



# Hunan Pushun New Energy Technology Co., Ltd.

Corporate Vision: Global leader in integrated solutions for new energy electric vehicle products

Corporate Mission: Innovative green energy create competitive products energize the world



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**01**

**Company profile**

**PART 01**

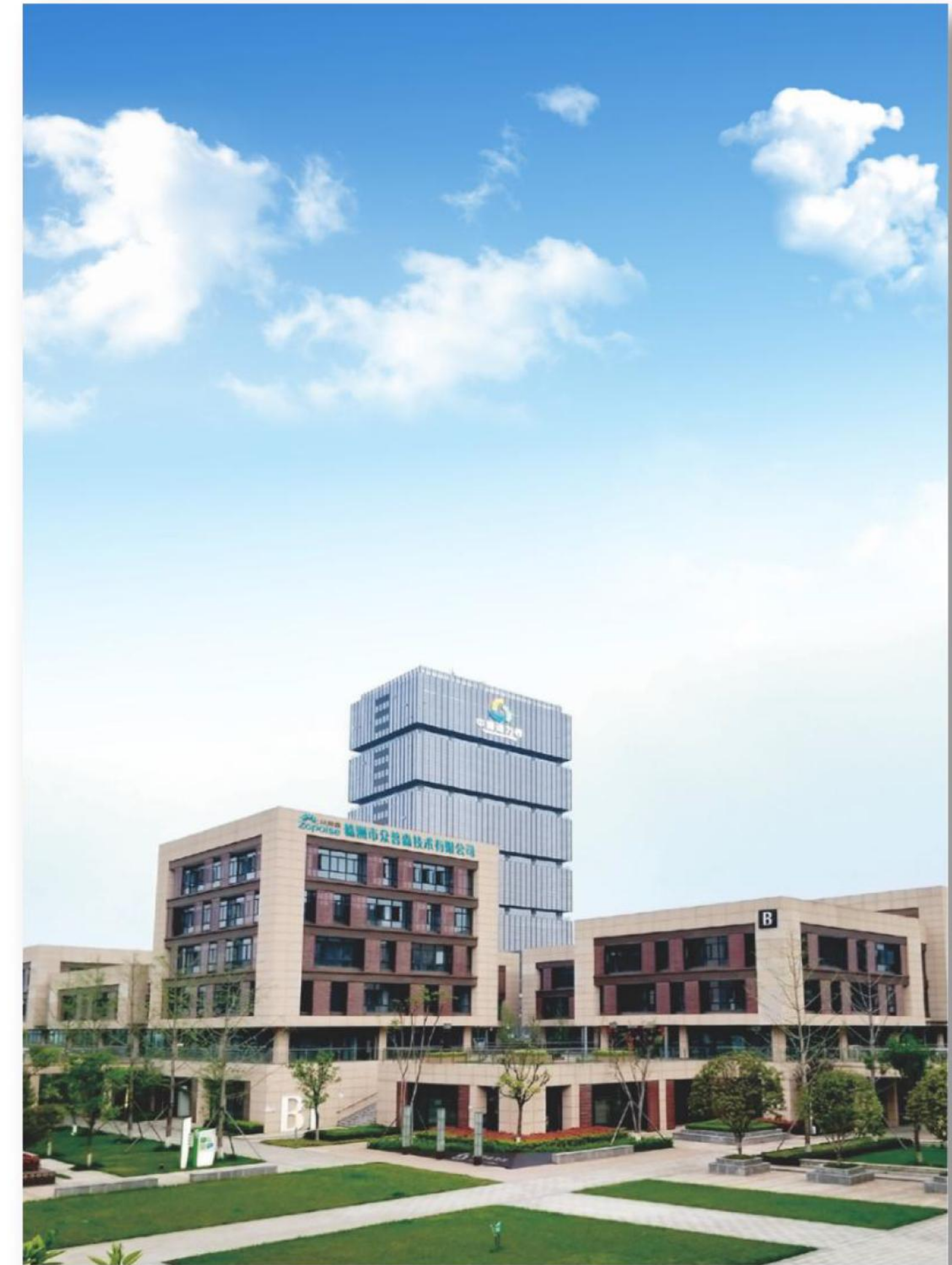


# Company profile

Hunan Pushun New Energy Technology Co., Ltd. was established in 2014 with 168 million RMB investment, existing total assets of over 500 million RMB. There are three factories in Zhuzhou, covering LED lighting products, new energy electric vehicle charging products, die-casting and sheet metal hardware accessories, etc., with subsidiaries in Shenzhen and Malaysia.

As a wholly-owned subsidiary of Hunan Pushun New Energy Technology Co., Ltd., Zhuzhou Pushun Technology Co., Ltd. was a newly established company with a registered capital of 30 million RMB independent from the Headquarter in June 2017. The company is a high-tech enterprise integrating R&D, production and sales of intelligent power supply, new energy vehicle charging pile/charger and other products.

Zhuzhou Pushun Technology Co., Ltd. has more than 500 employees, leading by core managers who have worked in power supply companies for at least 15 years, and have rich experience in charging products research and development, production and quality management. The company focuses on R&D technology innovation, there is a strong R&D team with 60 members. And joining Tsinghua University, Hunan University, Naning University of technology, Chinese Academy of Sciences and other institution of higher learning, scientific research institutes, as well as other well-known enterprises in the industry, the company has introduced mature technology and realized industrialization. The company has introduced PDM R&D management software and system. The company has built a power supply testing laboratory of 2000 square meters, which has laid a solid foundation for the reliability, safety and life of our power supply products. Our company pay attention to the investment in intelligent manufacturing, including fully automatic AI machines, SMD mounters, functional testing systems, aging systems, plug-ins and wave crest equipment. The company has passed ISO9001, ISO14001, ISO45001, IATF 16949 and other system certifications, and its management is perfect and meticulous. The company's chargers have passed EU and US certifications.



Hunan Pushun New Energy Technology Co., Ltd.  
(EV charging pile & charger, Intelligent power supply)

Pushun Technology ( Zhuzhou ) Co. , Ltd  
(Headquarter)

Zhuzhou Lizhong Refining  
(Hardware factory)

Shenzhen  
Branch

Malaysia  
Branch

# History

2014

- Hunan Pushun New Energy Technology Co., Ltd. was officially established with a registered capital of 168 million CNY;
- In May, its wholly-owned subsidiary Pushun Technology (Shenzhen) Co., Ltd was officially registered and established.

2016

- In May and September, strategic cooperation agreements were signed with China Southern Power Grid and China Railway Research Institute, respectively, and a cooperative production base was established;
- In May, Zhuzhou Lihong Precision Technology Co., Ltd. was established.

2018

- In March 2018, it acquired Lihong Refining Technology (Zhuzhou) Co., Ltd;
- In 2018, the head office increased its capital and shares to 168 million yuan;
- The company has passed the ISO9001, ISO14001, ISO45001 management system certification;
- Electric vehicle charging pile products have been launched one after another.

2020

- Became a qualified supplier for BYD;
- Became a new energy supplier for China Tower.

2022

- In July 2022, obtained IATF 16949 quality system certification;
- In September 2022, approved by Sinopec, officially joined the "EPEC" E-commerce platform.

2024

- Won the Excellent Supplier Award in China's Charging and Swapping Industry
- Won the Top 10 Competitive Brands Award in China's Charging and Swapping Industry
- Formally become a qualified supplier of Anker
- Formally become a qualified supplier of Honeywell in the United States

2015

- In March, obtained the qualification of CNAS national laboratory, UL and TÜV witness test certification;
- In September, organized the Founding Congress of Hunan Lighting Society.

2017

- In April, the parent company's capital was increased to 106.75 million CNY;
- In June, Zhuzhou Pushun Technology Co., Ltd was formally established.

2019

- Awarded "High-tech Enterprise";
- Became a qualified supplier for the Zhuzhou city government's procurement platform.

2021

- Zhuzhou Pushun Technology Co., Ltd was certified as "Hunan Little Giant Enterprise";
- Officially became a qualified supplier for State Grid Electric Vehicle Service Company, Ltd;
- Officially became a qualified supplier for Unicoba in Brazil, and Hubbell in the USA.

2023

- Won the Top Ten Quality Excellence Award in China's charging and swapping industry;
- The charging pile products have passed the export certification of TÜV, Intertek and other international testing institutions;
- The Malaysian plant successfully added a new production line for charging pile products.

**02**

# Technology and Competence

**PART 02**



# Design and development process

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# Product planning and development principles



- 01. Concept :** Advanced intelligent control, high reliability design concept, including: Reasonable intelligent control; In order to achieve more simple use; Organic combination of volume, weight, electricity and heat; Excellent reliability; Excellent energy efficiency ratio.
- 02. Appearance :** The perfect combination of fashion , simplicity and industrialization conforms to the modern aesthetic consciousness.
- 03. Structure :** Flexible and diverse structure, products are eclectic which also can be combined as a whole. furthermore, we can realize a lamp multi-purpose serial design, which is more convenient to achieve functional requirements.
- 04. Selling points :** Differentiation, specialization, innovation, systematization and providing users with more professional comprehensive solutions
- 05. Performance :** Stable and reliable power supply, reasonable circuit, in line with safety requirements.
- 06. Process :** Scientific, advanced, in line with the requirements of mass production and product consistency.
- 07. Cost :** Scientific positioning, clear cost-performance ratio

# R&D System

- The design and development of LED driver power supply ,new energy vehicle charging pile/charger etc., and the R&D application of new technology, materials, and other innovative technology power; And external application technical support and services.

Research institute  
(Technology and Scientific  
research Cooperation platform)

R&D center  
(Product and application  
service platform)

Testing center  
(Testing and certification  
service platform)

- The basic technology research of LED driver power supply ,new energy vehicle charging pile/charger etc., including material,process, structure, intelligent control, industrial design and other professional fields; And international research cooperation.

- The product safety, reliability, energy star, material and environmental protection testing LED driver power supply ,new energy vehicle charging pile/charger etc.; And certification services.

# Introduction of testing center



Testing center is mainly engaged in LED drive power supply, new energy vehicle charging pile/charger and other products for electrical performance, safety, EMC, ambient reliability, energy star, materials and environmental protection method (XRF) testing, it covers an area of more than 2,000 square meters, owns the IP grade laboratory, environmental reliable and safe lab, lamp optical lab, EMC lab, materials/chemical laboratory equipped with numerous domestic and foreign advanced testing equipment, with more than 20 million total value.

The testing center has a high-quality technical service team of nearly 30 person, with professional, preciseness, fast and considerate service concept, to provide domestic and foreign customers with comprehensive and reliable testing services of LED drive power supplies, adapter, charger and intelligent controllers, so that customers' products can be safely sold worldwide.



Meanwhile, on the basis of CNAS laboratory management system (CNAS-CL01, ISO/IEC17025), we actively introduce national, international and relevant industrial standard LED drive power supply, adapter, charger and intelligent controllers, and establish effective testing standards internally to ensure the excellent quality and high reliability requirements of the company products. It is working closely with many scientific research institutions (Peking University, Chinese academy of sciences, Fujian institute of material-tics, Shanghai university of science and technology, Central South University, etc.) for further research.

## **HONOR**

**Owned the largest experimental testing room in LED industry in central China**

**Obtained CNAS certification qualification**

**Obtained UL WTDP laboratory certification**

**Obtained TUV RH, TÜV SÜD and DEKRA laboratory certification**



## Optical laboratory

- Fast light distribution in full space
- Photochromic electrical test system for LED lamps
- Rapid analysis system for spectral color of materials
- Lighting field environment measurement system

## Electrical laboratory

- Standard shielding room
- EMI test receiver
- Three-loop antenna
- Electrostatic discharge generator
- Automatic lightning surge generator
- Point fast transient pulse group generator
- Precision power analyzer
- Harmonic analyzer
- Multi-channel oscilloscope
- Precision stabilized voltage ac/dc test power supply
- Electronic load

## Ambient laboratory

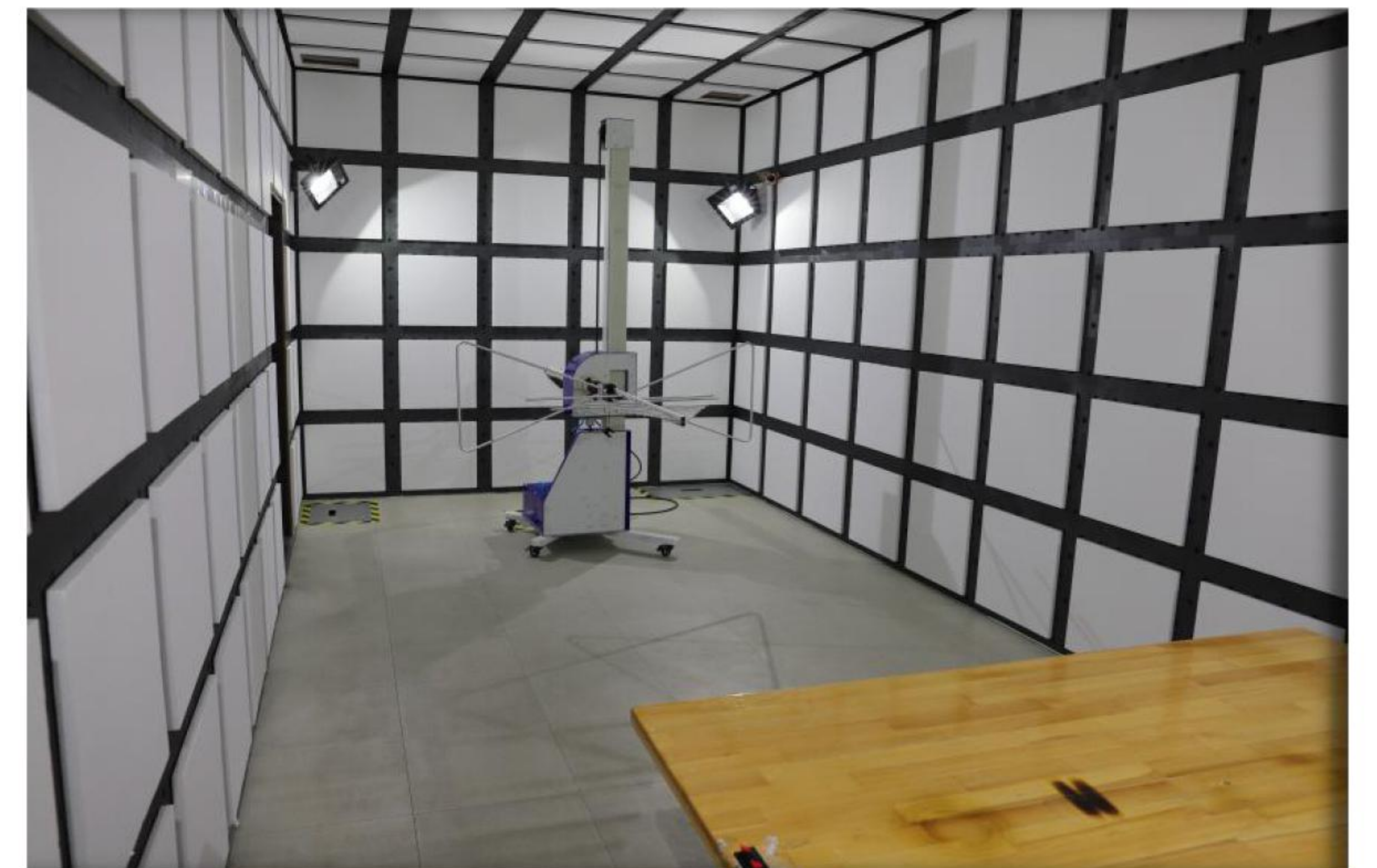
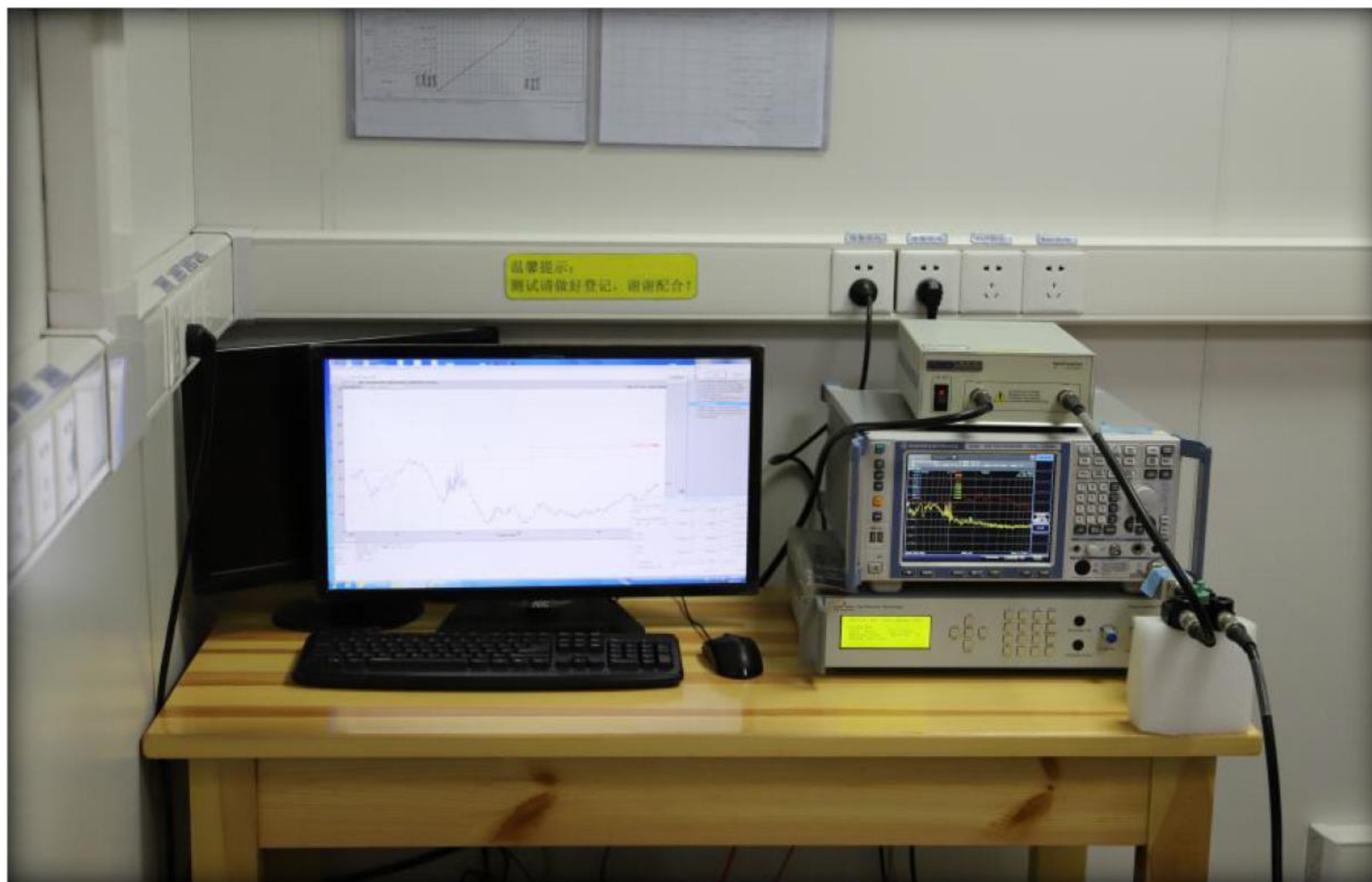
- Intelligent high and low temperature cycle test system
- Cold and heat shock test system
- Waterproof and dustproof experimental system
- Standard temperature rise test system
- LED and luminaire accelerated aging and life time testing system
- Simulated transport test machine

## Safety laboratory

- Hi-pot tester
- Insulation resistance tester
- Leakage current tester
- Leakage marking test only
- Wire bending experiment machine
- Environmental protection tester
- Hot wire combustion tester
- Needle flame tester
- Ball pressure test equipment
- UV weathering and aging test box
- Brine spray test chamber



# Equipment testing-Conducting radiation testing system





1 Safety and performance testing



2 Hi-pottester



3

Needle flame, glow-wire, leakage mark test



4

Cold and heat shock test  
Constant temperature and humidity  
High and low temperature test



5

Material ROHS test



6

Temperature rise test



7

Accelerated aging life time test





8 Thermal shock test box



9 Constant temperature and humidity test box



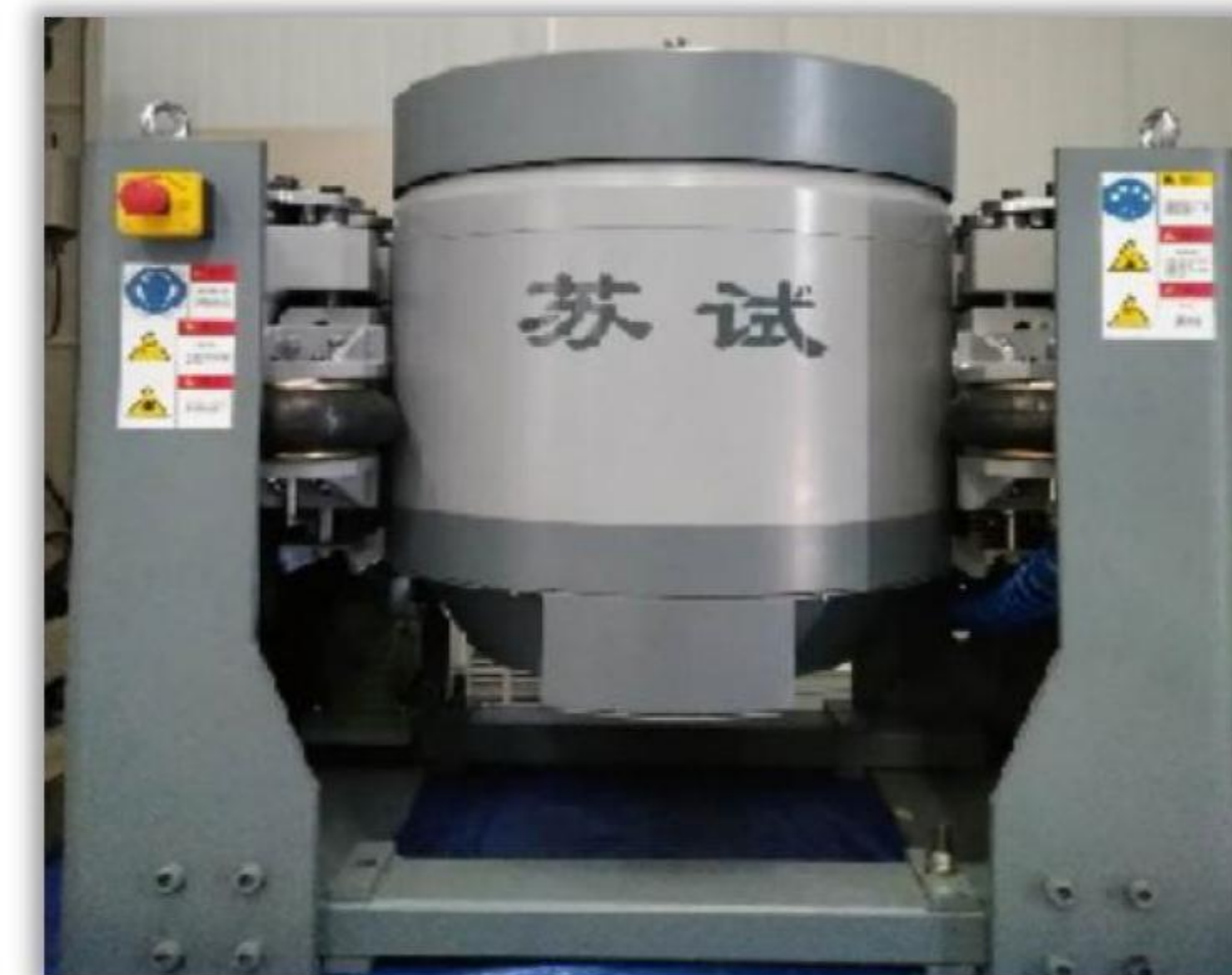
10 IPX3-7UL waterproofing tester



11 Horizontal vertical combustion tester



12 Drop test



13 Vibration test



14 UV aging test



15 Dustproofing test



16 Salt spray test

# Automatic patch production system

Automatic solder brush tin paste machine, high-speed machine, 12 temperature zone back welding furnace, using imported and domestic top brands.

The high-speed machine has a capacity of up to 30,000 points per hour and can be applied to all kinds of PCB patches



12 temperature zone back welding furnace can adjust the temperature according to the different process of the product, and meet the different process requirements

Multi-temperature zone back welding furnace temperature rise gently, good for the welding of red glue process and solder paste process



# ATE instrument configuration and testing capability

## Main test items of automatic test system

Output voltage and current accuracy

Start waveform and time

Voltage regulation

Load regulation

efficiency

Remote control

Output ripple and noise

TRIM to adjustment

Short circuit protection and recovery

Over current protection

Input under voltage protection

Boot time delay

The dynamic response

Switch overshoot

Additional test items can be added upon request of customers



Industrial computer (EVOC)

Direct-current power supply  
( Chroma62012P )

Dc electronic load (Chroma6314+63103)

Oscilloscope (Tektronix TDS2012B)

Multimeter (Fluke F45)

Note: other instruments with communication  
function can be extended

Standard configuration ATE can measure the  
range of products as follows: Power: 0-  
1200w output channels :1-4 channels  
INPUT: 0-80v OUPUT: 60v

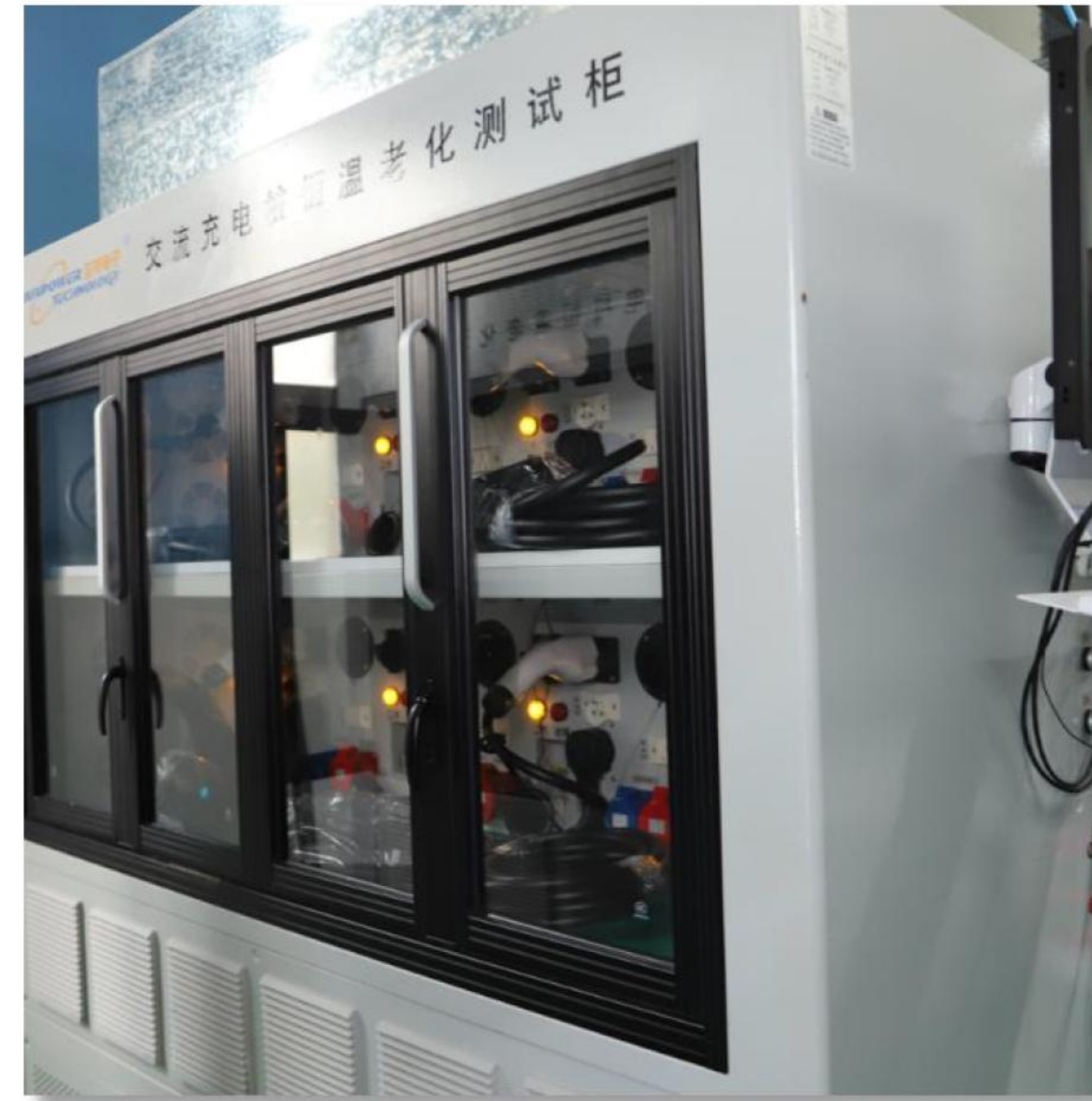


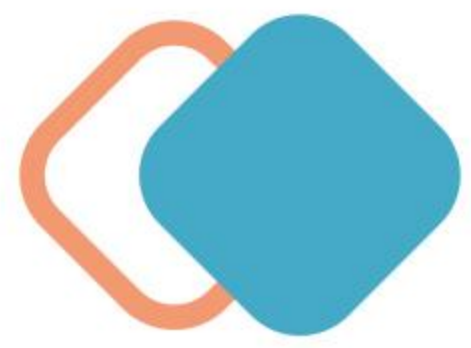
# Automatic wave soldering



# Automatic aging system

- Automatic thermostatic control can be realized
- Aging time can be adjusted according to different requirements of the product
- Aging voltage can be selected according to different requirements
- Aging time, condition and other data can be read and stored
- Real-time monitoring of aging products can be realized
- Electric vehicle charging pile/charger aging system





# Malaysia Charging Pile Production Workshop



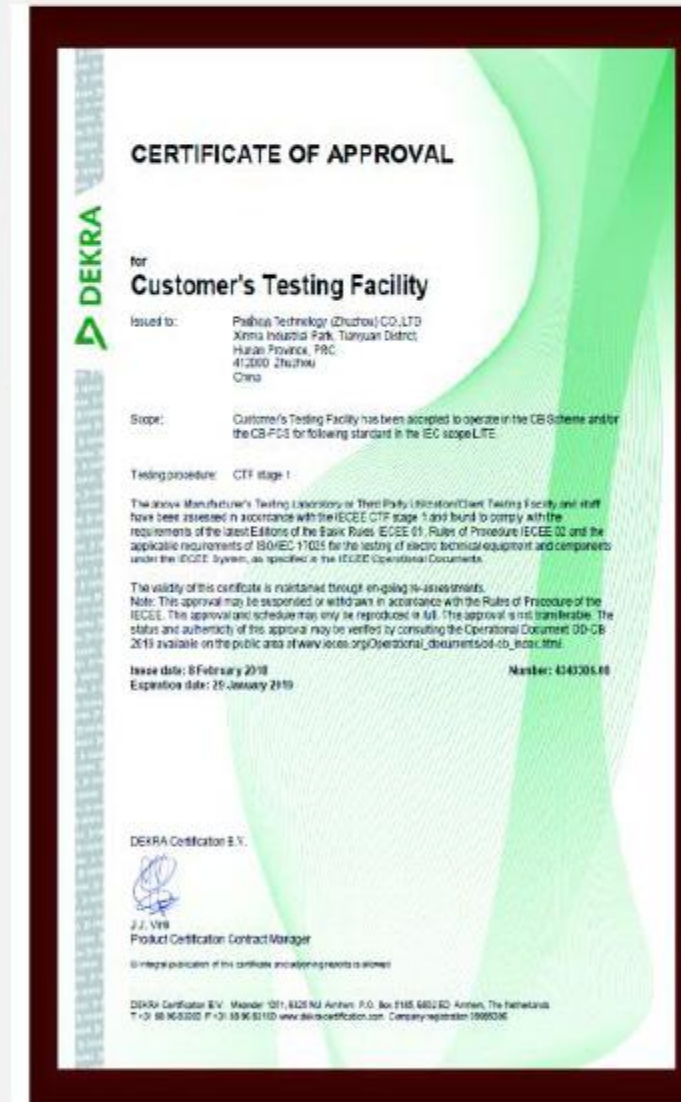
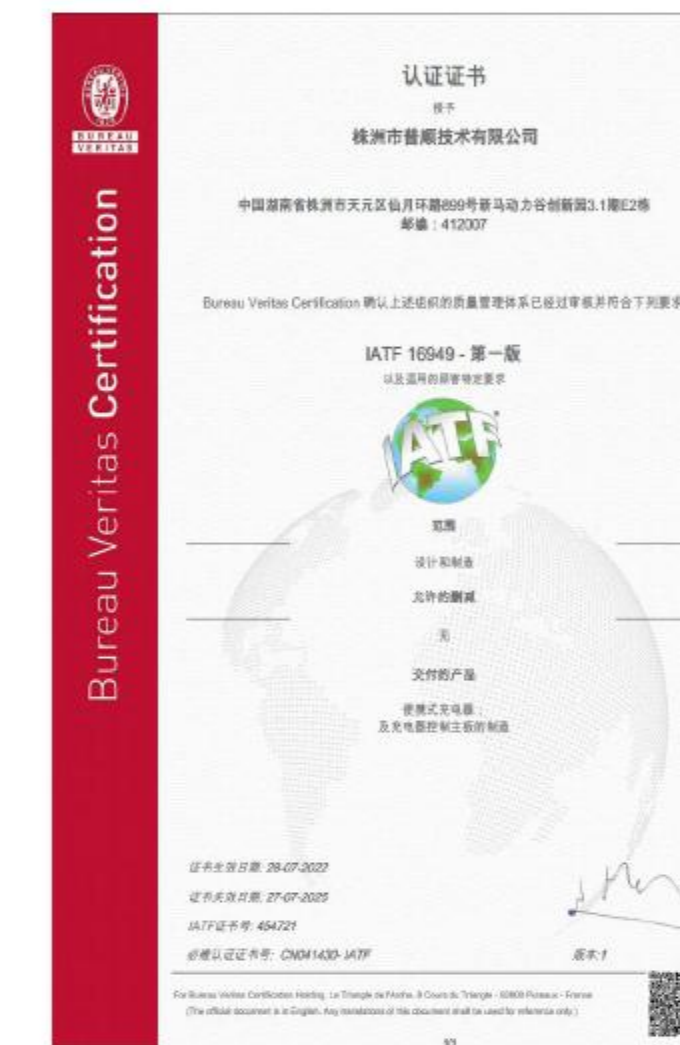
**03**

# Honor & qualification

**PART 03**



- **IATF16949 Certification Certificate**
- **UL WTDP Witness Laboratory Qualification**
- **ISO9001, ISO14001, ISO45001 Certification**
- **China Great Wall Quality Assurance Certification**
- **TÜV Witness Test Laboratory Qualification**
- **DEKRA CTF Witness Test Laboratory Qualification**
- **University-Study-Research Center**



# Certificate

Apply for 167 patents until December 2024

136 has been obtained

31 has been accepted

More than 20 new patents are applied for every year



**04**

# Quality control

**PART 04**



# Quality breakthrough model

## Level 3 Quality Prevention

- Attention to the plan,the prevention in every process
- Work closely with suppliers
- Strategy cooperation with suppliers



2

## Level 2 Quality assurance

- Introduce quality control system
- QC team has been set up, but it is not very effective

3



4

## Level 4 Quality perfection

- Customer-oriented consciousness internalization and each staff pursue consciously perfection
- Alignment with the best interests of suppliers, customers and society

## Level 1 Quality Testing

- Quality assurance through inspection
- Lack of Quality Awareness

1



# Product R&D Quality Assurance

## Manufacturability design

Design specification for manufacturability;  
Manufacturing process design and product design synchronization;  
Modular and standardized design.

## R&D team building

Strengthening the research power of basic technology of the research institute;  
Introduction of high-level, innovative design talents;  
Optimization and improvement of management methods and systems;  
Talent training and reserve.



## Production design

Effective application of design methods from initial research and development to later stage;  
Cooperate with powerful solution companies to develop cost-effective products;  
Implementation of project management;  
Effective use of design experience base;  
R&D QA implantation and management;  
Device selection engineering application;  
Intermediate pilot test verification.

## Product standardization

Set up, update, maintain and use the device library effectively;  
Modular and standardized design and development of related devices and structures;  
Standard OA system management and application.

## R&D system and process optimization

Implementation of design review, parallel and serial design review, and improvement of design review table;  
Review of project proposal: quality, cost and manufacturability;  
Design validation form content and design input and output. Current characteristics, safety requirements, lightning and EMI consistency, and comprehensive planning;  
Optimization of effectiveness of ECN management process;  
Research and design quality guarantee.

# Product certification management

## Deliver time

- 1.Product certification;
- 2.Sample inspected by CQC or quality supervision and inspection organization;
- 3.Customer specified third party tests;
- 4.In other cases, entrust a third party to test.

## Sample preparation

- 1.The consignor of test requirements shall fill in the consignee test form to explain the test purpose and test items;
- 2.Approved and confirmed by relevant leaders;
- 3.To prepare qualified samples and related data and the entrusted test form, the samples submitted to test center to number in the foreign sample parameter, state inspection center to confirm samples are in good condition (including testing), 'the related product information and the number listed in the "deliver samples of foreign information registration form", a clear product information, test purpose, test, deliver time, deliver people, contact information, when necessary, people should be provided directly or indirectly related to product manuals, installation and technical aspects of information;
- 4.The laboratory will send the sample package to the third party testing institution for testing.

## Detection process tracking

- 1.The testing center dynamically follows up the testing progress of the third party, and feeds back relevant testing information of the entrusting party;
- 2.If the test fails, the principal shall be informed within 2 hours after receiving the information;
- 3.The testing center shall establish the rectification suggestion scheme according to the unqualified rectification notice and after communicating with the third-party testing institutions;
- 4.The notice of nonconforming rectification and the proposal for rectification shall be submitted to the entrusting party;
- 5.The testing center determines the category of nonconformance and assigns it to relevant responsible departments (R&D, manufacturing, procurement) to organize nonconformance rectification;
- 6.Relevant responsible departments must submit the rectification to the testing center at the required time.

## Sample return

- 1.The testing center shall timely retrieve samples and reports from third- party testing institutions;
- 2.Check and confirm sample status, inform client to take sample and report;
- 3.The original test report shall be kept by the test center and one copy shall be submitted to the entrusting party;
- 4.Unless otherwise specified, samples shall be stored by the entrusting party.

**05**

# Product Introduction

**PART 05**



# AC Portable/Wallbox Charger

## Product Features

Strong compatibility with electric car models.

Multiple intelligent detection and protection functions.

Various charging modes with plug-and-charge, app charging, etc.

Charging methods of automatic full charging, time setting charging, etc.

Voltage & current detection and accurate power calculation.

1.3-inch OLED Screen shows standby, charging and fault status.

Four levels of current setting, equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.

Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.

FCC, ETL&CETL, IC, CE, TÜVmark certified, CQC compliant.



GB/T



Type 2



Type 1



NACS

Item	ZA05-X03K5XX-X001	ZA05-X007KXX-X001	ZA05-U09K6XX-X001
Input Voltage	AC220V±20%(CN)/AC230V±15%(EU)/AC240V±15%(US)		AC240V±15%(US)
Input Frequency	50/60Hz±1Hz		
Output Power	3.5kW	7kW	9.6kW
Current	16A	32A	40A
Current Range	8A-10A-13A-16A	16A-20A-24A-32A	16A-24A-32A-40A
Display Size	1.3 inches		
Communication	WIFI&Bluetooth		
Input Cable Length	0.5m		
Gun Cable Length	3.5m/5m/7m/7.5m		
Temperature /Humidity	-30~+50°C/5%~95%RH		
Protection	IP65		
Appearance Size	297mm×106.6mm×53.8mm		
Product Weight	<4.8KG		
Leakage Protection	Type A+DC6mA(CN, EU)/CCID20(US)		

# AC Portable/Wallbox Charger

## Product Features

Strong compatibility with electric car models.

Multiple intelligent detection and protection functions.

Various charging modes with plug-and-charge, app charging, etc.

Charging methods of automatic full charging, time setting charging, etc.

Voltage & current detection and accurate power calculation.

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FCC, ETL&CETL certified, CQC, IC, CE, TÜVmark compliant.



GB/T



Type 2



Type 1



NACS

Item	ZA08-X03K5XX-X001	ZA08-X007KXX-X001
Input Voltage	AC220V±20%(CN)/AC230V±15%(EU)/AC240V±15%(US)	
Input Frequency	50/60Hz±1Hz	
Output Power	3.5kW	7kW
Current	16A	32A
Current Range	8A-10A-13A-16A	16A-20A-24A-32A
Display Size	1.3 inches	
Communication	WIFI&Bluetooth	
Input Cable Length	0.5m	
Gun Cable Length	3.5m/5m/7m/7.5m	
Temperature /Humidity	-30~+50°C/5%~95%RH	
Protection	IP65	
Appearance Size	249.6mmx113.5mmx62mm	
Product Weight	< 4.8KG	
Leakage Protection	Type A+DC6mA(CN, EU)/CCID20(US)	

# AC Portable/Wallbox Charger

## Product Features

Strong compatibility with electric car models.

Multiple intelligent detection and protection functions.

Various charging modes with plug-and-charge, app charging, etc.

Charging methods of automatic full charging, time setting charging, etc.

Voltage & current detection and accurate power calculation.

1.9-inch LCD Screen shows standby, charging and fault status.

Four levels of current setting, equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.

Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.

ETL&CETL, FCC, TÜVmark certified.



Type 2



Type 1



NACS

Item	ZA06-U007KXX-X001	ZA06-U09K6XX-X001	ZA06-E011KXX-X001	ZA06-E022KXX-X001
Input Voltage	AC240V±15%		AC400V±15%	
Input Frequency	60Hz±1Hz		50Hz±1Hz	
Output Power	7kW	9.6kW	11kW	22kW
Current	32A	40A	16A ( 3-phase )	32A ( 3-phase )
Current Range	16A-20A-24A-32A	16A-24A-32A-40A	8A-10A-13A-16A	16A-20A-24A-32A
Display Size	1.9 inches			
Communication	WIFI&Bluetooth			
Input Cable Length	0.5m			
Gun Cable Length	5m/7m/7.5m			
Temperature /Humidity	-30~+40°C/5%~95%RH			
Protection	IP66			
Appearance Size	Length 420mm; Diameter 80mm			
Product Weight	<5.8KG			
Leakage Protection	Type A+DC6mA(EU)/CCID20(US)			

# AC Portable Charger



GB/T

## Product Features

- Strong compatibility with electric car models.
- Multiple intelligent detection and protection functions.
- Plug-and-charge authorizing mode.
- Automatic full charging.
- Voltage & current detection and accurate power calculation.
- 3-color LED indicator shows standby, charging and fault status.
- CQC certified.
- Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.

Item	ZA01-C03K5AA-X001
Input Voltage	AC220V±20%
Input Frequency	50Hz±1Hz
Output Power	3.5kW
Current	16A
Input Cable Length	0.47m
Gun Cable Length	3.5m/5m/10m/15m
Temperature /Humidity	-30~+50°C/5%~95%RH
Protection	IP65
Appearance Size	241.7mm×81mm×55.1mm
Product Weight	<3.66KG
Leakage Protection	Type A+DC6mA

# AC Portable/Wallbox Charger

## Product Features

Strong compatibility with electric car models.

Multiple intelligent detection and protection functions.

Various charging modes with plug-and-charge, app charging, etc.

Charging methods of automatic full charging, time setting charging, etc.

Voltage & current detection and accurate power calculation.

1.9-inch LCD Screen shows standby, charging and fault status.

Four levels of current setting, equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.

Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.

ETL&CETL, FCC, TÜVmark, CE, IC and CQC certification standards compliant.



GB/T



Type 2



Type 1



NACS

Item	ZA11-X03K5XX-X001	ZA11-X007KXX-X001	ZA11-U09K6XX-X001
Input Voltage	AC220V±20%(CN)/AC230V±15%(EU)/AC240V±15%(US)		AC240V±15%(US)
Input Frequency	50/60Hz±1Hz		
Output Power	3.5kW	7kW	9.6kW
Current	16A	32A	40A
Current Range	8A-10A-13A-16A	16A-20A-24A-32A	40A
Display Size	1.9 inches		
Communication	WIFI&Bluetooth		
Input Cable Length	0.5m		
Gun Cable Length	3.5m/5m/7m/7.5m		
Temperature /Humidity	-30~+50°C/5%~95%RH		
Protection	IP65		
Appearance Size	297mm×106.6mm×53.8mm		
Product Weight	<4.8KG		
Leakage Protection	Type A+DC6mA(CN, EU)/CCID20(US)		

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ETL&CETL, FCC, TÜVmark, CE, IC and CQC certification standards compliant.



GB/T



Type 2



Type 1



NACS

Item	ZA13-X03K5XX-X001	ZA13-X007KXX-X001	ZA13-U09K6XX-X001
Input Voltage	AC220V ± 20%(CN)/AC230V ± 15%(EU)/ AC240V ± 15%(US)		AC240V ± 15%(US)
Input Frequency	50/60Hz ± 1Hz		
Output Power	3.5kW	7kW	9.6kW
Current	16A	32A	40A
Current Range	8A-10A-13A-16A	16A-20A-24A-32A	16A-24A-32A-40A
Display Size	1.3 inches		
Communication	WIFI&Bluetooth		
Input Cable Length	0.5m		
Gun Cable Length	3.5m/5m/7m/7.5m		
Temperature /Humidity	-30~+50°C/5%~95%RH		
Protection	IP65		
Appearance Size	298.3mm × 105.7mm × 56mm		
Product Weight	<4.8KG		
Leakage Protection	Type A+DC6mA(CN, EU)/CCID20(US)		

# AC Portable/Wallbox Charger

## Product Features

Strong compatibility with electric car models.

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ETL&CETL, FCC, TÜVmark, CE and CQC certification standards compliant.



GB/T



Type 2



Type 1



NACS

Item	ZA17-X03K5XX-X001	ZA17-X007KXX-X001	ZA17-U09K6XX-X001
Input Voltage	AC220V ± 20%(CN)/AC230V ± 15%(EU)/ AC240V ± 15%(US)		AC240V ± 15%(US)
Input Frequency	50/60Hz ± 1Hz		
Output Power	3.5kW	7kW	9.6kW
Current	16A	32A	40A
Current Range	8A-10A-13A-16A	16A-20A-24A-32A	16A-24A-32A-40A
Display Size	1.3 inches		
Communication	WIFI&Bluetooth		
Input Cable Length	0.5m		
Gun Cable Length	3.5m/5m/7m/7.5m		
Temperature /Humidity	-30~+50°C/5%~95%RH		
Protection	IP66		
Appearance Size	298.3mm × 105.7mm × 53.9mm		
Product Weight	<4.8KG		
Leakage Protection	Type A+DC6mA(CN, EU)/CCID20(US)		

# Wallbox/Floor Mounted AC Charging Pile



GB/T



Type 2



Type 1



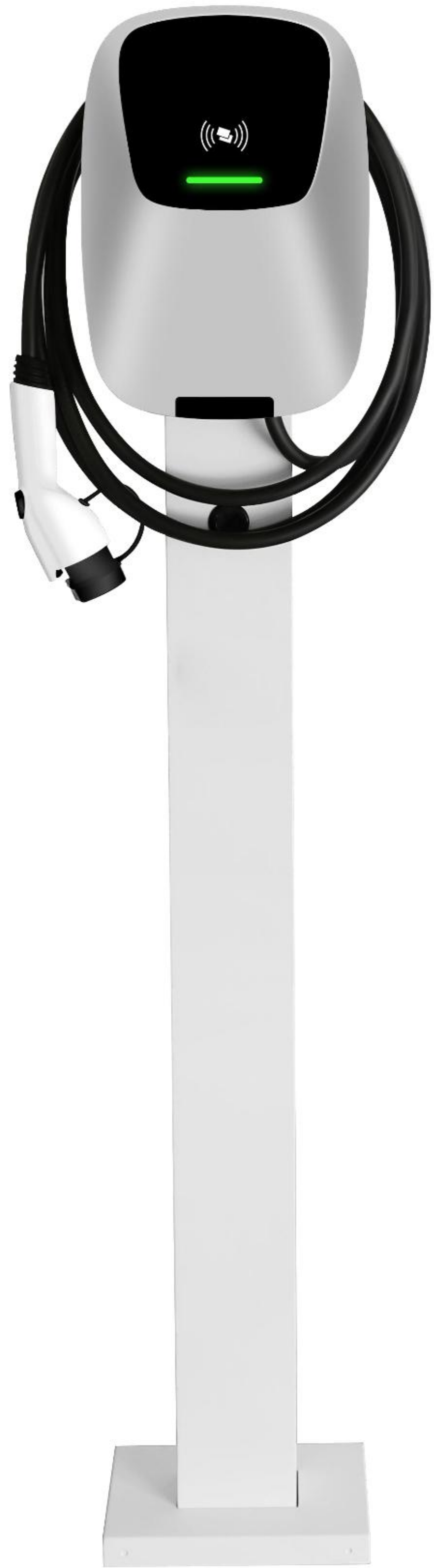
NACS

## Product Features

Strong compatibility with electric car models.  
 Multiple intelligent detection and protection functions.  
 Voltage&current detection and accurate power calculation.  
 4.3-inch LCD displays standby, charging and fault status.  
 Various authorization modes with plug-and-charge, RFID card charging, App charging, Code scanning charging, Button Reservation Charging, etc.  
 Various charging methods of automatic full charging, app charging, etc.  
 Four levels of current setting,equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.  
 Support OCPP1.6 protocol (can connect to standard OCPP platforms specified by customers)  
 Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.  
 Equipped with a load - balancing system, it auto - optimizes power distribution among multiple piles for stable operation.  
 FCC, ETL&CETL, IC, CE, TÜVmark certified, CCC compliant.

Item	ZB04-X007KXX-X001	ZB04-U09K6XX-X001	ZB04-X011KXX-X001	ZB04-X022KXX-X001
Input Voltage	AC220V±20%(CN) AC230V±10%(EU) AC240V±15%(US)	AC240V±15% (US)	AC240V±15%(US) AC380V±20%(CN) AC400V±10%(EU)	AC380V±20%(CN) AC400V±10%(EU)
Input Frequency	50/60Hz±1Hz			
Output Power	7kW	9.6kW	11kW	22kW
Current	32A	40A	48A/16A ( 3-phase )	32A ( 3-phase )
Display Size	4.3 inches(Options : LCD digital screen or digital tube)			
Communication	RFID,WIFI&Bluetooth,4G,Ethernet			
Gun Cable Length	3.5m/5m/7m/7.5m			
Temperature/ Humidity	-30~+50°C/5%~95%RH			
Protection	IP54(vehicle connertor mated with holder) IP65(vehicle connertor mated with cap)			
Appearance Size	368mm×256.5mm×130mm			
Product Weight	< 7.2KG			
Leakage Protection	Type A+DC6mA(CN、 EU)/CCID20(US)			

# Wallbox/Floor Mounted AC Charging Pile



GB/T

## Product Features

- Strong compatibility with electric car models.
- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- 3-color LED indicator shows standby, charging and fault status.
- Various authorization modes with plug-and-charge, RFID card charging, Code scanning charging, etc.
- Various charging methods of automatic full charging, reservation charging, etc.
- CQC certified.

Item	ZB03-C007KXX-X001
Input Voltage	220V±20%
Input Frequency	50Hz±1Hz
Output Power	7kW
Current	32A
Communication	WIFI&Bluetooth
Gun Cable Length	3.5m/5m/7m/10m
Temperature/ Humidity	-30~+50°C/5%~95%RH
Protection	IP65
Appearance Size	330mm×230mm×102mm
Product Weight	<3.7KG
Leakage Protection	Type A+DC6mA

# Wallbox/Floor Mounted AC Charging Pile



GB/T



Type 2



Type 1



NACS

## Product Features

- Strong compatibility with electric car models.
- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- 3-inch round LCD displays standby, charging and fault status.
- Various authorization modes with plug-and-charge, RFID card charging, App charging, Code scanning charging, Button Reservation Charging, etc.
- Various charging methods of automatic full charging, reservation charging, etc.
- Four levels of current setting,equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.
- Support OCPP1.6 protocol (can connect to standard OCPP platforms specified by customers)
- Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.
- Equipped with a load - balancing system, it auto - optimizes power distribution among multiple piles for stable operation.
- FCC, ETL&CETL certified, CQC, CE , TÜVmark compliant.

Item	ZB09-X007KXX-X001	ZB09-U09K6XX-X001	ZB09-X011KXX-X001	ZB09-X022KXX-X001
Input Voltage	AC220V±20%(CN) AC230V±10%(EU) AC240V±15%(US)	AC240V±15% (US)	AC240V±15%(US) AC380V±20%(CN) AC400V±10%(EU)	AC380V±20%(CN) AC400V±10%(EU)
Input Frequency	50/60Hz±1Hz			
Output Power	7kW	9.6kW	11kW	22kW
Current	32A	40A	48A/16A ( 3-phase )	32A ( 3-phase )
Display	3 inches round LCD screen			
Communication	RFID,WIFI&Bluetooth,4G,Ethernet			
Gun Cable Length	3.5m/5m/7m/7.5m			
Temperature/ Humidity	-30~+50°C/5%~95%RH			
Protection	IP54(vehicle connertor mated with holder) IP65(vehicle connertor mated with cap)			
Appearance Size	367.92mmx256.42mmx126.31mm			
Product Weight	< 7.2KG			
Leakage Protection	Type A+DC6mA(CN, EU)/CCID20(US)			

# Wallbox/Floor Mounted AC Charging Pile



GB/T



Type 2



Type 1



NACS

## Product Features

Strong compatibility with electric car models.

Multiple intelligent detection and protection functions.

Voltage&current detection and accurate power calculation.

3-inch round LCD displays standby, charging and fault status.

Various authorization modes with plug-and-charge, RFID card charging, App charging, Code scanning charging, etc.

Various charging methods of automatic full charging, reservation charging, etc.

Support OCPP1.6 protocol (can connect to standard OCPP platforms specified by customers)

Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.

Equipped with a load - balancing system, it auto - optimizes power distribution among multiple piles for stable operation.

ETL&CETL, FCC, TÜVmark, IC, CE, and CCC certification standards compliant.

Item	ZB08-X007KXX-X001	ZB08-U09K6XX-X001	ZB08-X011KXX-X001	ZB08-X022KXX-X001
Input Voltage	AC220V±20%(CN) AC230V±10%(EU) AC240V±15%(US)	AC240V±15% (US)	AC240V±15%(US) AC380V±20%(CN) AC400V±10%(EU)	AC380V±20%(CN) AC400V±10%(EU)
Input Frequency	50/60Hz±1Hz			
Output Power	7kW	9.6kW	11kW	22kW
Current	32A	40A	48A/16A ( 3-phase )	32A ( 3-phase )
Display	3 inches round LCD screen			
Communication	RFID,WIFI&Bluetooth,4G,Ethernet			
Gun Cable Length	3.5m/5m/7m/7.5m			
Temperature/ Humidity	-30~+50°C/5%~95%RH			
Protection	IP54(vehicle connector mated with holder) IP65(vehicle connector mated with cap)			
Appearance Size	368mm×256mm×128mm			
Product Weight	< 7.2KG			
Leakage Protection	Type A+DC6mA(CN, EU)/CCID20(US)			

# Wallbox/Floor Mounted AC Charging Pile



GB/T



Type 2



Type 1



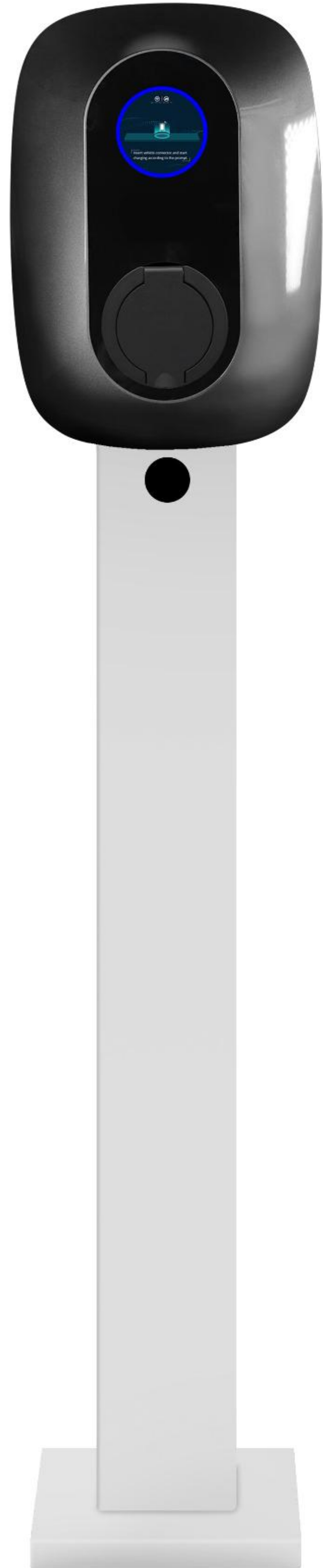
NACS

## Product Features

- Strong compatibility with electric car models.
- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- 4.3-inch LCD displays standby, charging and fault status.
- Various authorization modes with plug-and-charge, RFID card charging, App charging, Code scanning charging, Button Reservation Charging, etc.
- Various charging methods of automatic full charging, reservation charging, etc.
- Four levels of current setting,equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.
- Support OCPP1.6 protocol (can connect to standard OCPP platforms specified by customers)
- Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.
- Equipped with a load - balancing system, it auto - optimizes power distribution among multiple piles for stable operation.
- ETL&CETL, FCC, TÜVmark, IC, CE, and CCC certification standards compliant.

Item	ZB13-X007KXX-X001	ZB13-U09K6XX-X001	ZB13-X011KXX-X001	ZB13-X022KXX-X001
Input Voltage	AC220V±20%(CN) AC230V±10%(EU) AC240V±15%(US)	AC240V±15% (US)	AC240V±15%(US) AC380V±20%(CN) AC400V±10%(EU)	AC380V±20%(CN) AC400V±10%(EU)
Input Frequency	50/60Hz±1Hz			
Output Power	7kW	9.6kW	11kW	22kW
Current	32A	40A	48A/16A ( 3-phase )	32A ( 3-phase )
Display	4.3 inches(Options : LCD digital screen or digital tube)			
Communication	RFID,WIFI&Bluetooth,4G,Ethernet			
Gun Cable Length	3.5m/5m/7m/7.5m			
Temperature/ Humidity	-30~+50°C/5%~95%RH			
Protection	IP65			
Appearance Size	368mm×256.5mm×130mm			
Product Weight	< 7.2KG			
Leakage Protection	Type A+DC6mA(CN, EU)/CCID20(US)			

# Wallbox/Floor Mounted AC Charging Pile



Type 2

## Product Features

Strong compatibility with electric car models.  
 Multiple intelligent detection and protection functions.  
 Voltage&current detection and accurate power calculation.  
 Available for automatically locking the charging gun.  
 3-inch round LCD displays standby, charging and fault status.  
 Various authorization modes with plug-and-charge, RFID card charging, App charging, Code scanning charging, Button Reservation Charging, etc.  
 Various charging methods of automatic full charging, reservation charging, etc.  
 Four levels of current setting, equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.  
 Support OCPP1.6 protocol (can connect to standard OCPP platforms specified by customers)  
 Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.  
 Equipped with a load - balancing system, it auto - optimizes power distribution among multiple piles for stable operation.  
 TÜVmark, CE certification standards compliant.

Item	ZB09-X007KXX-X001	ZB09-X011KXX-X001	ZB09-X022KXX-X001
Input Voltage	AC230V±10%	AC400V±10%	AC400V±10%
Input Frequency	50/60Hz±1Hz		
Output Power	7kW	11kW	22kW
Current	32A	16A ( 3-phase )	32A ( 3-phase )
Display	3 inches round LCD screen		
Communication	RFID,WIFI&Bluetooth,4G,Ethernet		
Temperature/ Humidity	-30~+50°C/5%~95%RH		
Protection	IP55(vehicle connertor mated with holder) IP65(vehicle connertor mated with cap)		
Appearance Size	368mmx256mmx143mm		
Product Weight	< 2.8KG		
Leakage Protection	Type A+DC6mA		

# Wallbox/Floor Mounted AC Charging Pile



GB/T

## Product Features

Strong compatibility with electric car models.

Multiple intelligent detection and protection functions.

Voltage&current detection and accurate power calculation.

3-color LED indicator shows standby, charging and fault status.

Various authorization modes with plug-and-charge, RFID card charging, App charging, etc.

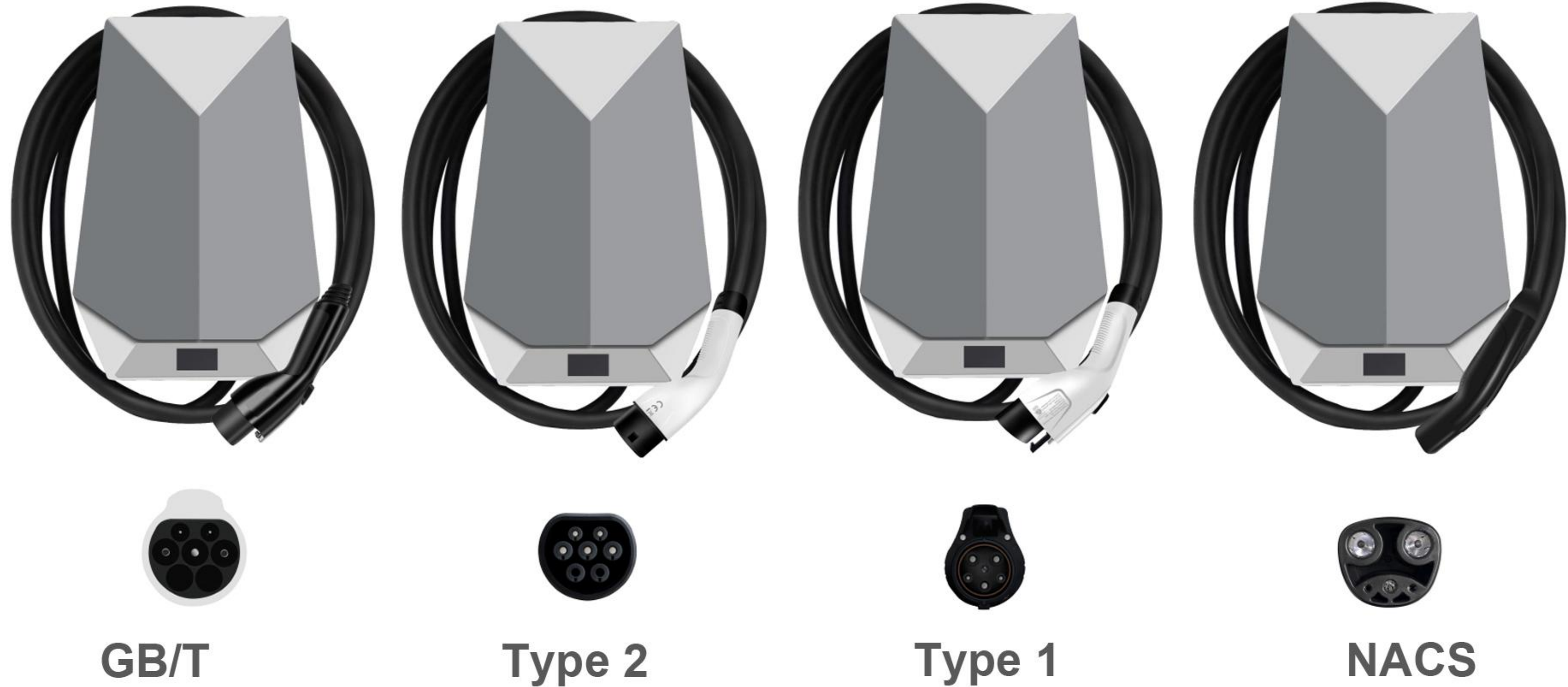
Various charging methods of automatic full charging, reservation charging, etc.

Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.

CQC certified.

Item	ZB01-C007KXX-X001
Input Voltage	220V±20%
Input Frequency	50Hz±1Hz
Output Power	7kW
Current	32A
Communication	WIFI&Bluetooth
Gun Cable Length	3.5m/5m/7m/10m
Temperature/ Humidity	-30~+50°C/5%~95%RH
Protection	IP65
Appearance Size	369.3mm×186.4mm×132.9mm
Product Weight	<8.9KG
Leakage Protection	Type A+DC6mA

# Wallbox/Floor Mounted AC Charging Pile



## Product Features

- Strong compatibility with electric car models.
- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- 1.9-inch LCD displays standby, charging and fault status.
- Various authorization modes with plug-and-charge, RFID card charging, App charging, etc.
- Various charging methods of automatic full charging, reservation charging, etc.
- Support OCPP1.6 protocol (can connect to standard OCPP platforms specified by customers)
- Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.
- Equipped with a load - balancing system, it auto - optimizes power distribution among multiple piles for stable operation.
- FCC, ETL&CETL certified, CCC, IC, CE , TÜVmark compliant.

Item	ZB14-X007KXX-X001	ZB14-U09K6XX-X001	ZB14-X011KXX-X001	ZB14-X022KXX-X001
Input Voltage	AC220V±20%(CN) AC230V±10%(EU) AC240V±15%(US)	AC240V±15% (US)	AC240V±15%(US) AC380V±20%(CN) AC400V±10%(EU)	AC380V±20%(CN) AC400V±10%(EU)
Input Frequency	50/60Hz±1Hz			
Output Power	7kW	9.6kW	11kW	22kW
Current	32A	40A	48A/16A ( 3-phase )	32A ( 3-phase )
Communication	RFID,WIFI&Bluetooth,4G,Ethernet			
Gun Cable Length	3.5m/5m/7m/7.5m			
Temperature/ Humidity	-30~+50°C/5%~95%RH			
Protection	IP65			
Appearance Size	368.17mm×255.5mm×96.59mm			
Product Weight	< 7.2KG			
Leakage Protection	Type A+DC6mA(CN, EU)/CCID20(US)			

# Wallbox/Floor Mounted AC Charging Pile



## Product Features

Strong compatibility with electric car models.  
 Multiple intelligent detection and protection functions.  
 Voltage&current detection and accurate power calculation.  
 3-inch LCD displays standby, charging and fault status.  
 Various authorization modes with plug-and-charge, RFID card charging, App charging, etc.  
 Various charging methods of automatic full charging, reservation charging, etc.  
 Support OCPP1.6 protocol (can connect to standard OCPP platforms specified by customers)  
 Supports the remote operation and maintenance platform, enabling equipment health diagnosis, fault warning and OTA upgrade, and cutting operation and maintenance costs.  
 Equipped with a load - balancing system, it auto - optimizes power distribution among multiple piles for stable operation.  
 FCC, ETL&CETL certified, CCC, IC, CE , TÜVmark compliant.

Item	ZB17-X007KXX-X001	ZB17-U09K6XX-X001	ZB17-X011KXX-X001	ZB17-X022KXX-X001
Input Voltage	AC220V ± 20% (CN) AC230V ± 10% (EU) AC240V ± 15% (US)	AC240V ± 15% (US)	AC240V ± 15% (US) AC380V ± 20% (CN) AC400V ± 10% (EU)	AC380V ± 20% (CN) AC400V ± 10% (EU)
Input Frequency	50/60Hz ± 1Hz			
Output Power	7kW	9.6kW	11kW	22kW
Current	32A	40A	48A/16A (3-phase)	32A (3-phase)
Communication	RFID,WIFI&Bluetooth,4G,Ethernet			
Gun Cable Length	3.5m/5m/7m/7.5m			
Temperature / Humidity	-30~+50°C/5%~95%RH			
Protection	IP65			
Appearance Size	368.2mm × 255.6mm × 146.7mm			
Product Weight	< 7.2KG			
Leakage Protection	Type A+DC6mA(CN、 EU)/CCID20(US)			

# PCBA of Wallbox EV chargers (CN) Economical Version

## Product Features

Multiple intelligent detection and protection functions.

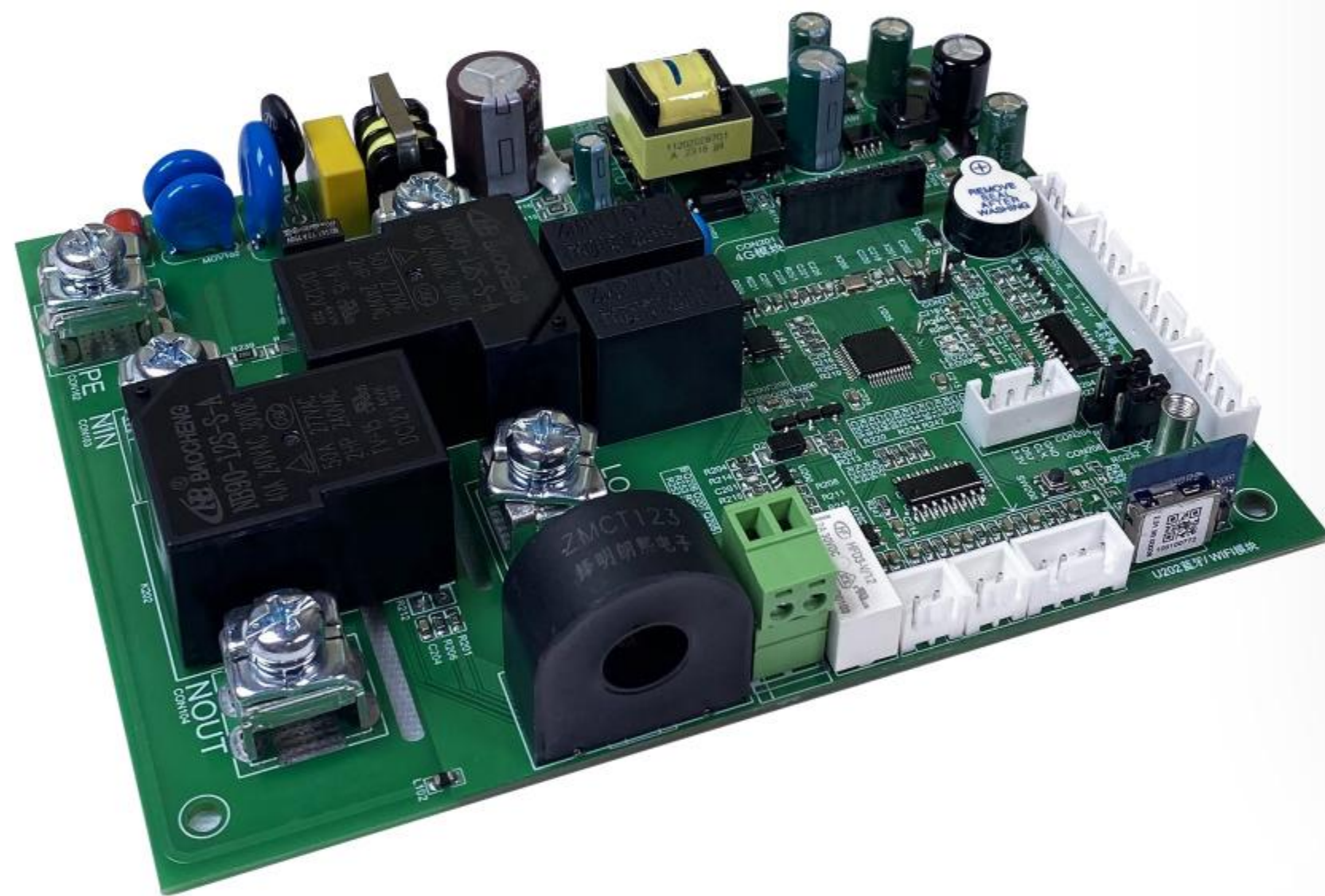
Voltage&current detection and accurate power calculation.

With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.

Various authorization modes with plug-and-Charge, RFID card charging, time setting charging, code scanning charging.

Various charging methods of automatic full charging, time setting charging, etc.

Special metering chip is adopted, and the measurement accuracy reaches 1.0.



## Applications

Suitable for Wallbox EV chargers' assembly.

Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZBC007K-C00X
Input Voltage	AC220V±20%
Input Frequency	50Hz±1Hz
Output Power	7kW
Current	32A (Max)
Material Kits	Lighting, RFID card, LCD display, WIFI&Bluetooth module,etc
Temperature	-30~+50°C
Humidity	5%~95%RH
Appearance Size	138mm×105mm×29mm

# PCBA of Wallbox EV chargers (CN) 4G Ethernet Version(3-phase)

## Product Features

Multiple intelligent detection and protection functions.

Voltage&current detection and accurate power calculation.

Supports data transfer via Ethernet (function reserved).

With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.

Various authorization modes with plug-and-Charge, RFID card charging, time setting charging, code scanning charging.

Various charging methods of automatic full charging, time setting charging, etc.

Four levels of current setting, equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.

Special metering chip is adopted, and the measurement accuracy reaches 1.0.



## Applications

Suitable for Wallbox EV chargers' assembly.

Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZBC011K-D00X
Input Voltage	AC380V±20%
Input Frequency	50Hz±1Hz
Output Power	11kW
Current	16A (Max)
Material Kits	Lighting, RFID card, LCD display, WIFI&Bluetooth module, etc
Temperature	-30~+50°C
Humidity	5%~95%RH
Appearance Size	155mmX160mmX30mm

# PCBA of Wallbox EV chargers (US) App Charging Version

## Product Features

Multiple intelligent detection and protection functions.

Voltage&current detection and accurate power calculation .

Supports data transfer via Ethernet (function reserved).

With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.

Various authorization modes with plug-and-Charge, RFID card charging, time app charging, code scanning charging.

Various charging methods of automatic full charging, time reservation charging, etc.

Four levels of current setting, equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.

Special metering chip is adopted, and the measurement accuracy reaches 1.0.



## Applications

Suitable for Wallbox EV chargers' assembly.

Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZBU007K-C00X	ZBU09K6-C00X	ZBU011K-C00X
Input Voltage	AC240V±15%		
Input Frequency	60Hz±1Hz		
Output Power	7kW	9.6kW	11kW
Current	32A(Max)	40A(Max)	48A(Max)
Material Kits	Lighting, RFID card, LCD display, WIFI&Bluetooth module,etc		
Temperature	-30~+50°C		
Humidity	5%~95%RH		
Appearance Size	154.5mm×140mm×44mm		

# PCBA of Wallbox EV chargers (CN & EU) App Charging Version (1-phase)

## Product Features

Multiple intelligent detection and protection functions.

Voltage&current detection and accurate power calculation .

Supports data transfer via Ethernet (function reserved).

With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.

Various authorization modes with plug-and-Charge, RFID card charging, time app charging, code scanning charging.

Various charging methods of automatic full charging, time reservation charging, etc.

Four levels of current setting, equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.

Special metering chip is adopted, and the measurement accuracy reaches 1.0.



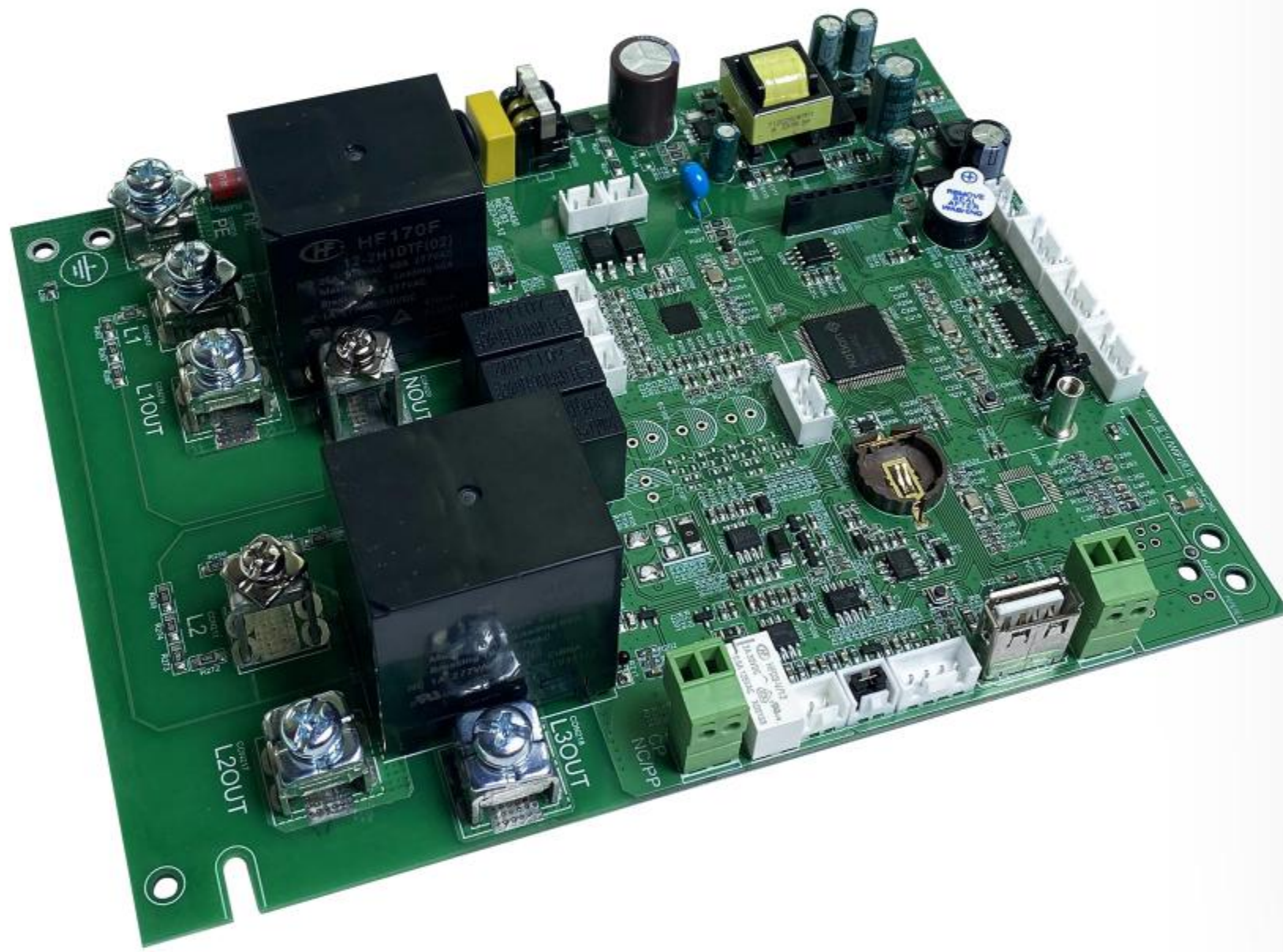
## Applications

Suitable for Wallbox EV chargers' assembly.

Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZBX007K-C00X
Input Voltage	AC220V±20%(CN)/AC230V±10%(EU)
Input Frequency	50Hz±1Hz
Output Power	7kW
Current	32A(Max)
Material Kits	Lighting, RFID card, LCD display, WIFI&Bluetooth module,etc
Temperature	-30~+50°C
Humidity	5%~95%RH
Appearance Size	180mm×140mm×44mm

# PCBA of Wallbox EV chargers (CN & EU) App Charging Version (3-phase)



## Product Features

- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation .
- Supports data transfer via Ethernet (function reserved).
- With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.
- Various authorization modes with plug-and-Charge, RFID card charging, time app charging, code scanning charging.
- Various charging methods of automatic full charging, time reservation charging, etc.
- Four levels of current setting, equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.
- Special metering chip is adopted, and the measurement accuracy reaches 1.0.

## Applications

- Suitable for Wallbox EV chargers' assembly.
- Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZBX011K-C00X	ZBX022K-C00X
Input Voltage	AC380V±20%(CN)/AC400V±10%(EU)	
Input Frequency	50Hz±1Hz	
Output Power	11kW	22kW
Current	16A(Max)	32A(Max)
Material Kits	Lighting, RFID card, LCD display, WIFI&Bluetooth module,etc	
Temperature	-30~+50°C	
Humidity	5%~95%RH	
Appearance Size	180mm×140mm×44mm	

# PCBA of Wallbox EV chargers (EU) 4G Ethernet Version(3-phase)

## Product Features

Multiple intelligent detection and protection functions.

Voltage&current detection and accurate power calculation.

OCPP1.6 protocol (can be connected to the standard OCPP platform specified by the customer) .

With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.

Special metering chip is adopted, and the measurement accuracy reaches 1.0.



## Applications

Suitable for Wallbox EV chargers' assembly.

Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZBE011K-D00X	ZBE022K-D00X
Input Voltage	AC400V±10%	
Input Frequency	50Hz±1Hz	
Output Power	11kW	22kW
Current	16A(Max)	32A(Max)
Material Kits	Lighting;LCD display;4G;Ethernet	
Temperature	-30~+50°C	
Humidity	5%~95%RH	
Appearance Size	180mm×140mm×44mm	

# PCBA of Wallbox EV chargers (US) 4G Ethernet Version



## Product Features

Multiple intelligent detection and protection functions.

Voltage&current detection and accurate power calculation.

OCPP1.6 protocol (can be connected to the standard OCPP platform specified by the customer) .

With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.

Special metering chip is adopted, and the measurement accuracy reaches 1.0.

## Applications

Suitable for Wallbox EV chargers' assembly.

Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZBU09K6-D00X	ZBU011K-D00X
Input Voltage	AC240V±15%	
Input Frequency	60Hz±1Hz	
Output Power	9.6kW	11kW
Current	40A(Max)	48A(Max)
Material Kits	Lighting;LCD display;4G;Ethernet	
Temperature	-30~+50°C	
Humidity	5%~95%RH	
Appearance Size	154.5mm×140mm×44mm	

# PCBA of Portable EV Charger (US) App Charging Version

## Product Features

- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.
- Various authorization modes with plug-and-Charge and time reservation charging.
- Various charging methods of automatic full charging, time reservation charging, etc.
- Four levels of current setting, equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.
- Special metering chip is adopted, and the measurement accuracy reaches 1.0.



## Applications

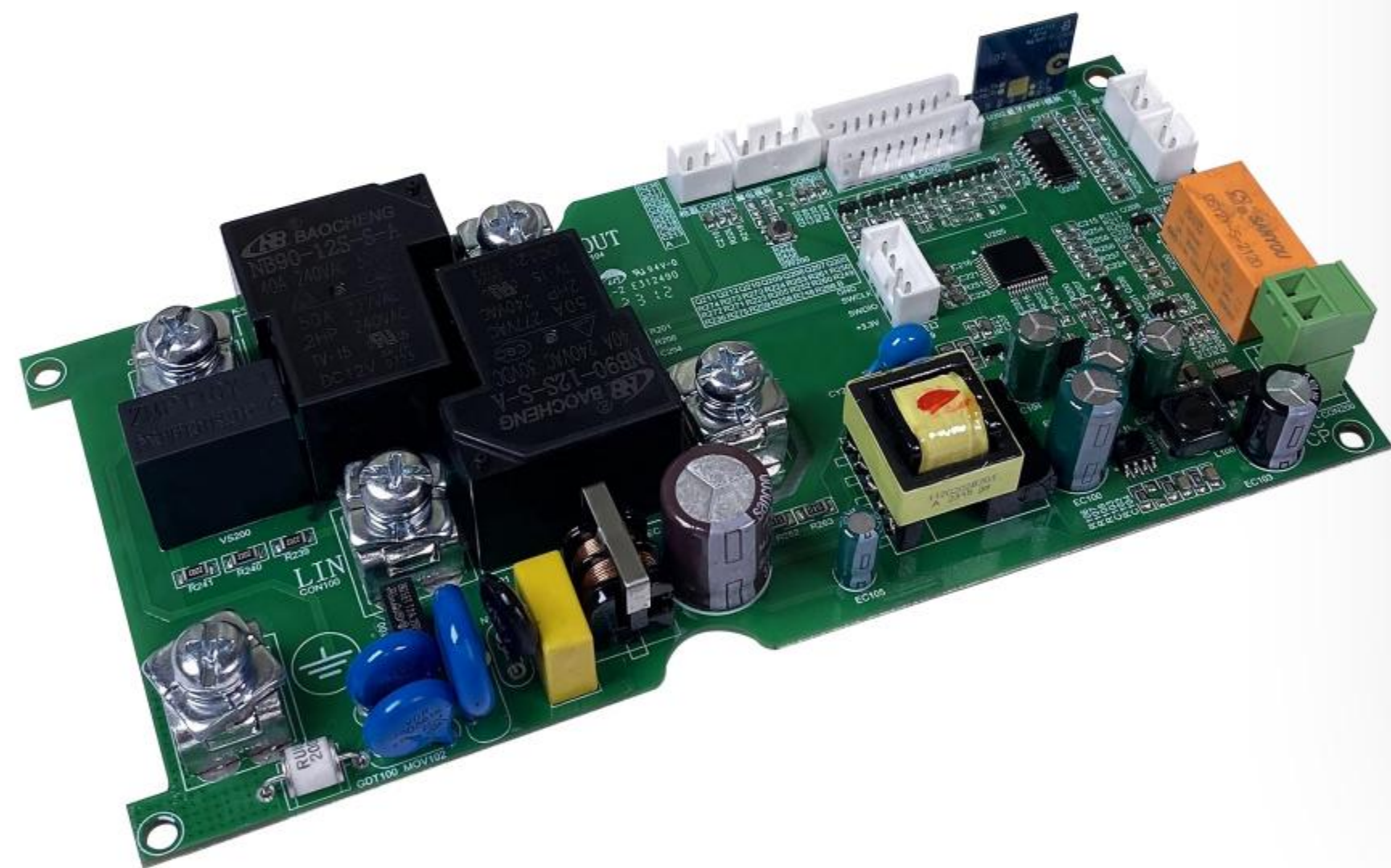
- Suitable for portable EV chargers' assembly.
- Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZAU03K5-X001	ZAU007K-X001
Input Voltage	AC240V±15%	
Input Frequency	60Hz±1Hz	
Output Power	3.5kW	7kW
Current	16A(Max)	32A(Max)
Material Kits	Lighting, LCD display, WIFI&Bluetooth module,Button	
Temperature	-30~+50°C	
Humidity	5%~95%RH	
Appearance Size	160mm×75mm×29mm	

# PCBA of Portable EV Charger (CN) App Charging Version

## Product Features

- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.
- Various authorization modes with plug-and-Charge and time reservation charging.
- Various charging methods of automatic full charging, time reservation charging, etc.
- Four levels of current setting, equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.
- Special metering chip is adopted, and the measurement accuracy reaches 1.0.



## Applications

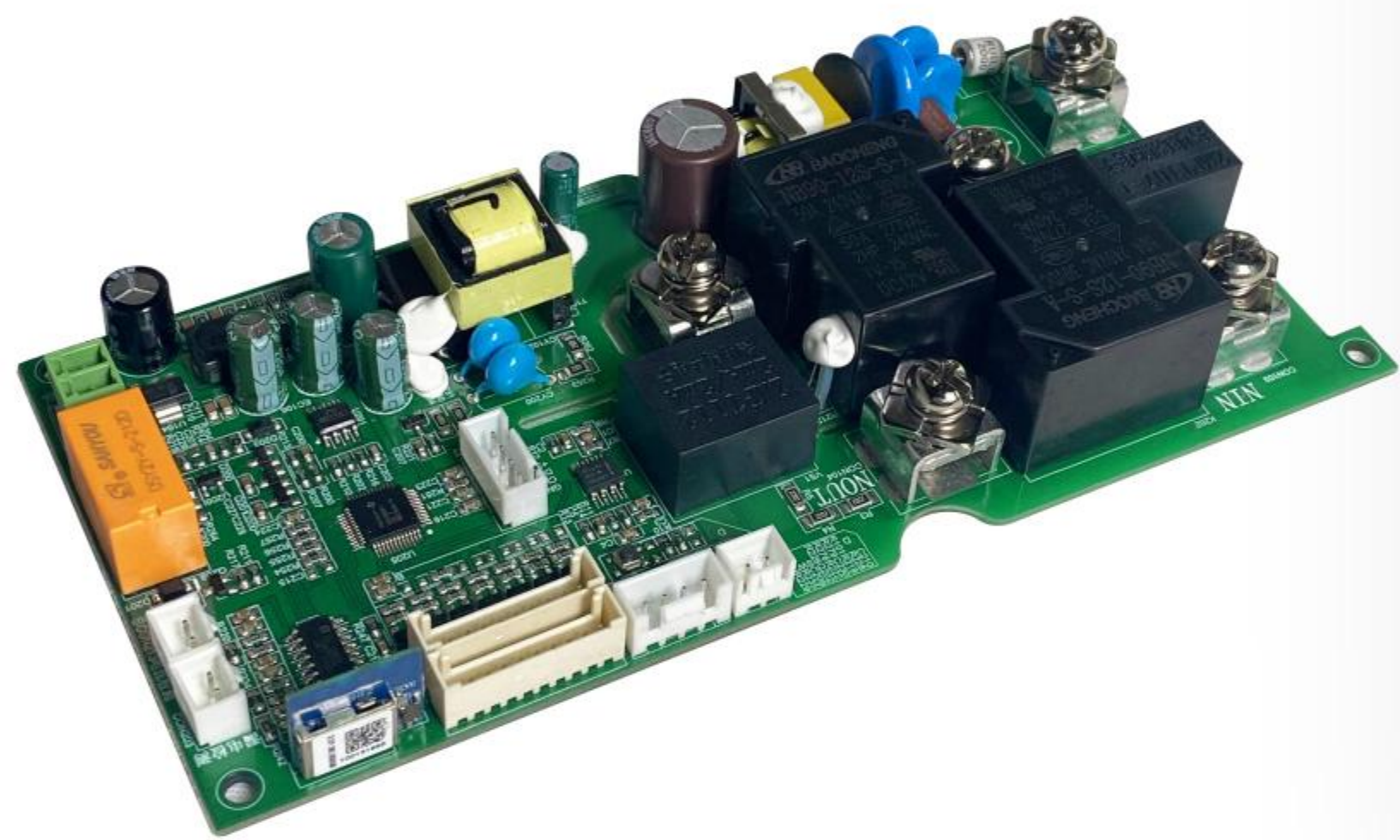
- Suitable for portable EV chargers' assembly.
- Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZAC03K5-X001	ZAC007K-X001
Input Voltage	AC220V±20%	
Input Frequency	50Hz±1Hz	
Output Power	3.5kW	7kW
Current	16A(Max)	32A(Max)
Material Kits	Lighting, LCD display, WIFI&Bluetooth module,Button	
Temperature	-30~+50°C	
Humidity	5%~95%RH	
Appearance Size	160mm×75mm×29mm	

# PCBA of Portable EV Charger (EU) App Charging Version

## Product Features

- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.
- Various authorization modes with plug-and-Charge and time reservation charging.
- Various charging methods of automatic full charging, time reservation charging, etc.
- Four levels of current setting, equipped with memory function, which defaults to the nearest current level after switching on, without the need for repeated settings.
- Special metering chip is adopted, and the measurement accuracy reaches 1.0.



## Applications

- Suitable for portable EV chargers' assembly.
- Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZAE03K5-X001	ZAE007K-X001
Input Voltage	AC230V±10%	
Input Frequency	50Hz±1Hz	
Output Power	3.5kW	7kW
Current	16A(Max)	32A(Max)
Material Kits	Lighting, LCD display, WIFI&Bluetooth module, Button	
Temperature	-30~+50°C	
Humidity	5%~95%RH	
Appearance Size	160mm×75mm×29mm	

# PCBA of Portable EV Charger (CN )Economical Version

## Product Features

- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.
- Various authorization modes.
- Various charging methods.
- Special metering chip is adopted, and the measurement accuracy reaches 1.0.



## Applications

- Suitable for portable EV chargers' assembly.
- Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZBC03K5-A00X
Input Voltage	AC220V±20%
Input Frequency	50Hz±1Hz
Output Power	3.5kW
Current	16A(Max)
Material Kits	Lighting, LCD display,Button
Temperature	-30~+50°C
Humidity	5%~95%RH
Appearance Size	137mm×66mm×29mm

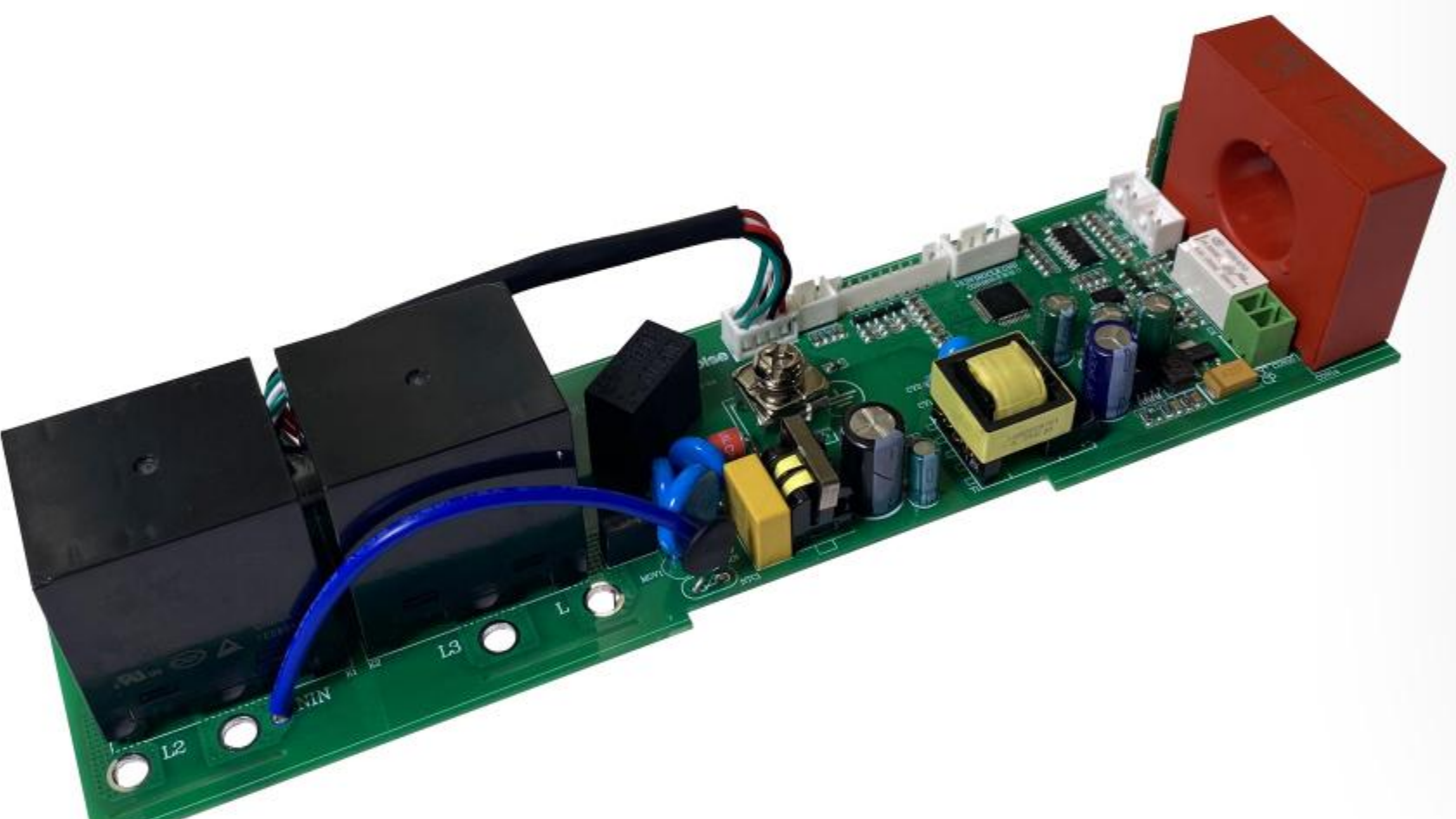
# PCBA of Portable EV Charger (CN & EU ) App Charging Version(3-phase)

## Product Features

- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- CP detection function.
- Various authorization modes.
- Various charging methods.
- Special metering chip is adopted, and the measurement accuracy reaches 1.0.

## Applications

- Suitable for portable EV chargers' assembly.
- Suitable for EV charger enclosures with at least IP54 rated protection.



Item	ZAX011K-F00X	ZAX022K-F00X
Input Voltage	AC380V±20%(CN)/AC400V±10%(EU)	
Input Frequency	50Hz±1Hz	
Output Power	11kW	22kW
Current	16A(Max)	32A(Max)
Material Kits	Lighting, LCD display, WIFI&Bluetooth module,Button	
Temperature	-30~+50°C	
Humidity	5%~95%RH	
Appearance Size	220mm×54mm×40mm	


# PCBA of Portable EV Charger (US) App Charging Version

## Product Features

- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.
- Various authorization modes.
- Various charging methods.
- Special metering chip is adopted, and the measurement accuracy reaches 1.0.

## Applications

- Suitable for portable EV chargers' assembly.
- Suitable for EV charger enclosures with at least IP54 rated protection.



Item	ZAU09K6-F00X
Input Voltage	AC240V±15%
Input Frequency	60Hz±1Hz
Output Power	9.6kW
Current	40A(Max)
Material Kits	Lighting, LCD display, WIFI&Bluetooth module,Button
Temperature	-30~+50°C
Humidity	5%~95%RH
Appearance Size	220mm×54mm×40mm

# PCBA of Portable EV Charger (EU)APP Charging Simple Version



## Product Features

- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.
- Various authorization modes with plug-and-Charge and time reservation charging.
- Various charging methods of automatic full charging, time reservation charging, etc.
- Special metering chip is adopted, and the measurement accuracy reaches 1.0.

## Applications

- Suitable for portable EV chargers' assembly.
- Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZAE03K5-F00X
Input Voltage	AC230V±10%
Input Frequency	50Hz±1Hz
Output Power	3.5kW
Current	16A(Max)
Material Kits	Lighting, LCD display, WIFI&Bluetooth module,Button
Temperature	-30~+50°C
Humidity	5%~95%RH
Appearance Size	160mm×75mm×29mm

# PCBA of Portable EV Charger (US)APP Charging Simple Version

## Product Features

Multiple intelligent detection and protection functions.

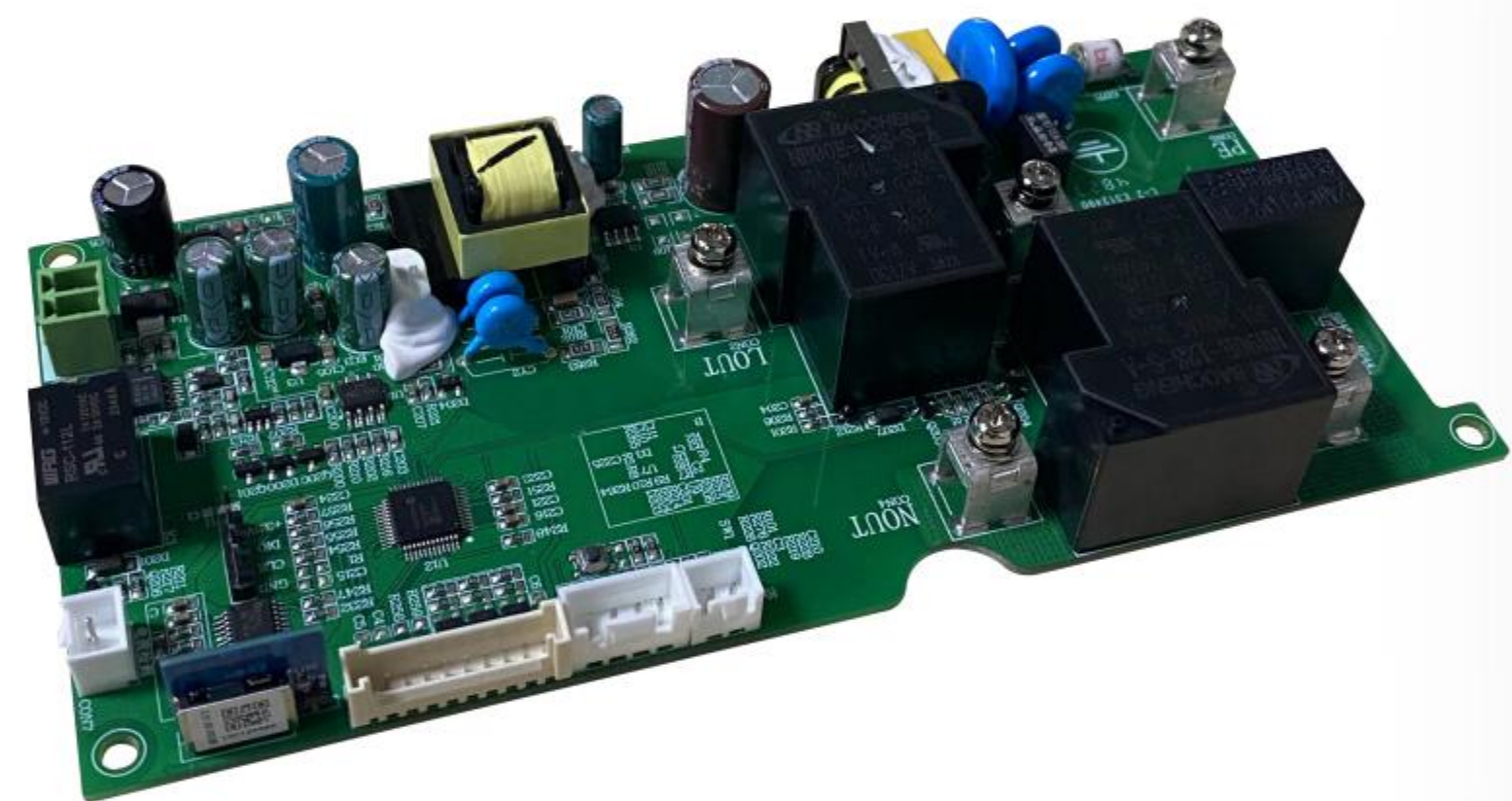
Voltage&current detection and accurate power calculation.

With CP detection function, it can conduct PWM interaction with electric vehicles to complete charging.

Various authorization modes with plug-and-Charge and time reservation charging.

Various charging methods of automatic full charging, time reservation charging, etc.

Special metering chip is adopted, and the measurement accuracy reaches 1.0.



## Applications

Suitable for portable EV chargers' assembly.

Suitable for EV charger enclosures with at least IP54 rated protection.

Item	ZAU03K5-F00X
Input Voltage	AC240V±15%
Input Frequency	60Hz±1Hz
Output Power	3.5kW
Current	16A(Max)
Material Kits	Lighting, LCD display, WIFI&Bluetooth module,Button
Temperature	-30~+50°C
Humidity	5%~95%RH
Appearance Size	160mm×75mm×29mm



# Wallbox DC Charger



## Product Features

Multiple intelligent detection and protection functions.  
 RFID/ Scanning Code Charging/ VIN Code Charging/ Password Charging, etc.  
 Voltage&current detection and accurate power calculation.  
 Breathing light displays the charging status and light indicators show faults.

## Applications

Suitable for indoors, underground garage of the community, parking lots, etc.  
 Suitable for home use, office use, factories use, etc.

Item	ZE02-X020KBX-X001
Input Voltage	260Vac~530Vac
Input Frequency	50Hz± 10%Hz
Output Voltage	200Vdc~750Vdc
Output Power	20kW
Current	0-61A
Efficiency	≥94.5%
Constant Current Accuracy	≤±0.5%
Constant Voltage Accuracy	≤±0.5%
Temperature /Humidity	-20°C~50°C/5%~95%RH
Protection	IP54
Charging Methods	RFID/ Scanning Code Charging/ VIN Code Charging/ Password Charging
Appearance Size	450mmx650mmx215.5mm
Product Weight	< 40KG

# Wallbox DC Charger



## Product Features

Plug-and-charge operation, convenient and fast;  
Multiple intelligent detection and protection functions;  
The digital screen displays charging status with fault alerts;  
Sleek and minimalist appearance;  
Wall-mounted design for easy installation and space efficiency.

## Applications

Suitable for indoors, underground garage of the community, parking lots, etc.  
Suitable for home use, office use, factories use, etc.

Item	ZE04-X007KBX-X001
Input Voltage	176-264Vac; 220Vac (type)
Input Frequency	50Hz ± 10%Hz
Output Voltage	250Vdc~750Vdc
Output Power	7kW
Current	0-20A
Efficiency	≥ 95%
Constant Current Accuracy	≤ ± 0.5%
Constant Voltage Accuracy	≤ ± 0.5%
Temperature /Humidity	-30~+50°C/5%~95%RH
Protection	IP54
Gun Cable Length	3m/5m/7m
Appearance Size	526.2mmx308mmx109.4mm
Product Weight	< 20KG

# Wallbox DC Charger



## Product Features

Plug-and-charge operation, convenient and fast;  
Multiple intelligent detection and protection functions;  
The digital screen displays charging status with fault alerts;  
Sleek and minimalist appearance;  
Wall-mounted design for easy installation and space efficiency.

## Applications

Suitable for indoors, underground garage of the community, parking lots, etc.  
Suitable for home use, office use, factories use, etc.

Item	ZE03-X007KBX-X001
Input Voltage	176-264Vac; 220Vac (type)
Input Frequency	50Hz ± 10%Hz
Output Voltage	250Vdc~750Vdc
Output Power	7kW
Current	0-20A
Efficiency	≥ 95%
Constant Current Accuracy	≤ ± 0.5%
Constant Voltage Accuracy	≤ ± 0.5%
Temperature / Humidity	-30~+50°C / 5%~95%RH
Protection	IP54
Gun Cable Length	3m
Appearance Size	462.4mmx30mmx71.2mm
Product Weight	< 20KG



# Portable DC Charger



## Product Features

Multiple intelligent detection and protection functions;  
 Plug-and-charge with one-button start/stop for simple operation;  
 Voltage/current detection and precise power calculation;  
 Compact size for easy portability;  
 Four-color LED indicators show charging status and fault alerts.

## Applications

Suitable for: Villa courtyards, logistics parks, delivery stations, private parking spaces, hotels/B&Bs, and self-built residences.

Item	ZD04-X03K5BX-X001
Input Voltage	175Vac~265Vac
Input Frequency	50/60Hz±1Hz
Output Voltage	250Vdc~450Vdc
Output Power	3.5kW
Current	0-8A
Efficiency	≥95%
Constant Current Accuracy	≤5%
Constant Voltage Accuracy	≤±1%
Temperature /Humidity	-30°C~50°C/45%~80%RH
Protection	IP54
Gun Cable Length	1.5m
Charging Methods	Plug and Play
Appearance Size	401mmx342mmx136.6mm
Product Weight	<7.5KG

# Portable DC Charger



## Product Features

Multiple intelligent detection and protection functions  
Plug-and-charge with one-button start/stop for simple operation;  
Voltage/current detection and precise power calculation;  
Compact size for easy portability;  
Four-color LED indicators show charging status and fault alerts.

## Applications

Suitable for: Villa courtyards, logistics parks, delivery stations, private parking spaces, hotels/B&Bs, and selfbuilt residences.

Item	ZD02-X06K6BA-X001
Input Voltage	AC85-265V ; AC220V ( type )
Input Frequency	50/60Hz±1Hz
Output Voltage	DC250V-DC610V
Output Power	6.6kW
Output Current	0-20A
Efficiency	≥95%
Charging Methods	Plug-and-charge
Cooling Method	Forced air-cooling
Temperature /Humidity	-30~+50°C/5%~95%RH
Protection	IP54
Gun Cable Length	3m
Appearance Size	421mm x 154.4mm x 229.4mm
Product Weight	< 13KG



# DC Charger Power Supply Module



## Product Features

Wide voltage range: DC200~1000V.

High efficiency: the highest efficiency is above 95%.

Cooling method: intelligent air cooling.

Low standby power to improve operation profits.

Multiple intelligent detection and protection functions.

Built-in current anti-reverse charging circuit with reverse connection protection.

Built-in PFC power factor correction circuit to improve input power factor.

## Applications

Suitable for DC Charging Station Systems.

Item	ZX100020X	ZX100030X	ZX100060X
Input Voltage	AC380V±15%		
Input Frequency	50Hz±1Hz		
Efficiency	≥95%		≥97.5%
Standby Power Consumption	< 10W		< 12W
Output Voltage	DC200V~DC1000V		DC50V~DC1000V
Output Power	20kW	30kW	60kW
Current	0-67A	0-100A	0-144A
Communication	CAN		
Operating Temperature	-25~+75°C(Please reduce the power when it's above 50°C.) /5%~95%RH		-45~+75°C(Please reduce the power when it's above 55°C.) /5%~95%RH
Protection	IP20		
Cooling Method	Intelligent air cooling		
Appearance Size	458mm×218mm×84mm	464mm×300mm×88mm	490mm×320mm×110mm
Product Weight	< 11KG	< 16KG	< 22KG
MTBF	≥500,000 H		≥120,000 H



# DC Charger



## Product Features

- Integrated double gun, intelligent power distribution.
- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- 3-color LED indicators show standby, charging and fault statuses.
- Various charging authorization with swiping card charging, code scanning charging, etc.
- Various charging methods with automatic full charging, time, amount, and /or payment reservation charging, etc.

## Applications

- Suitable for commercial use, such as office buildings, urban complexes, etc.
- Suitable for on-street parking spots, public parking lots, and fuel charging station,etc.
- Suitable for high-way service areas, socially operated charging stations, workshops&factories, etc.

Item	ZF05-X040KBD-X001	ZF05-X060KBD-X001	ZF05-X080KBD-X001
Input Voltage	AC380V±15%		
Frequency	50Hz±1Hz		
Output Voltage	DC200V-DC750V		
Output Power	40kW	60kW	80kW
Output Current	Ax2	100Ax2	130Ax2
Efficiency	≥95.2%		
Constant Current Accuracy	≤±1.0%		
Measurement Accuracy	Level 1		
Temperature /Humidity	-30~+50°C/5%~95%RH		
Cooling Method	Air cooling		
Protection	IP54		
Networking	WIFI, 4G, Ethernet		
Communication	GB/T 27930、DIN70121、ISO15118		
HMI	7-inch touch screen		
Payment	Contactless CPU charge card, code scanning payment		
Charging Ports	2		
Gun Cable Length	5m		
Appearance Size	1600mm×700mm×350mm		
Protective Functions	Charging gun temperature detection, OVP /UVP, OTP, overload protection,etc		
Connector	GB/T 20234.3、IEC 62196		
Standard	GB/T18487、NB/T33001、NB/T33008.1、IEC/EN 61851-1、IEC/EN 61851-23		



# DC Charger



## Product Features

Integrated double gun, intelligent power distribution.

Multiple intelligent detection and protection functions.

Voltage&current detection and accurate power calculation.

3-color LED indicators show standby, charging and fault statuses.

Various charging authorization with swiping card charging, code scanning charging, etc.

Various charging methods with automatic full charging, time, amount, and /or payment reservation charging, etc.

## Applications

Suitable for commercial use, such as office buildings, urban complexes, etc.

Suitable for on-street parking spots, public parking lots, and fuel charging station,etc.

Suitable for high-way service areas, socially operated charging stations, workshops&factories, etc.

Item	ZF01-X120KBD-X001	ZF01-X160KBD-X001	ZF01-X200KBD-X001
Input Voltage	AC380V±15%		
Frequency	50Hz±1Hz		
Output Voltage	DC200V-DC1000V		
Output Power	120kW	160kW	200kW
Output Current	200Ax2	250Ax2	250Ax2
Efficiency	≥95.2%		
Constant Current Accuracy	≤±1.0%		
Measurement Accuracy	Level 1		
Temperature /Humidity	-30~+50°C/5%~95%RH		
Cooling Method	Air cooling		
Protection	IP54		
Networking	WIFI, 4G, Ethernet		
Communication	GB/T 27930、DIN70121、ISO15118		
HMI	7-inch touch screen		
Payment	Contactless CPU charge card, code scanning payment		
Charging Ports	2		
Gun Cable Length	5m		
Appearance Size	1700mm×800mm×555mm		
Protective Functions	Charging gun temperature detection, OVP /UVP, OTP, overload protection,etc		
Connector	GB/T 20234.3、IEC 62196		
Standard	GB/T18487、NB/T33001、NB/T33008.1、IEC/EN 61851-1、IEC/EN 61851-23		



# DC Charger



## Product Features

Integrated double gun, intelligent power distribution.  
 Multiple intelligent detection and protection functions.  
 Voltage&current detection and accurate power calculation.  
 3-color LED indicators show standby, charging and fault statuses.  
 Various charging authorization with swiping card charging, code scanning charging, etc.  
 Various charging methods with automatic full charging, time, amount, and /or payment reservation charging, etc.

## Applications

Suitable for commercial use, such as office buildings, urban complexes, etc.  
 Suitable for on-street parking spots, public parking lots, and fuel charging station,etc.  
 Suitable for high-way service areas, socially operated charging stations, workshops&factories, etc.

Item	ZF04-X180KBD-X001	ZF04-X240KBD-X001
Input Voltage	AC380V±15%	
Frequency	50Hz±1Hz	
Output Voltage	DC200V-DC1000V	
Output Power	180kW	240kW
Output Current	250Ax2	
Efficiency	≥95.2%	
Constant Current Accuracy	≤±1.0%	
Measurement Accuracy	Level 1	
Temperature /Humidity	-30~+50°C/5%~95%RH	
Cooling Method	Air cooling	
Protection	IP54	
Networking	WIFI, 4G, Ethernet	
Communication	GB/T 27930、DIN70121、ISO15118	
HMI	7-inch touch screen	
Payment	Contactless CPU charge card, code scanning payment	
Charging Ports	2	
Gun Cable Length	5m	
Appearance Size	1920mm×750mm×750mm	
Protective Functions	Charging gun temperature detection, OVP /UVP, OTP, overload protection,etc	
Connector	GB/T 20234.3、IEC 62196	
Standard	GB/T18487、NB/T33001、NB/T33008.1、IEC/EN 61851-1、IEC/EN 61851-23	

# DC Charger



## Product Features

- Integrated double gun, intelligent power distribution.
- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- 3-color LED indicators show standby, charging and fault statuses.
- Various charging authorization with swiping card charging, code scanning charging, etc.
- Various charging methods with automatic full charging, time, amount, and /or payment reservation charging, etc.

## Applications

- Suitable for commercial use, such as office buildings, urban complexes, etc.
- Suitable for on-street parking spots, public parking lots, and fuel charging station,etc.
- Suitable for high-way service areas, socially operated charging stations, workshops&factories, etc.

Item	ZPS90E	ZPS120E	ZPS180E	ZPS240E
Input Voltage	AC3400V±10%			
Frequency	50/60Hz±5Hz			
Output Voltage	DC200V-DC1000V			
Output Power	90kW	120kW	180kW	240kW
Output Current	250A	250AX2		
Efficiency	≥94%			
Constant Current Accuracy	≤±1.0%			
Measurement Accuracy	Level 1			
Temperature /Humidity	-30~+50°C/5%~95%RH			
Cooling Method	Air cooling			
Protection	IP55 IK10			
Networking	LET、Ethernet			
Communication	OCPP-1.6JSON			
HMI	10.1-inch touch screen			
Payment	Contactless CPU charge card, code scanning payment			
Charging Ports	2			
Gun Cable Length	5m			
Charging Connector	CCS2(CCS1 optional)			
Protective Functions	OVP /UVP, OTP, OLP, short-circuit protection, grounding protection, surge protection,etc			
Connector	DIN70121 : 2014-12、ISO15118			



# DC Charger



## Product Features

Integrated double gun, intelligent power distribution.

Multiple intelligent detection and protection functions.

Voltage&current detection and accurate power calculation.

3-color LED indicators show standby, charging and fault statuses.

Various charging authorization with swiping card charging, code scanning charging, etc.

Various charging methods with automatic full charging, time, amount, and /or payment reservation charging, etc.

## Applications

Suitable for commercial use, such as office buildings, urban complexes, etc.

Suitable for on-street parking spots, public parking lots, and fuel charging station,etc.

Suitable for high-way service areas, socially operated charging stations, workshops&factories, etc.

Item	RADA40E	RADA40U
Input Voltage	AC380V±15%	AC380V±20%
Frequency	50Hz±1Hz	45Hz-65Hz
Output Voltage	DC200V-(DC700V)DC1000V	
Output Power	40kW	
Output Current	0-133A	0-150A
Efficiency	≥95%	
Constant Current Accuracy	≤±1.0%	
Measurement Accuracy	Level 1	
Temperature /Humidity	-20~+50°C/-25~+50°C	
Cooling Method	Air cooling	
Protection	IP54	
Networking	4G、Ethernet	
Communication	OCPP-1.6J	
HMI	7-inch touch screen	
Payment	Contactless CPU charge card, code scanning payment、password-based payment	
Charging Ports	2	
Gun Cable Length	5m	
Appearance Size	1520mm×650mm×330mm	
Charging Connector	CCS2/CCS1	
Standard	IEC 61851-1:2017,IEC 62196-2:2016/UL2202-2022,UL2231-2	



# DC Charger



## Product Features

Integrated double gun, intelligent power distribution.

Multiple intelligent detection and protection functions.

Voltage&current detection and accurate power calculation.

3-color LED indicators show standby, charging and fault statuses.

Various charging authorization with swiping card charging, code scanning charging, etc.

Various charging methods with automatic full charging, time, amount, and /or payment reservation charging, etc.

## Applications

Suitable for commercial use, such as office buildings, urban complexes, etc.

Suitable for on-street parking spots, public parking lots, and fuel charging station,etc.

Suitable for high-way service areas, socially operated charging stations, workshops&factories, etc.

Item	ZPS120E
Input Voltage	3W+N+PE
Frequency	47Hz-53Hz
Output Voltage	DC315V-DC456V
Output Power	120kW
Output Current	230A
Efficiency	≥94%
Constant Current Accuracy	≤±1.0%
Measurement Accuracy	Level 1
Temperature /Humidity	-30~+50°C/5%~95%RH
Cooling Method	Air cooling
Protection	IP54
Networking	WIFI
Communication	OCPP-1.6JSON
HMI	10.1-inch touch screen
Payment	Contactless CPU charge card, code scanning payment
Charging Ports	2
Gun Cable Length	5±0.2m
Appearance Size	1920mm×750mm×750mm
Protective Functions	OVP /UVP, OTP, OCP, short-circuit protection, etc
Connector	DIN70121:2014-12/ISO15118
Standard	IEC 61851-1、IEC 62196-1/-3、ISO15118



# DC Charger



## Product Features

- Integrated double gun, intelligent power distribution.
- Multiple intelligent detection and protection functions.
- Voltage&current detection and accurate power calculation.
- 3-color LED indicators show standby, charging and fault statuses.
- Various charging authorization with swiping card charging, code scanning charging, etc.
- Various charging methods with automatic full charging, time, amount, and /or payment reservation charging, etc.

## Applications

- Suitable for commercial use, such as office buildings, urban complexes, etc.
- Suitable for on-street parking spots, public parking lots, and fuel charging station,etc.
- Suitable for high-way service areas, socially operated charging stations, workshops&factories, etc.

Item	F3	
Input Voltage	AC323V-AC437V	
Output Voltage	DC200V-DC1000V	
Output Power	120kW	180kW
Output Current	Single:250A , Double:400A	Single:250A , Double:500A
Efficiency	≥96%	
Constant Current Accuracy	≤±1.0%	
Temperature /Humidity	-30~+50°C/5%~95%RH	
Protection	IP54	
Networking	4G、Ethernet	
HMI	7-inch touch screen	
Payment	Local payment、VIN、Contactless CPU charge card, code scanning payment	
Charging Ports	2	
Gun Cable Length	5m	
Appearance Size	1700mm×800mm×600mm	
BMS auxiliary power source	12V(Standard configuration)	
Standard	GB/T18487、NB/T33001、NB/T33008.1、IEC/EN 61851-1、IEC/EN 61851-23	

**06**

**PART 06**

**Cooperation Customer**





国网电动汽车服务  
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Corporate Vision: Global leader in integrated solutions for new energy electric vehicle products

Corporate Mission: Innovative green energy create competitive products energize the world