

CONTENTS

PART ONE:THE BASIC SITUATION OF SHANHUA	3
1.ENTERPRISE PROFILE	3
2.COPY OF BUSINESS LICENSE	4
3.ENTERPRISE REALITY AND CUSTOMER CASES	5
① Photo of North Factory	5
② Photo of New Factory	5
③ Meeting Rooms and Office Rooms	6
④ Photos of Production Equipment and Production Area	7
⑤ Generator Sets Exhibition Hall	11
⑥ We Participate Exhibitions and Foreign Clients Visiting	13
⑦ Photos of Some Orders for Generator Sets	16
⑧ Customer Cases of National Troops	19
⑨ Customer Cases of Mining	19
⑩ Customer Cases of Data Center	20
⑪ Our Strategic Partners	22
⑫ Major Events in Enterprise Development	23
Photos for Some Events	24
PART TWO:SHANHUA COMPANY QUALIFICATION	26
1.CE CERTIFICATION	26
2.QUALITY MANAGEMENT SYSTEM CERTIFICATE	26
3.ENVIRONMENT MANAGEMENT SYSTEM CERTIFICATE	26
4.OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE	26
5.TL CERTIFICATE	27
6.SERVICE CERTIFICATION CERTIFICATE	27
7.PARTIAL PATENT CERTIFICATES	27
PART THREE:HONORS OF SHANHUA	30
1.NATIONAL SPECIALIZED, REFINED, AND NEW "LITTLE GIANT" ENTERPRISE CERTIFICATE	30
2.CERTIFICATE OF TOP 10 ENTERPRISES FOR GENERATOR SETS	30
3.CHINA FAMOUS TRADEMARK	31
4.DESIGNATED SUPPLY UNIT OF CHINESE NAVAL EQUIPMENT	31
PART FOUR:SHANHUA AFTER-SALES SERVICE SYSTEM	32
1.SHANHUA AFTER-SALES SERVICE	32
2.CUSTOMER SERVICE TEAM RESPONSIBILITIES	33
3.SERVICE TYPE	33
4.SERVICE CONTENTS	34
5.CUSTOMER TRAINING	35
ATTACH: <TRAINING COURSE>	36
6.CUSTOMER SERVICE MANUAL	37

PART FIVE:SHANHUA TECHNICAL DOCUMENTS	39
1.MAIN PERFORMANCE INDICATORS, TECHNICAL SPECIFICATIONS AND STANDARDS FOR PRODUCT MANUFACTURING EXECUTION.	39
2.SOME TECHNICAL ENGINEERS OF SHANHUA	40
3.SOME PHOTOS OF OUR ENGINEERS CERTIFICATIONS	41
PART SIX:OEM AUTHORIZATION CERTIFICATES	42
PERKINS ENGINE OEM CERTIFICATE	42
CHONGQING CUMMINS GOEM CERTIFICATE	42
CUMMINS ENGINE GOEM CERTIFICATE	42
GUANGXI YUCHAI ENGINE OEM CERTIFICATE	42
WEICHAI POWER OEM CERTIFICATE	43
LEROY-SOMER ALTERNATOR OEM CERTIFICATE	43
MARATHON OEM CERTIFICATE	43
STAMFORD OEM CERTIFICATE	43
CONTACT DETAILS	44

SHANHUA POWER

PART ONE:THE BASIC SITUATION OF SHANHUA

1. ENTERPRISE PROFILE

Shandong Huali Electromechanical Co., Ltd was established in 1999, for which workshops cover 100 thousand square meters, and registered capital is USD14.9 million. It is located in Jining City, Shandong province. Our core culture is Customer Value, Employee Value, Enterprise Value and Social Responsibility. The Philosophy of our company is Cooperation and Mutual benefits.

We mainly produce all kinds of fuel generator sets, intelligent fog cannon, AGV robot, software, etc. We have more than 300 employees, during which 80 engineers and technicians, 6 production lines, 7 high precision AGV robot production lines, owning more than 100 sets NC equipment, and one national standard test center. We are honored as “Abide by contract and Keep faith” enterprise, and our products are authorized by ISO9001, CE, CNAS certificate. Through the development in recent years, We have become a large-scale influential brand enterprise in the above areas in north of China.

Based in China with global visions, we will take the revitalization of national industry as our own duties, along with honesty cooperation, making conscience products and doing a good job in each detail to make our customers satisfied. We will continuously create value for customers, and achieve the common goal of win-win cooperation.

2.COPY OF BUSINESS LICENSE



营业执照

(副 本) 5-1

统一社会信用代码
913708305652370642

注册资本 壹亿零柒佰伍拾捌万元整

成立日期 2010 年 11 月 23 日

住 所 汶上县经济开发区



扫描二维码
市场主体
信用信息
查询、
备案、
许可、
监管信息、
体验更多
应用服务。

名 称 山东华力机电有限公司

类 型 有限责任公司(自然人投资或控股)

法定代表人 郭永旭

经营范围 一般项目：发电机及发电机组制造；发电机及发电机组销售；通用设备制造（不含特种设备制造）；工业机器人制造；工业机器人销售；环境保护专用设备销售；环境保护专用设备制造；汽车销售；配电开关控制设备制造；配电开关控制设备销售；机械电气设备销售；电气设备安装；除尘技术装备制造；单位后勤管理服务；智能仓储装备制造；农业机械制造；农业机械销售；智能机器人的研发；仓储设备租赁服务；计算机软硬件及辅助设备批发；技术服务、技术开发、技术咨询、技术交流、技术转让、技术推广；软件开发；智能控制系统集成；工业互联网数据服务；物料搬运装备制造；物料搬运设备销售。（除依法须经批准的项目外，凭营业执照依法自主开展经营活动）
许可项目：建设工程施工。（依法须经批准的项目，经相关部门批准后方可开展经营活动，具体经营项目以相关部门批准文件或许可证件为准）



登记机关

2024 年 07 月 08 日

国家企业信用信息公示系统网址：<http://www.gsxt.gov.cn>

市场主体应当于每年1月1日至6月30日通过国家企业信用信息公示系统报送公示年度报告

国家市场监督管理总局监制

3. ENTERPRISE REALITY AND CUSTOMER CASES

① Photo of North Factory



② Photo of New Factory



③ Meeting Rooms and Office Rooms



Meeting Room



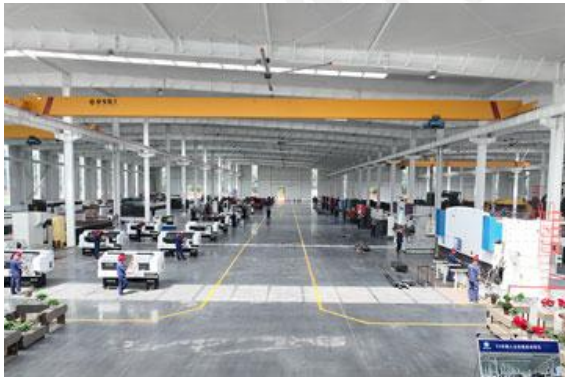
Meeting Room



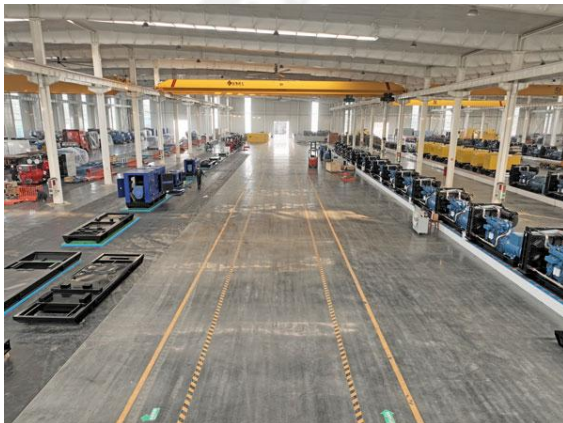
④ Photos of Production Equipment and Production Area









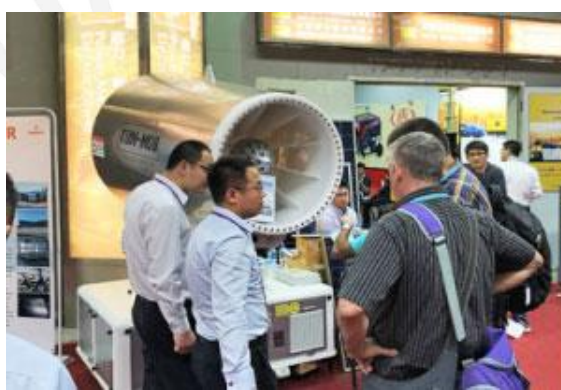
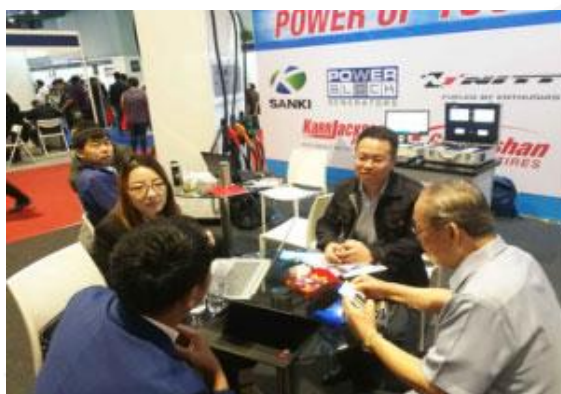


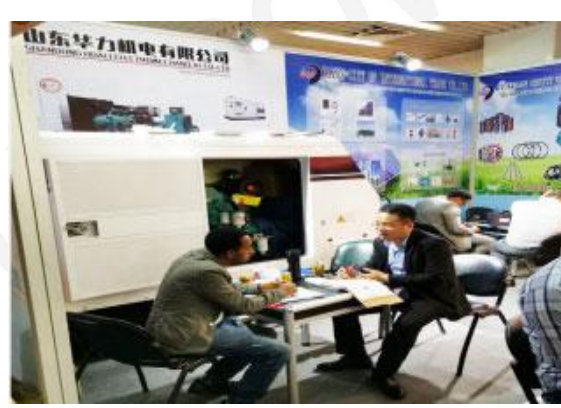
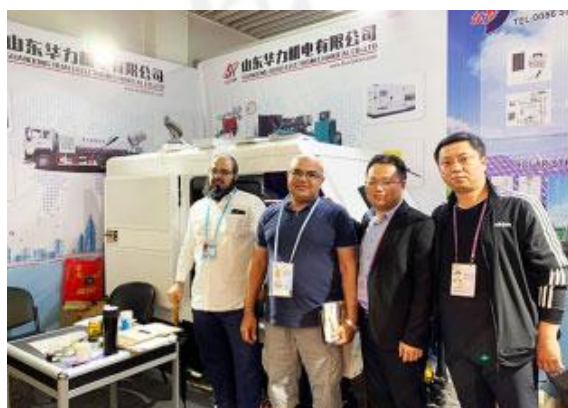
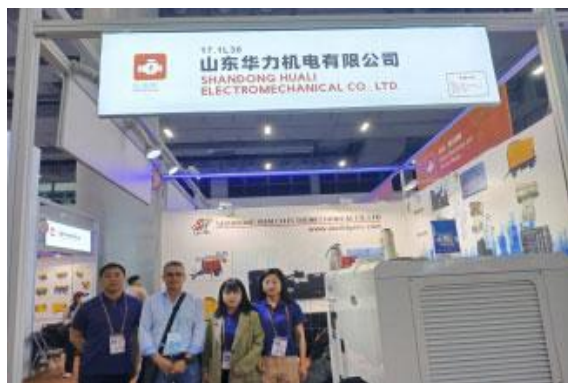
⑤ Generator Sets Exhibition Hall





⑥ We Participate Exhibitions and Foreign Clients Visiting







⑦ Photos of Some Orders for Generator Sets







⑧ Customer Cases of National Troops



⑨ Customer Cases of Mining





⑩ Customer Cases of Data Center





⑪ Our Strategic Partners





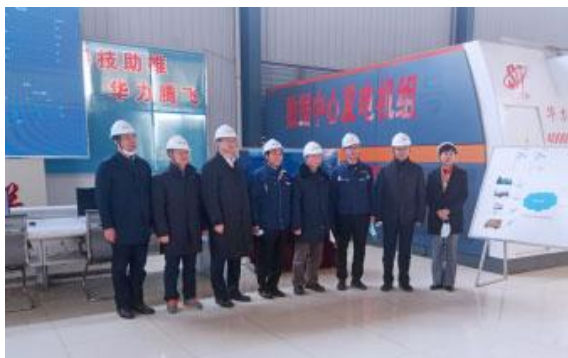
⑫ Major Events in Enterprise Development

- 1 In June 2011, the city-wide observation meeting was held in our company.
- 2 In July 2011, the inauguration ceremony of the new company.
- 3 In July 2011, the China Generator Set High-end Forum was held in our company.
- 4 In October 2011, leaders of the Shandong Provincial Party Committee came to our company to inspect and guide our work.
- 5 In April 2012, the Secretary of the Jining Municipal Party Committee came to our company to inspect and guide our work.
- 6 In May 2012, 800 sets generator sets for drought and flood controlling were successfully delivered.
- 7 In September 2012, first high-voltage generator set appraisal meeting was held in our company.
- 8 In March 2016, the launching ceremony of the “Two Centers” of was held.

- 9 On December 1, 2017, Shanhua Intelligent Cloud Service Platform project won the second prize in the Entrepreneurship Team Group of the 3rd Shandong Entrepreneurship Competition.
- 10 From August 16 to 18, 2018, we participated in the 2018 China Machinery and Electronics (Philippines) Brand Exhibition.
- 11 In July 2019, more than 100 sets Tiandimei spray cannons were successfully delivered.
- 12 On January 22, 2020, we were rated as a gazelle enterprise in Shandong Province.
- 13 Some sets Tiandimei fog cannon truck were exported to the Middle East.
- 14 In January 2021, Liu Jiayi, Secretary of the Shandong Provincial Party Committee, visited the company for investigation
- 15 In January 2022, four sets 2200KW 10.5KV MTU high-voltage generator sets were successfully delivered to customers.
- 16 In September 2022, we won the honorary title of national-level specialized and innovative "Little Giant" enterprise.
- 17 On December 28, 2023, Jining Da'an Airport in Shandong Province was officially opened to traffic, with Huali generating units fully escorting it.
- 18 In December 2023, we were selected into the 2023 Industrial Internet Top 500.
- 19 In December 2024, Shandong Huali Electromechanical was honored with the title of "Single Champion Enterprise in Manufacturing" in Shandong Province.

Photos for Some Events





SHANHUA

PART TWO: SHANHUA COMPANY QUALIFICATION

1. CE CERTIFICATION



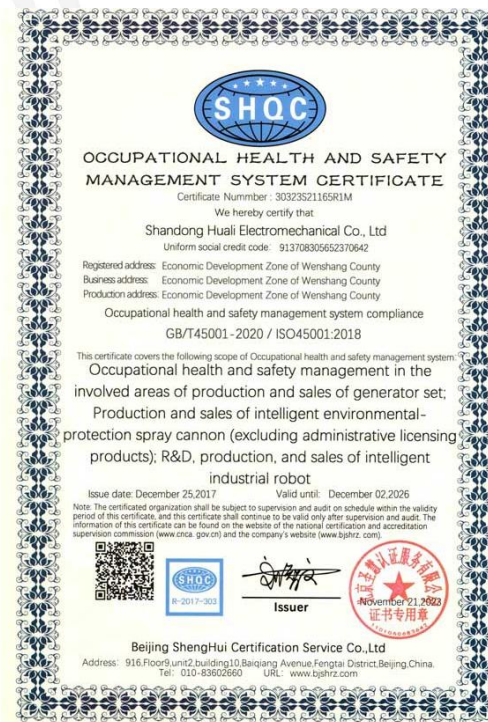
2. QUALITY MANAGEMENT SYSTEM CERTIFICATE



3. ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE



4. OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE



5.TL CERTIFICATE



6.SERVICE CERTIFICATION



7.PARTIAL PATENT CERTIFICATES







SHANHUA POWER

PART THREE:HONORS OF SHANHUA

1.NATIONAL SPECIALIZED, REFINED, AND NEW "LITTLE GIANT" ENTERPRISE CERTIFICATE



2.CERTIFICATE OF TOP 10 ENTERPRISES FOR GENERATOR SETS



3.CHINA FAMOUS TRADEMARK



4.DESIGNATED SUPPLY UNIT OF CHINESE NAVAL EQUIPMENT



PART FOUR:SHANHUA AFTER-SALES SERVICE SYSTEM

1.SHANHUA AFTER-SALES SERVICE

After-sales service is a very important link in the supply and sales system of generator sets, and it is also of great concern to the majority of users. In order to keep users' generator sets in optimal working condition, it is necessary for Shanhua to provide complete and high-quality after-sales services. Because we Shanhua have received cooperation and support from world-renowned manufacturers in the field of generator sets, we can fully guarantee the supply of various spare parts and technical support and services for users' generator sets. Shanhua has always been committed to developing complete and professional national technical support, and has opened offices in many places across the country to ensure that it provides users with the fastest technical support and assistance.

Dedicated to providing enthusiastic and satisfactory service, our after-sales service personnel have obtained service certificates after strict and professional training, so they are professional. For generator set projects, Shanhua will set up a service group specifically for generator set projects to provide timely and high-quality technical consultation, training, implementation, maintenance and other comprehensive services.

Shanhua After-sales Service Team



2.CUSTOMER SERVICE TEAM RESPONSIBILITIES

- 1.Develop project implementation plans, implementation progress, implementation specifications, acceptance standards, and implementation process management standard documents.
- 2.Coordinate service team to ensure timely services to customers.
- 3.Support engineering service and guidance, installation, commissioning, maintenance support and service of equipment in Shandong.
- 4.Develop project implementation reports and equipment operating status reports.
- 5.Responsible for the daily maintenance and service of the service system in Shandong.

3.SERVICE TYPE

①Comprehensive support

Comprehensive maintenance support includes support for the generator sets capacity design, guidance on installation and commissioning, and maintenance. It includes everything needed for the generator sets from design to put into use and to ensure that the generator sets are in optimal working condition.

②Consumer hotline(7×24hours)

When users encounter problems when using Shanhua generator sets, We will provide telephone support and assistance. Experts from Shanhua service team will solve or answer questions for customers over the phone within the specified time.

③On-site support

For problems that cannot be solved through telephone guidance, we will send professional engineers to the site to solve the problem for users.

④Response time		
Users	Phone response time	On-site response time
General (phone/onsite)	Respond immediately	Eight hours(local)/The next day(local)
Serious (phone/onsite)	Respond immediately	Four hours(local)/The next day(local)
Emergency (phone/onsite)	Respond immediately	Four hours(local)

⑤ Spare parts support

We have a parts warehouse in the our factory with a large number of spare parts. Users can quickly replace unit parts when necessary. For local users, we provide on-site parts replacement within one day, while for out-of-town users, the replacement time depends on traffic conditions.

⑥ Professional engineers

Based on user conditions, we will set up a project team to provide technical support for the project. The project team will consist of engineers, senior customer service engineers and sale managers.

⑦ Customer documents

According to the contract, we provide installation manuals, maintenance manuals and user manuals to customers. Customer requirements will be documented in the form of user problem records, user problem tracking, and user problem resolution.

4.SERVICE CONTENTS

① Provide pre-sales technical services:

Including assistance with generator set room layout

Customer consultation answers

Help with plan selection

② Provide after-sales service content:

Guided installation

Generator unit debugging

Train operators for users

Guide users on maintenance

Troubleshooting and consultation

Quickly provide spare parts

③ After-sales service scope

We have after-sales service and spare parts centers in the area where the generator set is used. We provide 24-hour free consultation service, respond within 2 hours after receiving the customer's call (or fax), and send qualified service personnel to the site to repair the diesel generator sets.

We have ready supply all year round and spare parts at favorable prices.

④After-sales service period

The diesel engine is subject to the three-guarantee service regulations of the engine manufacturer (please read the instruction manual carefully before using); the alternator is guaranteed for one year or 1,000 hours due to manufacturing quality issues, whichever comes first.

⑤After-sales service fee

We supply spare parts and wearing parts at cost price. During the warranty period, if there is a problem with all the accessories of the generator set, we will quickly repair it and replace the corresponding components if necessary. Twice a year, we provide on-site guidance to users on generator set maintenance. After the warranty period, if the user causes damage to the generator sets, our company will provide free technical services and actively help repairing it, and only charge the cost of the corresponding accessories.

5.CUSTOMER TRAINING

①Training materials

Generator set operation manual

Generator set control system

Principle of parallel system of generator sets

Diesel generator set installation manual

Engine repair manual

②Factory training

System theory professional training

Engine principle and structure

Engine and generator troubleshooting

Engine overhaul

Parallel control system operation and troubleshooting

Principle and operation of generator set control system

③On-site training

Generator set operation

Routine maintenance of generator set

Engine controller operation and troubleshooting.

ATTACH: <TRAINING COURSE>

No.	Teaching topic	Teaching contents	Arrange class time
1	Introduction to generating sets	Basic information of generator set	1
2	Engine working principle	Basic knowledge and working principles of engines, the principle and structure of engines to supporting generator sets	4
3	Introduction to engine electronic management system	Functions and working principles	2
4	Engine maintenance	Routine maintenance, maintenance, safety matters	1
5	Introduction and principles of alternator	principle, composition and control system of alternator	1
6	Principle of diesel generator control system	controller introduction, working principle, drawing analysis	3
7	Principle of paralleling of generator set system	Paralleling principle, paralleling method, description of paralleling process	1
8	Principles of high-voltage switchgear for generator sets	Introduction of high-voltage switchgear, electrical principles, drawing analysis, and precautions	1
9	Troubleshooting of alternator	Common Troubleshooting Methods	1
10	Emergency fault handling operations	Master the emergency operation methods	1
11	Generator sets on-site operation training	Familiar with the basic components of the unit, on-site operation steps, and relevant operating precautions	3
12	Train personnel for on-site operation	On-site operation	4
13	Exams	Theory exam	2
		On-site operation exam	3

6.CUSTOMER SERVICE MANUAL

①Service concept:Serving customers and creating value for them

②Service tenet:

Respect customers and treat them with sincerity. Maintain corporate interests and maintain good customer relationships. Respect the customer's time, respect their labor, and respect their secrets.

The principle of 10-1=0.

Put yourself in the shoes of your customers.

After-sales service focus on quality.

Service persons must understand that their words and deeds not only represent individuals, but also represent the company. Everything you say and do must have the interests of the team and the company at heart.

③Service standards:Customer satisfaction is the only standard of our service.

④Service principle

Higher service awareness than competitors

Better service than competitors

Faster service than competitors

Stricter service standards than competitors

⑤Service Process

Receive a call from the user or a system prompt message for repair.



Learn more about the customer's generator set, analyze problems, and provide telephone guidance.



We decide whether to send an engineer (if so)



Have service accessories ready



We arrange the itinerary



We specify service days



Maintenance engineers report the day's work before 5 o'clock every day.



Maintenance engineers make service records and take photos.



Have users sign and stamp.



Generator set maintenance information archive.

SHANHUA POWER

PART FIVE: SHANHUA TECHNICAL DOCUMENTS

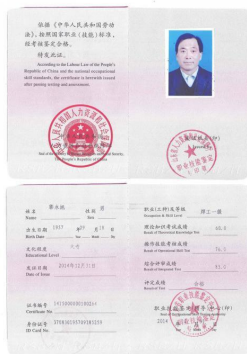
1. MAIN PERFORMANCE INDICATORS, TECHNICAL SPECIFICATIONS AND STANDARDS FOR PRODUCT MANUFACTURING EXECUTION.

- GB12786 General Technical Conditions for Automated Diesel Generator Sets
- GB/T2820-2009 General Technical Conditions for Power Frequency Diesel Generator Sets
- GB10585 Basic Technical Requirements for Excitation Systems of Small and Medium-sized Synchronous Motors
- ISO10528-1 "Reciprocating Internal Combustion Engine Driven AC Generator Set"
- ISO8528 (equivalent to GB/T2820.1-1997) Standard for Reciprocating Internal Combustion AC Generator Sets;
- ISO3046 Performance Standard for Reciprocating Internal Combustion Engines;
- GB12786 General Technical Requirements for Automated Diesel Generator Sets;
- GB/T4712 Classification Requirements for Automated Diesel Generator Sets;
- Chinese National Electrical Design Code;
- GB12655 Wet Heat Test Requirements for Motors Used under General Environmental Conditions;
- Chinese National Electrical Design Code;
- IEC International Electrotechnical Commission Standards;
- GB/T 15548 General Technical Requirements for three-phase synchronous Generators Driven by Reciprocating Internal Combustion Engines
- GB/T 7409.1 Synchronous Motor Excitation System
- GB/T 11348.2 Measurement and Evaluation of Radial Vibration of Rotating Machinery Shafts
- JB/T8445 Test Method for Negative Sequence Current Carrying Capacity of Three Phase Synchronous Motors
- GB11021 "Evaluation and Classification of Heat Resistance of Electrical Insulation"
- GB2900 Electrotechnical Terminology
- GB4208 Housing Protection Level (IP Code)

2.SOME TECHNICAL ENGINEERS OF SHANHUA

No.	Name	Gender	Age	Education	Professional title/qualification	Major	Experience year	Position
1	Yongxu Guo	Male	68	Bachelor's degree	Engineer	Mechatronics	42	Technical engineer
2	Lifeng Lin	Male	45	Doctorate	Senior engineer	Communication and Information Systems	4	Technical engineer
3	Jing Hu	Male	41	Bachelor's degree	Senior engineer	Mechatronics	13	Mechanical & Electrical engineer
4	Hongkui Ma	Male	39	Bachelor's degree	Senior engineer	Electronic Information Engineering Technology	10	Electrical engineer
5	Mingpeng Wang	Male	39	Bachelor's degree	Senior engineer	Electrical Engineering and Automation	10	Mechanical & Electrical engineer
6	Hongbing Xin	Male	47	Junior college	Assistant engineer	Mechanical Engineering	20	Technical engineer
7	Shuanzhu Li	Male	38	Bachelor's degree	Senior engineer	Mechatronics	11	Technical engineer
8	Zhongli Ma	Male	34	Junior college	Mid-level engineer	Mechatronics	8	Technical engineer
9	Jinlong Guo	Male	43	Bachelor's degree	Mid-level engineer	Mechatronics	12	Technical engineer
10	Hua Tian	Female	38	Junior college	Mid-level engineer	Mechatronics	10	Technical engineer

3.SOME PHOTOS OF OUR ENGINEERS CERTIFICATIONS



PART SIX:OEM AUTHORIZATION CERTIFICATES

PERKINS CERTIFICATE

ENGINE

OEM CHONGQING CERTIFICATE

CUMMINS

GOEM



CUMMINS CERTIFICATE

ENGINE

GOEM GUANGXI YUCHAI ENGINE CERTIFICATE



**WEICHAI POWER
CERTIFICATE**



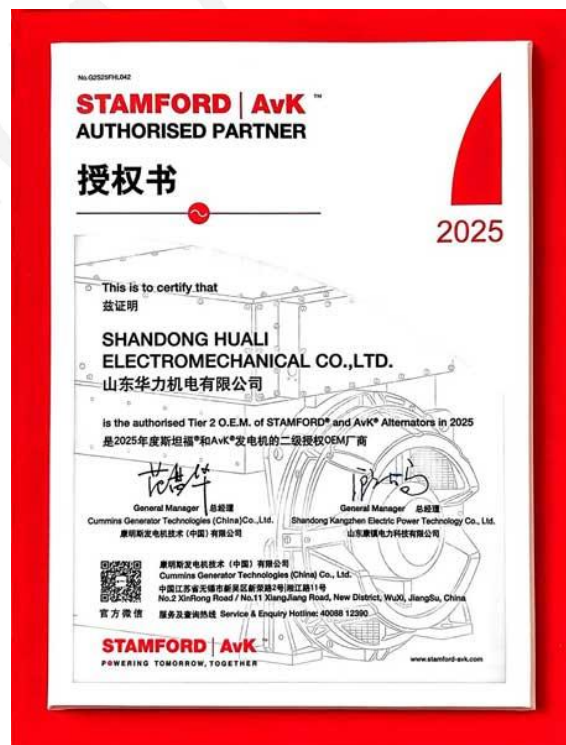
**OEM LEROY-SOMER ALTERNATOR OEM
CERTIFICATE**



MARATHON OEM CERTIFICATE



STAMFORD OEM CERTIFICATE



CONTACT DETAILS



PHONE

+86 159 5312 5015



EMAIL

sales48@industrial-generator.com



WHATSAPP

+86 159 5312 5015



ADDRESS

No. 1777 Hongfu Road Wenshang
County Jining City Shandong
Province, China

SHANHUA POWER