**About ZG**

*Sichuan Zhongguang Lightning Protection Technologies Co., Ltd.* (Abbr. as ZG) founded in 1987 has been dedicating itself to the protection against lightning for over 26 years and provides various professional protection solutions and advanced products for the safety of human beings and its properties.

The **founder** and the ZG elite team devote and exert themselves to the continuous development in science and technologies of lightning protection, so as to meet nowadays demand in this field.

**Mr. Wang Deyan:**
- Founder & Chairman of ZG Lightning Protection Technologies
- Senior Member of IEEE
- Director of CECS/LP, TC-43
- Deputy Director of SAC/TC258
- Chief Editor of China National Standards of Technical Code for Lightning Protection

As a leading enterprise, ZG not only has prominent advantages in brand, industrial position, technology, facility, team talents, but also has made great achievements in standardization and market recognition.
Our Core Values

Mission
“Contribute to lightning protection, Beneficial to human beings, Develop the first-class industry and Create better life for society”

Vision
Based on world latest lightning protection technologies and advanced management system along with the recruit of international elite team, we strive to be the first choice and best partner of customers and develop our company into a world-class famous lightning protection enterprise.

Values
Research, Innovation, Implementation, Creditability

Business Philosophy
Take the lightning protection as the main industry
Strengthen the research in core technology
Consolidate the domestic leading position
Develop international market actively

Management Concept
Lay stress on process management and efficiency
Emphasis on marketing and achievement orientation
Exert professional project management and solution verification

Quality Concept
Live on Quality, Develop by Quality
Quality decides Brand, Quality wins Market
ZG is one of the earliest and biggest professional enterprise in China’s lightning protection field. Through over 26 year’s efforts by ZG people, the company possess advantages in brand, industrial position, technology, facility, team talent, market and strategic orientation influence.

### Industrial Position

- Famous brand in lightning protection field
- Member of National Lightning Protection Standardization Technical Committee
- Main editor of Chinese lightning protection standards
- Many times attending IEC/TC81 conference representing China
- Pioneer in theory research & engineering practice of lightning protection
- Global professional lightning protection solution provider
- Global advanced lightning protection products provider

### ZG Milestones

- In 2000, Chief Editor of National Standards of Technical Code for Lightning Protection
- In 2001, Deputy Director of SAC/TC258
- Since 2002, attended the meeting of IEC/TC81 on behalf of China
- In 2007, Director of CECS/LP, TC-43
- In 2007, Deputy Director of Lightning Commission, Chinese Meteorological Society
- In 2009, plenipotentiaries member of China Communications Standardization Association
- In 2010, the first company awarded the title of "Lightning Protection Experimental Base of Communications Industry" by China Association of Communications Enterprises
- In 2011, Chairperson of the organizing committee of 2011 Asia-Pacific International Conference on Lightning (7th Asia-Pacific Lightning Protection Forum)
- In 2012, authorized by China Association of Standardization and China Association for Engineering Construction Standardization to prepare the Preparatory Committee of Asia-Pacific Lightning Protection Industrial Forum
- In 2013, awarded the title of “Model Company for Product Quality” by government

### Three Qualified Professional Centers

- **Engineering Research Center**

‘ZG Lightning Protection Engineering and Lightning Protection Theory Research Center’, a professionally authorized ‘Research Center’ by government for research on engineering projects and theoretical analysis, including site survey, project design, construction and system installation. The Center edits and co-edits 11 national lightning protection standards and 15 industrial lightning protection standards.
Technology Center

‘ZG Lightning Protection Products and Components Research and Development Center’, a government accredited ‘Center’ for R&D of lightning protection products and components. With obvious research achievements accredited by professional authorities, the Center is able to provide more than 400 kinds of protection products which can meet the requirements of any kind of engineering application. All product series have self-owned intellectual properties and certified by legal and famous authoritative organizations, among them more than 200 products have the certificates of UL, CE, CB, ETL, TÜV, China MIIT certification of conformity and etc.

Testing Base

‘ZG Lightning Protection Products and Lightning Protection Engineering Testing Center’ —one of the National Level “Testing Base”, is qualified for testing of lightning protection products and engineering applications. The Testing Base is authorized by CNAS (China National Accreditation Service for Conformity Assessment) /ILAC (International Laboratory Accreditation Cooperation) and is the CNAS/ILAC accredited laboratory. The Base is also qualified for UL, TÜV Rheinland and TÜV SUD, as well as UL, TÜV Rheinland Witness Test lab, and TÜV SUD External Test Laboratory (ETL).

Scientific Management

As a pioneer in lightning protection field, ZG is the first company qualified for ISO9001, ISO14001, and OHSAS1800 certificates in China. Based on qualified management system, ZG keeps continuous improvement through introducing advanced management methods, such as Chief Quality Officer Management System, Performance Excellence Mode and etc.

Customers Cooperation

ZG has long term cooperation with leading customers in various industries, such as communications equipment provider, communication operator, customers in power industry, green energy industry (wind power, photovoltaic power generation), petrochemical industry etc.
Corporate Social Responsibility

Our Policy

- Complies with international rules and national laws & regulations
- Safeguards the legitimate rights and interests of stakeholders
- Promotes a healthy market environment with freedom, humanity, no discrimination, no corruption and no disorder

Our Service

As a global advanced product supplier and professional lightning protection solution provider, ZG actively plunges itself in theoretical research, establishment of protection standards and manufacturing of various products, so as to make contributions to the lightning protection and relief of human disasters.

ZG product and service involve a number of industries, including telecommunications, highways, buildings, electric power, new clean energy, national defense, petrochemical, civil aviation, railways, banking, securities and weather forecast etc.

Nowadays, in the shortage of energy worldwide, ZG advocates low carbon environmental protection. Our goal is to continuously provide green, safer and economical solutions to our customers and to human society.

Our Employees

We believe that an open and harmonious work environment can maximize the possibility of success to our employees, customers and parties affiliated. We respect the diversification of staff recruited, encourage employees to grow by continuous training.

Through management of OHSAS18001 on health and safety, ZG provides safe and healthy working environment for its employees and completely abide by laws and regulations related.

Environmental Responsibility

Based on the ISO14001, ZG incorporates the concepts of environmental protection into company's management and operations so as to achieve environmental sustainability.

ZG also makes constant efforts to find new ways and means to reduce any risk adverse and impact on environment during production and business operations.

Business Integrity

ZG lays stress on business credibility and staff regulations, and is always against any behavior related to bribery or in violation of business integrity wherever there is in supply chain or parties related.

Purchasing Policy Statement About Conflict-free Minerals

In 2010 the U.S. Congress passed the "Dodd - Frank Wall Street Reform and Consumer Protection Act," this bill requires no "conflict minerals" purchases (referring purchases of tin, tantalum, tungsten, gold, cobalt and other minerals originally coming from the Democratic Republic of Congo or neighboring war countries). The main...
reason is that these minerals sales provide financial support to the countries in war which bring about human rights violations, environmental degradation and other bad influence.

Abiding by EICC (Electronics Industry Code of Conduct), ZG is not associated with this purchase of "conflict minerals" and also requires all its suppliers including materials suppliers, carriers and other service providers to conduct due diligence and act according with the Code & Act concerned.

**Social charity activities**

ZG keeps in mind of the social responsibilities and persists with the love to feedback to the society, such as establishing "ZG Hi-tech Lightning Protection Scholarship" in universities of Nanjing and Chengdu.
Management Systems

ZG establishes Quality, Environmental, Occupational Health & Safety systems and incorporates management of Social Responsibility & Hazardous substances and Risk control into its systems. Every year the management systems are many times checked by ISO9001, ISO14001, OHSAS18001 and GJB9001 third party audit and by world famous international and domestic customers. therefore a continuous improvement is always achieved.

Quality Policy:
- Promote advance management idea
- Keep technical competitive advantages
- Pursue improvement persistently
- Focus on customer requirements

Environment Policy:
- Abide by environmental laws& regulations
- Efficiently utilize resources & energy
- Continuously improve management
- Deliver best quality products

Occupational Health & Safe Policy:
- People oriented
- Prevention first
- Be disciplined & law-abiding
- Continue improvement

Corporate Social Responsibility Policy:
- Comply with international standards and national laws and regulations
- Safeguard the legitimate rights and interests of stakeholders
- Create environment with freedom and humanity, health and safety
- To be against discrimination & corruption
- Keep on continuous improvement
Qualifications and Certifications

Management Systems
ZG management certificates mainly cover ISO9001、ISO14001、OHSAS18001 Systems

Laboratory Qualifications
ZG Testing Base is accredited by CNAS (China National Accreditation Service for Conformity Assessment), and mutually recognized by ILAC (International Laboratory Accreditation Cooperation). The Base is qualified for UL, TÜV Rheinland and TÜV SUD, as well as UL, TÜV Rheinland Witness Test lab and TÜV SUD External Test Laboratory (ETL).

Product Certifications
All products pass through the tests by national authorized professional organizations. There are more than 200 products qualified for UL, CE, CB, ETL, TÜV, MIIT certification of conformity, etc.

Design and Construction
ZG is the earliest enterprise in China qualified for both engineering design and construction in class A of lightning protection.
Sichuan Zhongguang Information Protection Engineering Co., Ltd. (hereinafter referred to as "ZG Engineering"), a wholly owned subsidiary of ZG, is specialized in modern lightning protection technology applications, lightning protection engineering design and construction, installation and technical services.

ZG Engineering is of rich experience through application of over thousands of engineering projects and is the earliest organization qualified for Class A certificate both in engineering design and engineering construction authorized by government. Typical projects are --- lightning protection for Qinghai-Tibet railway in tundra area, East-west gas transportation pipe, Jiu-Quan satellite launching base etc.

ZG Engineering has set up many observation stations for recording of lightning phenomenon and testing fields for earthing to get the first-hand records to support the research and product verification.

Sichuan Zhongguang Lightning Protection Technologies Co., Ltd.

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Due to the fan in an exposure position, it suffered from lightning strike probability is very high. A large number of electrical and electronic equipment are integrated in the wind power generating system, these devices are concentrated in a small size space in the system, so the lightning surge would give wind power units serious damages. **ZG** can provide a lightning protection solution for the wind power generation system:

- Direct lightning protection
- Shielding
- Equipotential bonding
- Reasonable wiring
- Integrated grounding system and SPD installation
Solution of Photovoltaic Power Generation System

As to the construction of PV power generating system, it is necessary to consider the impact of the local lightning. The statistics shows that if the lightning strike causes damage on single PV solar panel, it will lead to loss of 20~30% power generation of the panel and if lightning causes the damage on inverter, it will lead to 10% loss of total investment amount. Therefore an integrated lightning protection is a must to prevent and reduce losses in PV power generation system.

ZG can provide a lightning protection solution for the PV power generation system:
- Direct lightning protection
- Shielding
- Equipotential bonding
- Reasonable wiring
- Integrated grounding system and SPD installation.
All the products are certificated by TUV and compliance with EN 50539-11:2013.

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Due to the antenna system of RBS in an exposure position, it suffered from lightning strike probability is very high.

A large number of electrical and electronic equipment are integrated in the RBS system, these devices are concentrated in a small cabinet, so the lightning surge would give the RBS system serious damages. Therefore an integrated lightning protection is a must to prevent and reduce losses in the RBS system.

ZG can provide a lightning protection solution for the RBS system:

- Direct lightning protection
- Shielding
- Equipotential bonding
- Reasonable wiring
- Integrated grounding system and SPD installation.


**Sales and Market**

**Management Philosophy**
Marketing is the locomotive of enterprise development;
Market demand is the policy orientation;
Credibility is our service principle;
Technology innovation is the key for market chance;
Lay stress on main market development.

**Sales System**
Complete Sales Network —
6 divided sales departments, 3 regional offices, and more than 300 agents. covering China and international business Professional service team.

**OEM Products:**
Zhongguang also provides OEM cooperation with many well-known international companies and provides technical support to them.

**Join the Supply Chain of Global Corporations**
Core strategy defined in 2003: Begin the process of Globalization by way of joining the supply chain of global corporations
Help the global corporations to improve their cost competitiveness and increase their R&D speed: a win-win solution.

**Join the supply chain of main top 500 global Application Fields**
Application Field Widely used in pillar industries such as telecom, railway, petroleum electric power, military industry, heavy industry clean energy industry and construction, etc.