development, NTEK has built large-scale comprehensive laboratory bases in the Yangtze River Delta and the Pearl River Delta.

NTEK has the industry's top laboratories for electromagnetic compatibility (EMC), wireless radio frequency (RF), electrical safety, energy efficiency and energy saving, physical and chemical analysis, material testing, environmental reliability, failure analysis etc. The service areas include: intelligent communication, Internet of Things, information technology, household appliances, lighting appliances; new energy (charging piles/guns, photovoltaic inverters, energy storage, various batteries); VOC, ELV, odor, atomization, reliability, functional life testing of automobiles and parts; automotive electronics EMC, electrical performance, information security, automotive chip AEC-Q, etc., providing diversified one-stop testing and certification services for global customers.

NTEK Laboratory is established and managed in strict accordance with ISO/IEC17025:2017 standards, and is accredited by China National Accreditation Service for Conformity Assessment (CNAS: L5516) and International Laboratory Accreditation Cooperation (ILAC). It has obtained the Import and Export Commodity Inspection and Identification Agency Qualification Certificate issued by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China, and is a designated laboratory for National Compulsory Product Certification (CCC), a contracted testing laboratory of China Quality Certification Center (CQC), and a Metrology Certification (CMA) laboratory.

NTEK is recognized by international organizations such as CPSC, UL, A2LA, FCC, CEC, ETL, Eurofins-MET in the United States, TUV Rheinland, TUV SÜddeutsche in Germany, ITS in the United Kingdom, Applus in Spain, SAA, Global Mark in Australia, CSA, ISED in Canada, NEMKO in Norway, EMSD in Hong Kong, KTC in South Korea, RRA in South Korea, NBTC in Thailand, SNI, SDPPI in Indonesia, Sarber in Saudi Arabia, ECAS, TDRA in UAE, ICASA in South Africa, SONCAP, NCC in Nigeria, NOM, IFT in Mexico, SEC in Chile, INMETRO, ANATEL in Brazil, and our test reports have authoritative credibility.

NTEK's postdoctoral innovation base has many doctors and technical experts from home and abroad. They serve as expert members in national standardization technical committees such as SAC/TC114, SAC/TC79, SAC/TC599, SAC/TC297, SAC/TC15, SAC/TC48, SAC/TC185, and SAC/TC252, and lead the formulation and revision of many national and industry standards.

## 研究院

RESEARCH INSTITUTE



### 新技术 新项目研发

Research and development of new technologies and projects

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 technologies and projects, using innovative methods to solve problems for customers.



### 仪器研发 系统集成

Instrument development, system integration

针对市场/检测的难点和痛点问题，开发准确、高效的分析仪器和系统集成方案

Develop accurate and efficient analytical instruments and system integration solutions for market/testing difficulties and pain points.



### 前沿技术 人才团队

Frontier technical talent team

建立博士后创新实践基地，研究生实践基地等平台，努力构建高水平的人才团队

Establish postdoctoral innovation practice base, graduate practice base and other platforms, strive to build a high-level talent team.



### 数据建模 仿真模拟

Data modelling and simulation

利用大数据分析，建立数据模型，对产品的质量进行仿真模拟，提升研发成功率，降低成本

Using big data analysis to build data models, simulate product quality, improve the success rate of research and development, and reduce costs.



### 法规/标准 制定、研讨

Formulation and discussion of regulations/standards

主导法规/标准的制修订，并进行研讨与宣贯，促进产业可持续发展

Lead the formulation and revision of regulations/standards, conduct discussions and publicity, and promote the sustainable development of the industry.

# 资质荣誉与授权

## QUALIFICATION & AUTHORIZATION



中国合格评定国家认可委员会认可  
Approved By China National Accreditation Service For Conformity Assessment (CNAS)



CMA计量认证资质  
China Metrology Accreditation (CMA) Qualification



进出口商品  
检验鉴定机构(AQSIQ)  
Import And Export Goods Inspection  
And Certification Institutions



强制性产品认证 (CCC)  
指定实验室  
China Compulsory Certification  
Designated Laboratory



CQC委托检测实验室  
CQC commissioned testing laboratory



国际电工委员会 (IECEE)  
认可实验室  
International Electrotechnical  
Commission (IECEE)  
Accredited Laboratory



美国实验室认可协会  
授权实验室(A2LA)  
Accredited Laboratories Of The American  
Association For  
Laboratory Accreditation (A2LA)



UL授权实验室  
UL Authorized Laboratory



美国联邦通讯委员会  
认可授权室  
Federal Communications  
Commission Authorization Laboratory



国际安全运输协会  
(ISTA) 认可实验室  
International Safe  
Transit Association (ISTA) Accredited  
Laboratory



国家级高新技术企业  
National High-tech Enterprise



新型材料与电子产品  
综合公共测试平台  
Comprehensive Public Testing Platform  
For New Materials  
And Electronic Products



绿色制造检测  
公共技术服务平台  
Green Manufacturing Testing  
Public Technology  
Service Platform



深圳市专精特新  
中小企业  
Shenzhen Specialized And Sophisticated  
Enterprises That Produce  
New And Unique Products



物联网设备检测  
公共技术服务平台  
Internet of Things Equipment  
Detection Public  
Technology Service Platform



博士后创新实践基地  
Postdoctoral Innovation  
And Practice Base



全国汽车标准化  
技术委员会  
China Auto Standardization Committee  
Members



全国集成电路标准化  
技术委员会  
National Integrated Circuit  
Standardization Technical Committee



全国无线电干扰标准化  
技术委员会  
National Radio Interference  
Standardization Technical Committee



亚马逊Amazon  
第三方卖家服务商  
Amazon Third-party Seller  
Service Provider



## 服务领域

SERVICE DOMAIN

NTEK凭借先进的检测设备,丰富的专业知识与测试经验,依据各国法规标准及客户的市场需求提供专业的测试服务,使产品符合相关法规要求,帮助客户快速获取精准测试结果,为客户提供一站式检测认证服务,助力客户顺利赢得市场。

With advanced testing equipment, abundant professional knowledge and test experience, NTEK can provide professional testing services according to national regulatory standards and customer's marketing needs. So as to help our customer's products meet the relevant regulatory requirements and get the accurate test results quickly. NTEK can truly provide one-stop certification testing services for our customers and help them successful access in the global market.



### 智能网联汽车

INTELLIGENT CONNECTED VEHICLE

- T-Box、摄像头、雷达、智能座舱、驾驶辅助、车机互联
- 电机、电控、电池、充电设施
- 车机、仪表、域控、车灯、线束、连接器
- 车身内外饰及材料
- 车规芯片, PCBA、电子元器件
- 信息安全, 功能安全、仿真测试

- T-Box, amera, radar, smart cockpit, driving assistance, car-machine interconnection
- Motor, electronic control, battery, charging facilities
- Electronic control unit (ECU), instrument panel, domain control, car lights, wiring harness, connector
- Automotive interior and exterior decoration and materials
- Automotive grade chips, PCBA, electronic components
- Information security, functional safety, simulation testing



### 智能通信

SMART COMMUNICATION

- 机器人
- IT/AV
- 物联网
- 可穿戴设备
- 商用显示
- 数码终端
- 个人防护
- 清洁电器

- Robot
- IT/AV
- Internet of things
- Wearable devices
- Commercial display
- Digital terminal
- Personal care
- Cleaning appliances
- Unmanned aeraVehicle (UAVs)
- AI products
- Mobile communication
- Smart home
- E-education
- Security product
- Pet accessories
- Environmental appliance



### 智慧能源

INTELLIGENT ENERGY

- 光伏逆变器
- 光伏电站
- 家用储能系统
- 工商储能系统
- 电池管理系统
- 充电桩
- 电子转化系统

- Photovoltaic inverter
- Photovoltaic power station
- Home energy storage system
- Industrial and commercial energy storage system
- Battery management system
- Charging pile
- Power conversion system (PCS)
- Optical storage integrated machine
- Energy storage batteries
- Mobile energy storage system
- power battery
- On-board charger (OBC)
- Charging station
- Power converter

## 智能网联汽车事业部

INTELLIGENT NETWORKING AUTOMOBILE BUSINESS DIVISION

NTEK智能网联汽车事业部成立于2013年,核心团队具有十多年汽车行业经验,以专业的测试能力及优质的服务成为国内外众多知名汽车品牌认可的第三方检测、认证、合规机构。

NTEK致力于从零部件品质到整车安全的全价值链质量保障服务研究,深度参与行业相关标准起草、编制,及时掌握法规及技术动态,积极推动汽车产品质量提升,为客户提供专业、高效的一站式解决方案。

NTEK在华南和华东分别建有大型汽车检测实验基地,致力于在智能网联、信息安全、车规芯片、汽车电子、电气性能、环境/机械可靠性和环保低碳等领域为客户提供一站式的检测、认证、失效分析和国际市场准入等质量技术研究服务。

NTEK Intelligent Connected Vehicle (ICV) Division was established in 2013. The core team has more than ten years of experience in the automotive industry. With professional testing capabilities and high-quality services, it has become a third-party testing, certification, and compliance agency recognized by many well-known domestic and foreign automotive brands.

NTEK is committed to the research of quality assurance services across the entire value chain, from component quality to vehicle safety. NTEK is deeply involved in the drafting and compilation of relevant industry standards, keeps abreast of regulatory and technical trends, actively promotes the improvement of automotive product quality, and provides customers with professional and efficient one-stop solutions.

NTEK has built large-scale automobile testing and experimental bases in South China and East China, and is committed to providing customers with one-stop testing, certification, failure analysis, international market access and other quality technology research services in the fields of intelligent networking, information security, automotive chips, automotive electronics, electrical performance, environmental/mechanical reliability, and environmental protection and low carbon.



# 汽车电子实验室

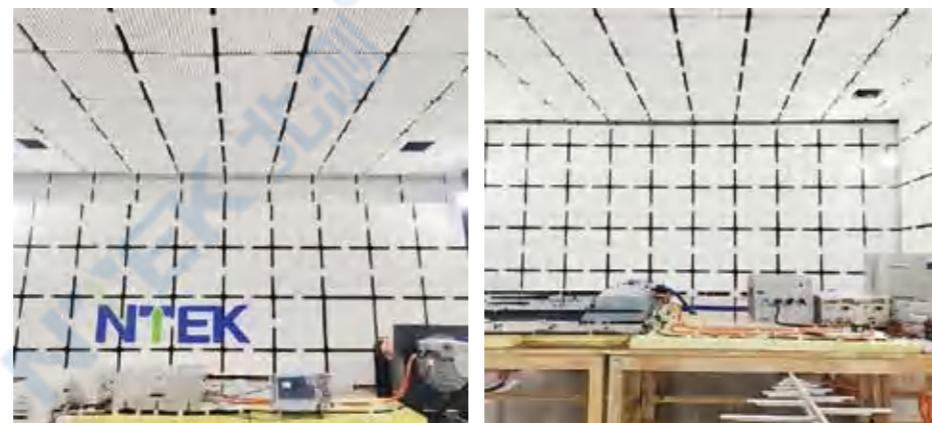
## AUTOMOTIVE ELECTRONICS LAB

汽车电子实验室具备全套EMC和电性能测试能力，深圳和上海共有20间电波暗室，配备穿墙式电机带载台架（台架最高转速10000rpm转，转矩600N.m，最大功率210kw）以及大功率电波暗室滤波器，暗室预留冷却系统搭配有风冷和水冷（15L-100L/min的工业冷水机）用于大功率产品或负载的降温冷却。

Automotive Electronics Laboratory has a full set of EMC and electrical performance testing capabilities. There are 20 anechoic chambers in Shenzhen and Shanghai, equipped with through-wall motor-loaded benches (maximum speed of the bench is 10000rpm, torque 600N.m, maximum power 210kw) as well as high-power anechoic chamber filters, the anechoic chamber reserved cooling system is equipped with air cooling and water cooling (15L-100L/min industrial chiller) for cooling of high-power products or loads.

### 测试项目 / Test Items

- 辐射发射
- 辐射抗扰
- 瞬态传导抗扰
- 参考接地和供电偏移
- 工作电流、电压检测
- 绝缘耐压
- 抛负载
- Radiated emissions
- Radiated immunity
- Transient conducted immunity
- Ground reference and supply offset
- Operating current & Voltage detection
- Withstand isolation voltage (VISO)
- Load dump
- 传导发射
- 大电流注入
- 低频磁场抗扰
- 供电电压瞬时下降
- 过电压试验
- 反向电压
- Conducted emission
- Bulk current injection
- Low frequency magnetic field immunity
- Voltage drop testing
- Overvoltage test
- Reverse voltage
- 瞬态传导发射
- 便携式发射机抗扰
- 静电放电抗扰
- 电压骤降
- 复位性能
- 短路保护
- 叠加交流电压
- Transient conducted emission
- Portable transmitter immunity
- Electrostatic discharge immunity
- Voltage sag
- Reset performance at voltage drop
- Short circuit protection
- Superimposed alternating voltage
- 高压使用寿命
- 系统高压电压纹波
- 产生的高压电压纹波
- 系统高压电压动态
- 产生的高压电压波动
- High voltage service life
- System high voltage ripple
- Voltage ripple from high voltage generation
- System high voltage dynamics
- The high voltage fluctuations generated



# 可靠性实验室

## RELIABILITY LAB

可靠性实验室在深圳、昆山分别建有测试基地，现有工程师100余人，核心团队均有十年以上行业经验。实验室配备各类环境箱350余台套、振动台20台套，为汽车、电子电器、轨道交通、航空航天、储能、新材料等领域提供产品可靠性检测和验证服务。

Reliability Laboratory has test bases in Shenzhen and Kunshan, with more than 100 engineers and a core team of more than 10 years of industry experience. The laboratory is equipped with more than 350 sets of various types of environmental chambers and 20 sets of vibration equipment, which provide product reliability testing and validation services for the fields of automotive, electronics and electrical appliances, rail transportation, aerospace, energy storage, new materials and so on.



### 环境类 / Environment

- 高低温存储  
High and low temperature storage
- 耐霉变  
Resistance to mildew growth
- 湿热交变  
Temperature cycling tests
- K15冷凝  
K15 Condensation test
- 快速温变  
Rapid change of temperature
- 低气压  
Low air pressure
- 冷热冲击  
Thermal shock
- 氙灯老化  
Xenon-arc lamps
- 冷水机模拟  
Chiller simulation
- 紫外老化  
Fluorescent UV lamps
- 臭氧  
Ozone
- 阳光模拟（卤素灯）  
Solar radiation test
- 冷凝水  
Condensation water

### 机械类 / Mechanics

- 机械振动  
Mechanical vibrations
- 机械冲击  
Mechanical shock
- 碰撞  
Bump
- 自由跌落  
Free fall
- 强度与刚度  
Strength and stiffness
- 疲劳耐久  
Fatigue endurance
- 非标定制测试  
Non-standard customised testing

### 防护类 / Protection

- 防尘防水  
Protection against water and dust
- 冰水冲击  
Cold water shock tests
- 砂石冲击  
Stone impact test
- 盐雾腐蚀  
Salt mist
- 气体腐蚀  
Flowing mixed gas corrosion test
- 化学试剂腐蚀  
Chemical reagent corrosion

# 材料实验室

MATERIAL LAB

材料实验室在深圳、昆山分别建有材料测试基地，现有工程师80余人，其中高级工程师4人，参与全国标准化技术委员4个（TC15、TC48、TC185 和TC252），参与起草国标、行标30余项，为塑料、橡胶、皮革、油漆、电镀、金属、复合材料等提供优质的研发与质量控制服务。

Material Laboratory has material testing bases in Shenzhen and Kunshan respectively, with more than 80 engineers, including 4 senior engineers, 4 national standardisation technical committee members (TC15, TC48, TC185 and TC252), participating in the drafting of more than 30 national and industrial standards, providing high-quality R&D and quality control services for plastics, rubbers, leathers, paints, electroplating, metals, composites materials, etc.



## 环保与健康 / Environment & Health

- 整车RRR  
Vehicle type approval RRR
- ELV  
ELV
- 石棉  
Asbestos
- PAHs  
PAHs
- REACH  
REACH
- 邻苯二甲酸酯  
PAES
- VOC  
VOC
- 气味  
Odour
- 雾化  
Fogging
- POPs  
POPs
- PFAS  
PFAS
- GADSL  
GADSL

## 材料物性 / Physical Properties

- 拉伸  
Tensile
- 弯曲  
Flexural
- 冲击  
Impact
- 熔点  
Melting point
- 熔融指数  
Melting flow index
- 维卡、热变形  
Vicat softening temperature(VST),  
Heat deflection temperature(HDT)
- 膜厚  
Film thickness
- 硬度  
Hardness
- 摩擦  
Friction
- 刮擦  
Scratching
- 显微组织  
Micro structure
- 介电常数  
Dielectric and resistive

## 材料失效分析 / Material Failure Analysis

- 红外测试  
Infrared analysis
- DSC分析  
DSC analysis
- TGA分析  
TGA analysis
- 切片分析  
Slice analysis
- 断裂分析  
Fracture analysis
- 异物成分分析  
Foreign matter component analysis
- 形貌微观分析  
Morphology analysis

# 车规电子元器件实验室 AEC-Q

AUTOMOTIVE ELECTRONIC COMPONENTS LAB

车规电子元器件实验室主要聚焦车用电子元器件产品质量检测及认证。为元器件供货商和使用方提供产品符合车辆应用工况的AECQ检测报告及认证证书。

The Automotive Electronic Components Laboratory mainly focuses on the quality testing and certification of automotive electronic components, providing component suppliers and users with AECQ test reports and certification certificates that prove their products meet vehicle application conditions.



## 业务模块 Business Module

AEC-Q100检测认证  
AEC-Q100 test certification

AEC-Q101检测认证  
AEC-Q101 test certification

AEC-Q102检测认证  
AEC-Q102 test certification

AEC-Q103检测认证  
AEC-Q103 test certification

AEC-Q104检测认证  
AEC-Q104 test certification

AEC-Q200检测认证  
AEC-Q200 test certification

车用线束连接器  
Automotive wire connectors

## 主要检测内容 Main Test Content

集成电路芯片(MCU、电控芯片、存储芯片、传感芯片、通讯芯片)  
Integrated Circuits (MCU, electronic control chip, storage chip, sensor chip, communication chip)

半导体分立器件(二极管、三极管、MOSFET、IGBT、sic、GaN)  
Discrete Semiconductors (Diodes, triode, MOSFETs, IGBTs, SiC, GaN)

光电半导体(LED、Laser、VCSEL)  
Discrete Optoelectronic Semiconductors (LED, Laser, VCSEL)

微机电系统(MEMS压力传感器、MEMS麦克风)  
Micro Electro-Mechanical System (MEMS) (MEMS pressure sensor, MEMS microphone)

MCM多芯模组(SIP, COB, 50C)  
Multichip Modules (MCM) (SIP, COB, SOC)

无源器件(电阻、电容、电感、变压器、晶振、陶瓷共鸣器、保险丝、滤波器)  
Passive Components (Resistors, capacitors, inductors, transformers, crystal oscillators, ceramic resonators, fuses, filters)

连接器(高压高频连接器、线束端子)  
Connectors (high voltage high frequency connectors, wire terminals)

# 信息安全实验室

CYBER SECURITY

信息安全实验室检测范围涵盖数据安全、网络安全、物理安全、隐私安全、应用安全、安全管理等多个方面。通过测试与评估确保汽车整车、汽车智能网联部件、物联网、通信、智能家居、网络硬件等产品处理、传输与存储的数据信息免受未经授权的进入、使用、披露、破坏、修改、检视、记录和销毁。

Detection scope of cyber security laboratory covers data security, network security, physical security, privacy security, application security, security management and other aspects. Through testing and evaluation to ensure the data processing, transmission and storage of automobiles, automotive intelligent network components, Internet of Things, telecommunication, smart home, network hardware and other products from unauthorized access, use, disclosure, destruction, modification, record and erase.

## 产品范围 / Product Scope

车载网关、车载通信T-Box、车载信息娱乐系统、域控制器、诊断接口、蓝牙/WiFi通信产品、2G/3G/4G/5G手机/平板、智能家居、物联网、智能机器人、无人机、可穿戴设备等。

Car gateway, car T-BOX, vehicle information entertainment system, domain controller, diagnostic interface, Bluetooth/WiFi wireless product, 2G/3G/4G/5G mobile phone/tablet, smart home, Internet of Things, smart robots, drones, wearable devices etc.

## 测试项目 / Test Items

- 系统漏洞安全
- 远程控制安全
- 外部接口安全
- 防非授权操作安全
- 敏感个人信息保密性
- 车内安全区域隔离安全
- System vulnerability
- Remote control safety
- External interface security
- Security against unauthorised manipulation
- Confidentiality of sensitive personal information
- In-vehicle security zone isolation
- 恶意数据识别安全
- 在线升级安全
- 敏感个人信息防泄露
- 密码爆破
- 漏洞扫描
- 渗透测试
- Malicious data identification security
- Online upgrade security
- Sensitive personal information protection
- Password crack
- Vulnerability scanning
- Penetration testing

## 相关标准 / Relative Standard

- GB/T 40855-2021
- GB/T 40856-2021
- GB/T 40857-2021
- GB 44495-2024
- UN WP.29 R155
- ETSI EN 303 645
- EN 18031-1
- EN 18031-2
- EN 18031-3



信息安全测试系统  
CYBER SECURITY TEST SYSTEM



便携式测试工具箱  
PORTABLE TEST KITS



零部件渗透测试工具  
COMPONENT PENETRATION TESTING TOOLS



第三方测试工具  
THIRD-PARTY TESTING TOOLS

# 智能通信事业部

INTELLIGENT COMMUNICATION DIVISION

NTEK智能通信事业部具有20余年的发展历史，具备完善的电子电气产品的检测能力，在华南、华东分别建有大型的EMC/RF检测中心，配备多套十米法电波暗室和3米法电波暗室，及其它先进的检测设备；我们建有：EMC/RF/SAR实验室、安规和能效等实验室；服务项目涵盖：电磁兼容检测、无线射频检测、安全检测、能效检测等系列测试服务以及各国认证服务。

NTEK也获得了中国CNAS、CMA、CCC、CQC，美国A2LA、FCC，加拿大IC、CSA，德国TUV等认可资质。为各类电子电气产品的客户提供全产品全生命周期的质量解决方案，及系列产品检测认证服务，包括信息技术设备、音视频设备、家用电器、物联网数据终端、机器人、智能家居、可穿戴设备、灯具等。NTEK智能通信事业部拥有专业精湛的认证服务团队和各技术领域的专家，可以协助各类电子电气制造商快速高效地满足产品销售所在地的法律法规要求，帮助企业产品快速行销全球市场。

With a history of more than 20 years of development, the Intelligent Communication Division of NTEK has complete detection capabilities of electronic and electrical products. It has built large-scale EMC/RF testing centers in South China and East China, equipped with several sets of 10-meter anechoic chambers and 3-meter anechoic chambers, as well as other advanced testing equipment. We have EMC/RF/SAR laboratories, safety and energy efficiency laboratories; Services include: electromagnetic compatibility testing, radio frequency testing, safety testing, energy efficiency testing and other test services as well as national certification services.

NTEK has also obtained CNAS, CMA, CCC, CQC in China, A2LA, FCC in the United States, IC, CSA in Canada, TUV in Germany and other accredited qualifications. We provide quality solutions for all kinds of electrical and electronic products, including information technology equipment, audio and video equipment, household appliances, Internet of Things (IoT) data terminals, robots, smart homes, wearable devices, lamps, etc. We also offer a wide range of certification services for all kinds of electrical and electronic products. NTEK Intelligent Communication Division has a professional and exquisite certification service team and experts in various technical fields, which can assist all kinds of electrical and electronic manufacturers to quickly and efficiently meet the legal and regulatory requirements of the places where their products are sold, and help them to quickly market their products in the global market.

## 我们的认证服务 / Our Certification Services

### 一站式认证解决方案:

本土测试，全球发证，基于一次测试一套报告申请多个国家的产品认证证书，少数预测合格送当地测试后获得产品认证证书。

### 直接与各国监管机构交流合作:

与监管机构交流政策法规要求，直接获取各国监管机构的认可资质，直接认可北测的检测报告。

### 国际产品测试:

根据目标国的标准开展产品测试，出具安规、EMC、无线等检测报告或预测试服务。

### 技术服务:

解读全球各国贸易壁垒政策和技术法规，开展技术标准培训，定期通报最新国际认证法规变化。

### One-stop certification solution:

Local testing, global certification, applying for product certification in multiple countries based on one test and one set of reports. A few products are certified after passing the pre-test and sending them for local testing.

### Directly communicate and cooperate with regulatory authorities in various countries:

Communicate with regulatory authorities on policy and regulatory requirements, directly obtain accreditation qualifications from regulatory authorities in various countries, and recognize the test reports issued by NTEK.

### International product testing:

Test the product according to the standards of the target country and issue safety, EMC, RF and other test reports or pretesting services.

### Technical services:

Interpret trade barrier policies and technical regulations of countries around the world, carry out technical standards training, and regularly announce the latest changes in international certification regulations.



# 全球认证服务

## MAIN STREAM IDENTIFICATION SERVICE

NTEK作为国内外知名的认证检测服务机构，不断优化认证流程，精益求精，获得欧美众多主流发证机构的认证授权。致力于提供高性价比的一站式测试认证服务，为企业产品走向市场提供更大的竞争优势。

As a well-known certification and testing service organization at home and abroad, NTEK continuously optimises the certification process, strives for excellence, and obtains certification authorisation from many mainstream certification bodies in Europe and the United States. NTEK is committed to providing cost-effective one-stop testing and certification services to provide greater competitive advantages for enterprise products to the market.

<b>中国</b>	CCC、CQC、SRRC、入网许可、能效标识、节能认证、国推RoHS、质检报告
<b>北美</b>	美国FCC、UL、FDA、ETL、Energy Star、DOE、CEC、EPA、加拿大ISED、CSA、cUL、cETL、NRCAN
<b>欧洲</b>	欧盟CE、RED、MD、GS、TUV-Mark、ENEC、VDE、WEEE、英国BS、BEAB、UKCA、PSTI
<b>日本</b>	MIC、VCCI、PSE、METI、S-Mark
<b>国际</b>	CB



# 全球认证服务

## INTERNATIONAL APPROVALS—WE OFFER SERVICES WORLDWIDE

NTEK多国团队拥有丰富的经验，服务范围涵盖全球180个国家，可以帮助企业获得国际产品认可并充分了解整个过程，将其产品推向新市场。无论您的公司是处于产品开发阶段、测试阶段、认证阶段、市场营销阶段还是售后阶段，我们都会进行指导，以便您获得国外认可、国际市场准入和国际产品合规。

The experience of the NTEK multinational team, which covers 180 countries around the world, can help companies gain international product recognition and fully understand the process to bring their products to new markets. Whether your company is in product development, testing, certification, marketing or after sales, we guide you to gain foreign recognition, international market access and international product compliance.

<b>亚太 / Asia-Pacific</b> <ul style="list-style-type: none"> <li>韩国: KC,E-standby,MEPS</li> <li>越南: MIC,DOC</li> <li>巴基斯坦: PTA</li> <li>斯里兰卡: TRC</li> <li>台湾: BSMI,NCC</li> <li>印度: BIS,ISI,WPC,TEC,PESO</li> <li>新加坡: PSB,IMDA</li> <li>马来西亚: SIRIM,ST COA</li> <li>香港: HK-MARK,OFTA,香港能效</li> <li>印尼: SNI,SDPPI</li> <li>柬埔寨: ISC,MPTC</li> <li>泰国: TISI,NBTC</li> <li>文莱: ATTI</li> <li>老挝: MPT</li> <li>蒙古: CRC</li> <li>澳大利亚: SAA,RCM,GEMS,A-TICK</li> <li>巴布亚新几内亚: PNG</li> </ul>	<b>非洲 / Africa</b> <ul style="list-style-type: none"> <li>肯尼亚: KCA</li> <li>刚果(布): ARPCE</li> <li>尼日利亚: NCC,SONCAP</li> <li>坦桑尼亚: TRCA</li> <li>南非: NRCS,ICASA,SABS</li> <li>纳米比亚: CRAN</li> <li>乍得: ARCEP</li> <li>冈比亚: PURA</li> <li>布基纳法索: ARCEP</li> <li>多哥: ARCEP</li> <li>中非: ARCEP</li> <li>南苏丹: NCA</li> <li>赤道几内亚: ORTEL</li> <li>布隆迪: ARCT</li> <li>莫桑比克: INCM</li> <li>安哥拉: INACOM</li> <li>马达加斯加: ARTEC</li> <li>津巴布韦: POTRAZ</li> <li>赞比亚: ZICTA</li> <li>吉布提: MCPT</li> <li>索马里: NCA</li> <li>加蓬: ARCEP</li> <li>贝宁: ARCEP</li> <li>毛里塔尼亚: ARE</li> <li>马里: AMRTP</li> <li>尼日尔: ARCEP</li> <li>埃塞俄比亚: MCIT</li> <li>乌干达: UCC</li> <li>博茨瓦纳: BOCRA</li> <li>佛得角: ANAC</li> <li>塞内加尔: ARTP</li> <li>科特迪瓦: ARTCI</li> <li>加纳: NCA</li> <li>卢旺达: RURA</li> </ul>	<b>独联体国家 / CIS</b> <ul style="list-style-type: none"> <li>乌兹别克斯坦: TASHKENT</li> <li>乌克兰: UA RED</li> <li>亚美尼亚: PSRC</li> <li>白俄罗斯: EAC,MOC</li> <li>吉尔吉斯斯坦: KG COC</li> <li>阿塞拜疆: AZCOC</li> </ul>	<b>行业及协议认证 / Logo Mark</b> <ul style="list-style-type: none"> <li>Wi-Fi联盟认证</li> <li>蓝牙BQB</li> <li>Zigbee</li> <li>苹果MFI</li> <li>USB: QC,PD,Qi,HDMIDE等</li> <li>运营商: JATE,PTCRB,GCF等</li> <li>车机互联: Carplay, Carlife, Hi car, Android Auto等</li> </ul>
<b>中东 / Middle East</b> <ul style="list-style-type: none"> <li>阿联酋: TDRA,ECAS</li> <li>沙特阿拉伯: CITC,IECEE,SASO</li> <li>阿尔及利亚: ANF,ARPCE</li> <li>卡塔尔: CRA</li> <li>阿曼: TRA</li> <li>巴林: TRA</li> <li>约旦: TRC</li> <li>巴勒斯坦: MTIT</li> <li>以色列: MOC,SII</li> <li>突尼斯: CERT</li> <li>科威特: CITRA</li> <li>摩洛哥: ANRT</li> <li>也门: MTIT</li> <li>埃及: NTRA</li> <li>海湾: GCC,GSO</li> </ul>	<b>拉美 / South America &amp; Caribbean</b> <ul style="list-style-type: none"> <li>巴西: INMETRO,ANATEL</li> <li>哥伦比亚: CRC</li> <li>阿根廷: IRAM,ENACOM</li> <li>墨西哥: NOM,IFETEL,CONUEE</li> <li>智利: SEC,SUBTEL</li> <li>乌拉圭: URSEC</li> <li>秘鲁: MTC</li> <li>巴拉圭: CONATEL</li> <li>厄瓜多尔: ARCOTEL</li> <li>萨尔瓦多: SIGET</li> <li>阿鲁巴: DTZ</li> <li>多米尼加: INDOTEL</li> <li>哥斯达黎加: SUTEL</li> <li>牙买加: SMA</li> <li>玻利维亚: ATT</li> <li>巴巴多斯: TU</li> <li>巴拿马: ASEP</li> </ul>	<b>清关验货服务 / Government Service</b> <ul style="list-style-type: none"> <li>阿尔及利亚COC</li> <li>埃塞俄比亚COC</li> <li>沙特阿拉伯COC</li> <li>摩洛哥COC</li> <li>肯尼亚COC</li> <li>加蓬COC</li> <li>科特迪瓦COC</li> <li>尼日利亚COC</li> <li>埃及COC</li> <li>苏丹共和国COC</li> </ul>	

不要陷入国内外市场准入的混乱之中。让NTEK帮助您。我们致力于在产品发布的所有阶段协助制造商。

Don't get caught up in the chaos of domestic and foreign market access. Let NTEK help you. NTEK committed to assisting manufacturers at all stages of product launch.

# 电磁兼容及无线实验室

## ELECTROMAGNETIC COMPATIBILITY AND WIRELESS LAB

电磁兼容及无线实验室建有符合ANSI及CISPR标准要求的10米法电波暗室1间，3米法半电波暗室4间，3米法全电波暗室2间，屏蔽室6间，蓝牙/WiFi射频测试系统，2G/3G/4G/5G射频测试系统，SAR(比吸收率)测试系统，配备完整的电磁兼容及射频测试设备。

The EMC&RF laboratory has one 10m SAC(Semi Anechoic Chamber), four 3m SAC, two 3m FAC(fully anechoic chambers), six shielded chambers, Bluetooth/WiFi RF test system, 2G/3G/4G/5G RF test system, SAR (Specific absorption rate) test system that meet the requirements of ANSI and CISPR standards, and is equipped with complete electromagnetic compatibility and RF test instruments.

### 产品范围 / Product Scope

蓝牙/WiFi通信产品、移动通信(2G/3G/4G/5G NR)、信息技术、智能家居、灯具照明、工科医设备、电力电子、车载通信、物联网、智能机器人、无人机、可穿戴设备、电子玩具等。

Bluetooth/WiFi wireless products, mobile telecommunications (2G/3G/4G/5G NR), information technology, smart home, lighting, ISM equipment, electricity product, onboard telecommunications, Internet of Things, intelligent robots, drones, wearable devices, and electronic toys etc.

### 测试项目 / Test Items

- |   |                                     |                              |   |
|---|-------------------------------------|------------------------------|---|
| ④ 传导骚扰电压                                    | ④ 辐射抗扰度                             | ④ 射频输出功率                     | ④ 接收灵敏度                                       |
| ④ 辐射骚扰                                      | ④ 电快速脉冲群                            | ④ 功率谱密度                      | ④ 接收阻塞  |
| ④ 骚扰功率                                      | ④ 浪涌抗扰度                             | ④ 有效辐射功率                     | ④ 临近频道选择性                                     |
| ④ 辐射功率                                      | ④ 传导抗扰度                             | ④ 临近频道功率                     | ④ 接收杂散  |
| ④ 谐波电流                                      | ④ 工频磁场                              | ④ 频道占用带宽                     | ④ 自适应性  |
| ④ 电压波动和闪烁                                   | ④ 电压跌落                              | ④ 临近频道功率泄漏比                  | ④ 动态频率选择                                      |
| ④ 静电放电                                      | ④ 振铃波抗扰度                            | ④ 频率稳定度                      | ④ 电磁波吸收比率(SAR)                                |
| ④ Conducted emission                        | ④ Electromagnetic field immunity    | ④ 杂散发射                       | ④ 网络安全  |
| ④ Radiated emission                         | ④ Electrical fast transient/burst   | ④ RF output power            | ④ Receiver sensitivity                        |
| ④ Disturbance power                         | ④ Surge immunity                    | ④ Power spectral density     | ④ Receiver blocking                           |
| ④ Radiated power                            | ④ Conducted immunity                | ④ Effective radiated power   | ④ Receiver adjacent channel Selectivity (ACS) |
| ④ Harmonic currents                         | ④ Power frequency magnetic field    | ④ Adjacent channel power     | ④ Receiver spurious emissions                 |
| ④ Voltage changes, fluctuations and flicker | ④ Voltage dips, short interruptions | ④ Occupied channel bandwidth | ④ Adaptivity                                  |
| ④ Electrostatic discharge                   | ④ Ring wave immunity                | ④ ACLR                       | ④ Dynamic frequency selection (DFS)           |
|   |                                     | ④ Frequency stability        | ④ SAR Test                                    |
|   |                                     | ④ Spurious emissions         | ④ Internet security                           |

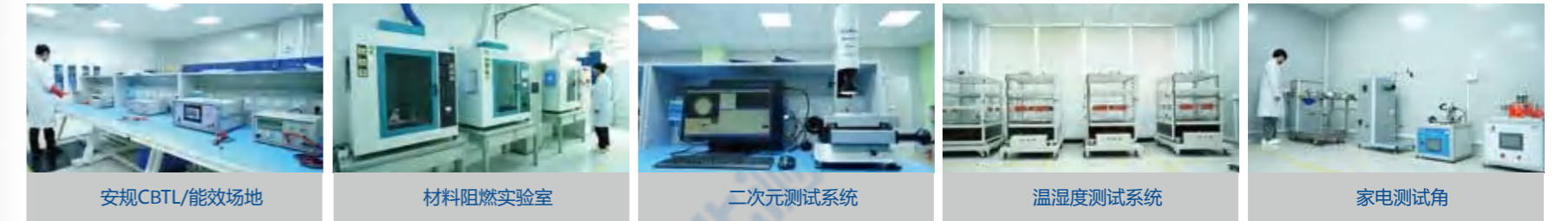


# 安全能效实验室

## SAFETY & ENERGY EFFICIENCY

安全实验室拥有完善的测试设备和经验丰富的技术人员，严格按照ISO/IEC 17025运行，已获得CNAS、CMA、A2LA等认可或授权资质，是国际电工委员会IEC认可的CBTL实验室，并与国内外权威认证机构如CQC, UL, TUV, ITS, Eurofins等建立了良好的合作关系。

The safety laboratory has perfect test equipments and experienced technical personnel. It runs strictly in accordance with the ISO/IEC 17025 and has obtained CNAS, CMA, A2LA and other recognition or authorization qualifications. It is the CBTL laboratory recognized by the IEC(International Electricity Commission). Established a good cooperative relationship with domestic and foreign authoritative certification agencies such as CQC, UL, TUV, ITS, EUROFINS, etc.



### 产品类别 / Product Category

- |            |                                      |
|------------|--------------------------------------|
| ④ IT/AV产品  | ④ IT/AV appliances                   |
| ④ 家电产品     | ④ Household electrical appliances    |
| ④ 灯具及配件产品  | ④ Lighting and attachment appliances |
| ④ 智能开关及控制器 | ④ Smart switch and controller        |
| ④ 电源产品     | ④ Power supply                       |
| ④ 电器附件     | ④ Electrical attachment              |
| ④ 能效产品     | ④ Energy-efficient product           |
| ④ 机械设备     | ④ Mechanical equipment               |

### 相关标准 / Relative Standard

- ④ EC/UL/AS/CSA/J/BS/EN 62368-1, GB 4943.1:2022
- ④ IEC/UL/AS/CSA/J/BS/EN 60335-1及系列子标准
- ④ IEC/AS/J/BS/EN 60598-1及系列子标准, IEC/AS/J/BS/EN 61347-1及系列子标准, GB 19510.1及系列子标准等
- ④ IEC/EN 60669-1及系列子标准, GB 16915.1及系列子标准, IEC 60730-1及系列子标准, GB 14536.1及系列子标准等
- ④ IEC/AS/J/BS/EN 61558-1及系列子标准
- ④ IEC 60884-1及系列子标准, GB 1002, GB 2099, EN 50075, BS1363等
- ④ IEC/BS/EN 62087-1及系列子标准, BEN/EN 50563, BS/EN 50564, DOE/CEC, AS/NZS 4665.1, AS/NZS 4665.2等
- ④ IEC/EN/AS 60204-1, GB 7260.1等

### 测试项目 / Test Items

- |          |         |        |                                   |                                  |
|----------|---------|--------|-----------------------------------|----------------------------------|
| ④ 电气安全   | ④ 有害气体  | ④ 关机功率 | ④ Electrical safety               | ④ Light/Acoustic radiation       |
| ④ 能量危险   | ④ 腐蚀防锈  | ④ 维持功率 | ④ Energy hazard                   | ④ Environmental performance      |
| ④ 材料阻燃防火 | ④ 光/声辐射 | ④ 年功耗等 | ④ Material flame retardant fire   | ④ Power on                       |
| ④ 绝缘性能   | ④ 环境性能  | ④ 开机功率 | ④ Resistant insulation            | ④ Power standby                  |
| ④ 机械伤害   | ④ 功能安全  | ④ 待机功率 | ④ Mechanical injury               | ④ Power off                      |
| ④ 高温耐热   |         |        | ④ High temperature resistant heat | ④ Power maintenance              |
|          |         |        | ④ Hazardous gas                   | ④ Annual power consumption, etc. |
|          |         |        | ④ Resistant corrosion rust        | ④ Functional safety              |

# 智慧能源事业部

## INTELLIGENT ENERGY BUSINESS DIVISION

风能、太阳能、水能、生物质能、地热能和海洋能等资源发展迅速。而随着这类可再生能源的广泛接入电网，对这类新能源的管理和应用的技术要求也越来越高，储能技术，以及以光储充一体为代表的实现自发自用的可再生能源系统必将得到更广泛的推广和应用。

Wind energy, solar energy, hydro energy, biomass energy, geothermal energy and ocean energy are developing rapidly. With the extensive access to the grid of such renewable energy, the management and application of such new energy technology requirements are also increasingly high. Energy storage technology, and the renewable energy system, which is represented by the integration of optical storage charging, will be more widely promoted and applied.



### 光、储、充一站式解决方案供应商

One-stop solution provider for photovoltaic inverters, energy storage systems, and AC/DC charging piles

### 光、储、充产品及系统的检测、认证与验收服务

Testing, certification and acceptance services for photovoltaic inverters, energy storage systems, AC and DC charging pile products and systems

### 我们的服务 / Our Services

- 检测：电气安全、EMC、环境可靠性、全球并网测试、电能质量测试、防孤岛测试、充电桩通讯协议测试、充电桩互操作性  
Testing: electrical safety, EMC, environmental reliability, global grid connection test, power quality test, anti-islanding test, charging pile communication protocol test, charging pile interoperability
- 认证：CCC、CQC、CE、CB、UL、TUV、CSA、CEC  
Certification: CCC, CQC, CE, CB, UL, TUV, CSA, CEC
- 电站验收等技术服务：光伏电站验收、工商储能系统验收、充电站验收  
Power station acceptance and other technical services: photovoltaic power station acceptance, industrial and commercial energy storage system acceptance, charging station acceptance

# 光、储、充电实验室

## ELECTRICAL LAB FOR PHOTOVOLTAIC STORAGE CHARGING

光储充电实验室配备了以充电桩、光伏逆变器、户用和工商储系统为主的大功率电力电子产品检测能力，为客户提供电气安全、环境可靠性、光伏及储能并网、通信协议和互操作性等项目测试。

Electrical lab for photovoltaic storage charging is equipped with large power electronic products testing capabilities, mainly charging piles, photovoltaic inverters, household and industrial and commercial storage systems, to provide customers with project tests such as electrical safety, environmental reliability, photovoltaic and energy storage grid connection, communication protocols and interoperability.

### 测试内容 / Content

#### 环境与机械可靠性

Environmental and mechanical reliability

- 高低温湿热试验
- 紫外光老化
- 防尘防水
- 盐雾
- 振动
- 跌落冲击
- High and low temperature humidity test
- UV aging
- Dust and water resistance
- Salt spray
- Vibration
- Drop & Shock

#### 光伏及储能并网

Photovoltaic and energy storage grid connection

- 电能质量适应性
- 电网适应性
- 高低电压穿越
- 防孤岛
- Power quality adaptability
- Grid adaptability
- High and low voltage ride-through
- Anti-islanding

#### 电能质量

Power quality

- 输出范围/误差测试
- 效率和功率因素
- 稳压/稳流精度
- 纹波系数
- 电压/电流谐波
- 电压波动与闪变
- 三相不平衡
- Output range/Error test
- Efficiency and power factor
- Voltage/Current regulation accuracy
- Ripple factor
- Voltage/Current harmonics
- Voltage fluctuation and flicker
- Three-phase imbalance

#### 安全

Safety

- 绝缘电阻/耐压
- 涌流试验
- 故障试验
- 接触电流
- 剩余电流
- 温升
- Insulation resistance/Withstand voltage
- Surge current test
- Fault test
- Contact current
- Residual current
- Temperature rise

#### 电动汽车充电系统安全

Electric vehicle charging system safety

- 充电接口温度保护
- 充电桩/车辆回路异常保护
- 充电桩热管理系统故障保护
- 泄放电路
- 通信超时保护
- Charging port temperature protection
- Charging pile/vehicle circuit abnormality protection
- Charging pile thermal management system fault protection
- Discharge circuit
- Communication timeout protection

#### 充电站通讯协议&互操作性

Charging station communication protocol & interoperability

- 交流充电互操作性
- 直流充电互操作性
- 充电协议一致性
- AC charging interoperability
- DC charging interoperability
- Charging protocol consistency

### 实验室配置 / Laboratory Capabilities

#### 实验室配电系统

Laboratory power system

电源和负载 Power supply and load	电流 Current	电压 Voltage	功率 Power
直流源载 DC	Max. 1200A	Max. 2000VDC	Max. 900kW
交流源载 AC	Max. 1500A	Max. 700V(L-N)	Max. 900kW

#### 环境试验系统

Environmental test system

温箱内尺寸 Inner dimensions of the temperature chamber	4.0(W)×2.5(D)×3.0(H)m
操作门尺寸 Dimensions of the operating door	4.0(W)×3.0(H)m
设备范围 Testing capability range	-40°C ~ +120°C/20% ~ 98%RH
承重 Load-bearing	5000kg



# 光、储、充EMC实验室

## EMC LAB FOR PHOTOVOLTAIC STORAGE CHARGING

光储充EMC实验室针对光储充产品，配备了大功率电源，大功率滤波器和人工网络，以及高承重十米法电波暗室，为客户提供辐射发射、传导发射、辐射抗扰、传导抗扰、静电、电快速脉冲群和浪涌等项目测试。

EMC lab for photovoltaic storage charging is equipped with large power supplies, high-power filters and artificial networks, as well as a high-load-bearing ten-meter radio wave darkroom for charging pile, photovoltaic inverter and energy storage system products, to provide customers with tests on radiated emission, conducted emission, radiated interference immunity, conducted interference immunity, static electricity, electrical fast pulse groups and surges.

### 测试内容 / Content

#### 抗扰度试验

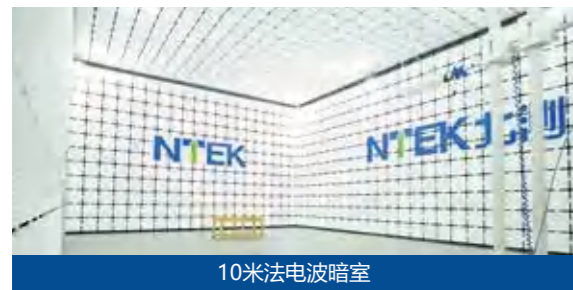
Immunity test

- ◎ 辐射抗扰: Max.30V/m 20MHz-6GHz
- ◎ 电快速脉冲群: Max.200A
- ◎ 浪涌 (冲击): Max.200A
- ◎ 传导抗扰
- ◎ Radiated immunity: Max.30V/m 20MHz-6GHz
- ◎ Electrical fast transient/burst immunity: Max.200A
- ◎ Surge immunity: Max.200A
- ◎ Conducted immunity
- ◎ 工频磁场
- ◎ 静电放电
- ◎ 交流电源电压暂降、短时中断和电压变化
- ◎ 直流电源电压暂降、短时中断和电压变化
- ◎ Power frequency magnetic field immunity
- ◎ Electrostatic discharge
- ◎ AC power voltage dips, short interruptions and voltage variations
- ◎ DC power supply voltage dips, short interruptions and voltage variations

#### 发射试验

Emissions test

- ◎ 谐波电流: Max.75A
- ◎ 电压波动和闪烁: Max.75A
- ◎ Harmonic current: Max.75A
- ◎ Voltage fluctuations and flicker: Max.75A
- ◎ 辐射发射
- ◎ 传导发射
- ◎ Radiated emissions
- ◎ Conducted Emissions



10米法电波暗室



### EMC实验室能力配置 / Laboratory Capabilities

#### 实验室配电系统

Laboratory power system

电源和负载 Power supply and load	电流 Current	电压 Voltage	功率 Power
直流源载 DC	Max. 1200A	Max. 2000VDC	Max. 900kW
交流源载 AC	Max. 1500A	Max. 700V(L-N)	Max. 900kW

#### 暗室配置: 10米法、3米法

Size of chamber: 10m semi anechoic chamber (SAC), 3m semi anechoic chamber (SAC)

暗室载荷 Chamber load	Max.6 tons
转台直径 Turntable diameter	Max.6 meters
移动门尺寸 Sliding door dimension	Max.3m*3m
滤波器能力 Filter capability	Max. DC: 2000VDC / 1500A Max. AC: 1200V (L-N) / 1200A

# 电池实验室

## BATTERY LAB

电池实验室严格按照ISO/IEC 17025标准建立和管理，拥有美国UL授权电池类实验室，具备UL、CBTL资质，华南物流认可的电池货物海运鉴定八家机构之一，实验室拥有丰富的电池品质改善和审厂服务经验。

The battery laboratory is established and managed strictly in accordance with ISO/IEC 17025 standards. It is a battery laboratory authorized by UL in the United States and has UL and CBTL qualifications. It is one of the eight institutions recognized by South China Logistics for battery cargo shipping appraisal. This laboratory has profound experience in battery quality improvement and factory inspection services.

### 电池产品服务 / Service For Battery Product

18650电池、TWS耳机电池、电子烟电池、平板&手机电池、锌锰电池、医疗产品电池、移动电源、圆柱体电池、智能物联网电池。

18650 battery, TWS earphone battery, E-cigarette battery, tablet & mobile phone battery, Zinc-manganese battery, Medical product battery, mobile power supply, cylindrical battery, smart IoT battery.

### 电动车两轮车及核心零部件 / Electric Vehicles/Two-wheeled Electric Vehicles And Core Components

电动滑板车、电动平衡车、电动自行车、电动山地车、电动摩托车整车服务及电动水翼板水上运动产品。

Electric scooters, electric balance bikes, electric bicycles, electric mountain bikes, electric motorcycle services and electric hydrofoil water sports products.



### 测试内容 / Content

#### 电性安全测试

Electrical Safety Testing

充电测试、放电测试、错误安装测试、反向充电测试、过充过放测试等

Charging test, Discharging test, Incorrect installation test, Reverse charging test, Overcharging and over-discharging test, etc.

#### 环境安全测试

Battery Environmental Testing

250N稳恒力测试、冲击、跌落、挤压、高空低压模拟、高温测试、模具应力消除、燃烧测试、热冲击测试、温升测试等

250N steady force test, Impact, Drop, Extrusion, High altitude low pressure simulation, High temperature test, Mold stress relief, Combustion test, Thermal shock test, Temperature rise test, etc.

#### 耐久安全测试

Battery Durability Testing

短路保护测试、过流充电保护、过温保护测试、过压充电保护、过载保护测试、耐高压测试、欠压放电保护

Short circuit protection test, Overcurrent charging protection, Overtemperature protection test, Overvoltage charging protection, Overload protection test, High voltage resistance test, Undervoltage discharge protection

#### 性能安全测试

Electrical Safety Testing

容量测试、循环寿命测试、真空手套箱

Charging test, Cycle life test, Vacuum glove box

#### BMS管理测试

BMS management test

充放电测试、容量衰退、温度变化

Charge and discharge test, Capacity decay, Temperature change

# 中心实验室

## CENTRAL LAB

中心实验室拥有先进的化学&材料检测设备和专业的人才队伍。在有毒有害物质检测（RoHS, REACH, POPs, PFAS等）、产品VOCs、材料理化指标、形貌微观观察等领域提供测试、评估、认证及培训服务，致力于从原材料品质到成品安全的全价值链质量保障服务。

中心实验室在汽车&零部件、芯片&半导体、食品接触材料、新能源产品、电子电气、生活家居等行业，为客户提供有害物质检测、质量分析、技术法规咨询与培训等一站式服务。

The central laboratory has advanced chemical and material testing equipment and a professional team. It provides testing, evaluation, certification and training services in the fields of toxic and hazardous substances testing (RoHS, REACH, POPs, PFAS, etc.), product VOCs, material physical and chemical indicators, morphology microscopic observation and so on, and is committed to providing quality assurance services from raw material to finished product for the entire industrial chain.

The central laboratory provides one-stop services, including hazardous substances testing, quality analysis, technical regulations and training in the Automotive & Parts, chips and semiconductors, food contact materials, new energy products, electronics and electrical appliances, and home furnishing industries.



# 失效分析实验室

## FAILURE ANALYSIS LAB

失效分析实验室技术团队以博士和高级工程师为主，实验室配备了扫描电镜/能谱仪（SEM/EDX），超景深3D显微镜，X-Ray和工业CT等，为航天航空、汽车、医疗、精密零部件等领域客户提供失效机理分析、显微分析、无损检测和成分分析等服务。

The technical team of failure analysis laboratory is mainly composed of doctors and senior engineers. The laboratory is equipped with scanning electron microscope/energy dispersive spectrometer (SEM/EDS), ultra-depth 3D microscope, X-Ray and industrial CT, etc., providing failure mechanism analysis, microscopic analysis, non-destructive testing, component analysis and other services for customers in the fields of aerospace, automobile, medical, precision parts, etc.



### 电子产品失效分析

#### Electronic Component Failure Analysis

- 电子元器件失效分析  
Electronic components failure analysis
- 芯片&半导体失效分析  
Chip & Semiconductor failure analysis
- PCB/PCBA失效分析  
PCB/PCBA failure analysis
- 电子辅料分析  
Electronic auxiliary material analysis
- 复现验证  
Reproducibility verification
- 外观分析  
Appearance analysis
- 电性能分析  
Electrical performance analysis
- 无损分析  
Nondestructive analysis
- 破坏分析  
Destruction analysis

### 材料及构件失效分析

#### Failure Analysis Of Materials And Components

- 开裂/断裂失效分析  
Fracture analysis
- 腐蚀失效分析  
Corrosion testing
- 涂/镀层失效分析  
Coating/plating failure analysis
- 疲劳失效分析  
Fatigue failure analysis
- 断面分析  
Cross-sectional analysis
- 表面异常失效分析  
Surface abnormality failure analysis
- 异物分析  
Foreign matter analysis
- 老化变形失效分析  
Aging deformation failure analysis

# 有害物质检测实验室

HAZARDOUS SUBSTANCE TESTING LAB

## 服务范围&测试项目 / Service Scope&Test Items

### 汽车&零部件 Automotive & Parts

VOC、气味、雾化、甲醛、邻苯二甲酸酯、PAHs、MSDS、ELV、石棉、REACH、POPs、加州65、TSCA、出口法规咨询、培训等技术服务

VOC, odor, fogging, formaldehyde, phthalates, PAHs, MSDS, ELV, asbestos, REACH, POPs, CP65, TSCA, packaging material testing and technical services

### 电子电气产品 Electronic And Electrical Products

RoHS、REACH、卤素、欧盟电池法案、POPs、WEEE、MSDS、PFAS、加州65和TSCA等

RoHS, REACH, halogens, EU battery regulations, POPs, WEEE, MSDS, PFAS, CP65, TSCA, etc.

### 食品接触材料 Food Contact Material

全面迁移、感官测试、重金属测试、VOCs、芳香胺、甲醛、氯乙烯单体、五氯苯酚等

Overall migration, sensory test, heavy metal testing, VOCs, aromatic amines, formaldehyde, vinyl chloride monomer, pentachloro-phenol, etc.

### 芯片&半导体 Chips & Semiconductors

纯度、离子含量、理化项目、粒径分布、化学结构分析、杂质分析和材料分析等

Purity, ion content, physical and chemical items, particle size distribution, chemical structure analysis, impurity analysis and material analysis, etc.

### 新能源&电池材料 New Energy & Battery Materials

粒径、比表面积、元素分析、微观形貌、磁性物质含量、电化学性能和电池鼓包气体分析等

Particle size, specific surface area, elemental analysis, microscopic morphology, magnetic material content, electrochemical properties, battery bulging gas analysis, etc.

### 生活用品&其他 Household Goods & Others

重金属、VOCs、镍释放、pH值、AZO、PAEs、OTCs、甲醛、DMFu、阻燃剂、致敏染料和微塑料等

Heavy metals, VOCs, nickel release, pH value, AZO dyes, PAEs, OTCs, formaldehyde, DMFu, flame retardants, allergenic dyes, micro plastics, etc.



# 电商管控服务

E-COMMERCE MANAGEMENT AND CONTROL SERVICES

## 质检服务 / Quality Inspection Service

为了维护消费者合法权益，进一步督促商家重视产品质量安全，淘宝、天猫商城、京东商城、拼多多、抖音电商等多家国内电商平台，亚马逊、沃尔玛、eBay、速卖通和Temu、虾皮等跨境电商平台对卖家实行准入规定，同时大多数平台对商品进行抽检，并委托认可的第三方质检机构进行检测；NTEK具有国内外的CNAS, CMA, A2LA等认可，可根据平台或者客户要求，提供相关检测或认证等技术服务，协助商家产品上架各大电商平台！

In order to safeguard the legitimate rights and interests of consumers and further urge merchants to pay attention to product quality and safety, many domestic e-commerce platforms such as Taobao, Tmall, JD.com, Pinduoduo, and Douyin, as well as cross-border e-commerce platforms such as Amazon, Walmart, eBay, AliExpress, Temu, and Shopee have implemented access regulations for sellers. At the same time, most platforms conduct random inspections on goods and entrust recognized third-party quality inspection agencies to conduct inspections; NTEK has domestic and foreign CNAS, CMA, A2LA and other accreditations, and can provide relevant testing or certification and other technical services according to platform or customer requirements, and assist merchants to list their products on major e-commerce platforms!

## 合作平台

COOPERATION PLATFORM

淘宝



抖音电商

amazon

ebay

Walmart  
沃尔玛



Shopee



# 合作伙伴

## BUSINESS PARTNER

NTEK以专业、优质的服务能力，得到了众多国内外客户（一汽、上汽、东风、北汽、广汽、比亚迪、赛力斯、理想、蔚来、小鹏、博世、宁德时代、佛瑞亚、华域、延锋、TCL、阳光电源、小米、美的、联想、HP、NEC等）和同行（TUV Rheinland、Intertek、UL、TÜV SÜD、CSA、Nemko、Eurofins、BV等）的认可，在行业建立了良好的信誉和品牌公信力。

NTEK Group has been recognized by many domestic and foreign customers ( FAW, SAIC, Dongfeng, BAIC, GAC, BYD, Seres, Li Auto, NIO, Xiaopeng Motors, Bosch, CATL, FORVIA, HUAYU, Yanfeng, TCL, Sungrow, Xiaomi, Midea, Lenovo, HP, NEC, etc. ) and peers (TUV Rheinland, Intertek , UL, TÜV SÜD, CSA, Nemko, Eurofins, BV, etc.) with professional and high-quality service capabilities, and has established a good reputation and brand credibility in the industry.



注：排名不分先后

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