

ZINVERT

智能高压变频调速系统产品手册

ZINVERT Intelligent High-voltage Variable Frequency Device Product Brochure





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Company Introduction

PCS

(SVG)

/

UPS

Guangzhou Zhiguang Electric Technology Co., Ltd. is a core member enterprise of Guangzhou Zhiguang Electric Co., Ltd. specializing in the research of flexible power technology in the strategic development direction of integrated energy technology and services.

Since its establishment, the company has been focusing on the research of electrical control equipment technology with high-power power electronics as the core technology, and has carried out technological research and industrial application in the fields of smart grid, distributed microgrid, energy storage, motor control and energy conservation, power quality control, advanced power supply technology, etc. The main products include neutral point grounding devices for distribution networks, high-voltage variable frequency speed regulation devices, energy storage PCS systems, static var generators (SVG), port shore power systems, high/low-voltage power quality management, and large industrial intelligent UPS, etc.



“ An Expert in Technological Innovation of High-power Electronics. ”



“ To Help Customers Use Energy Safely, Efficiently and Comfortably. ”

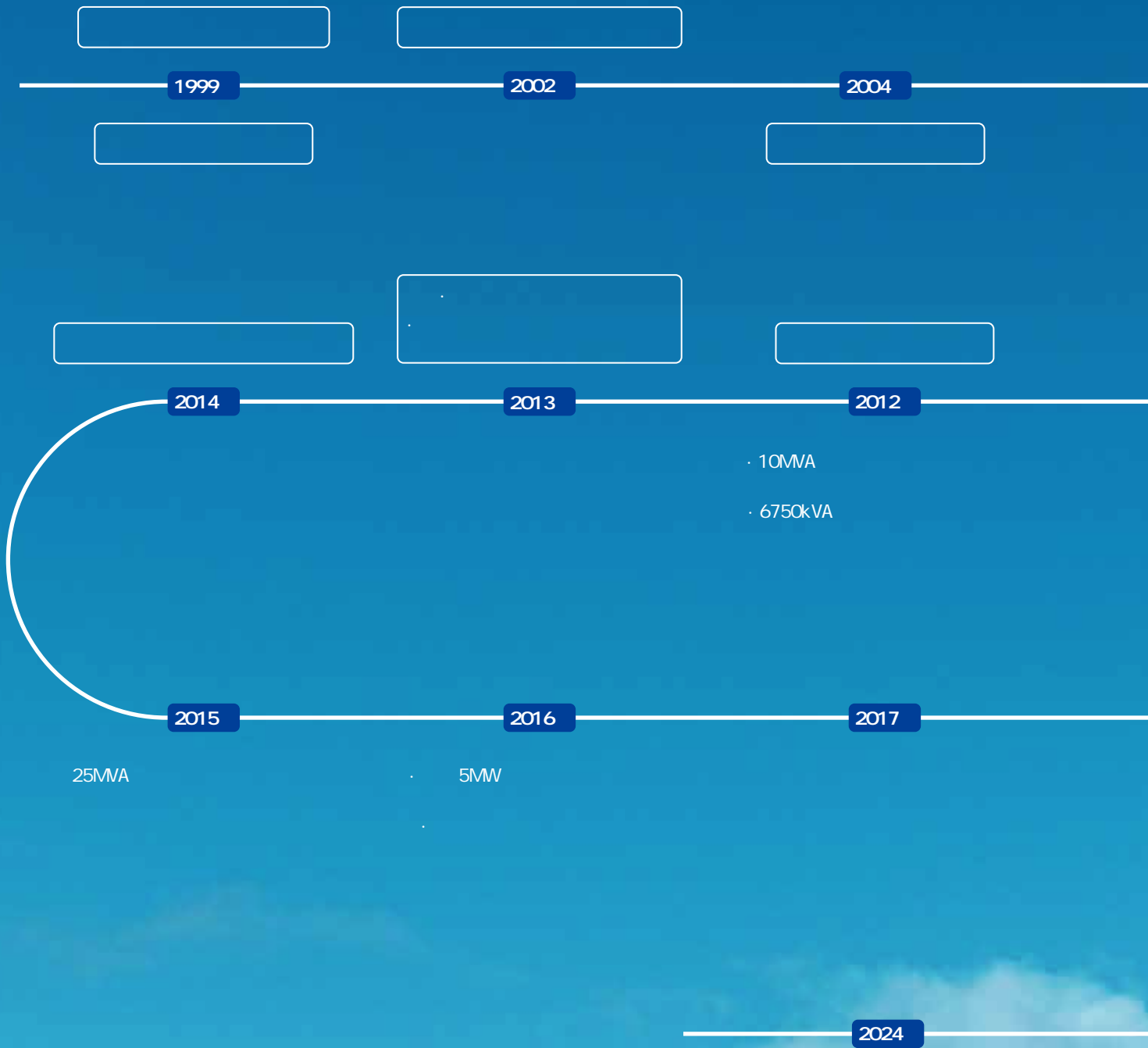
Establishment Time: 2002

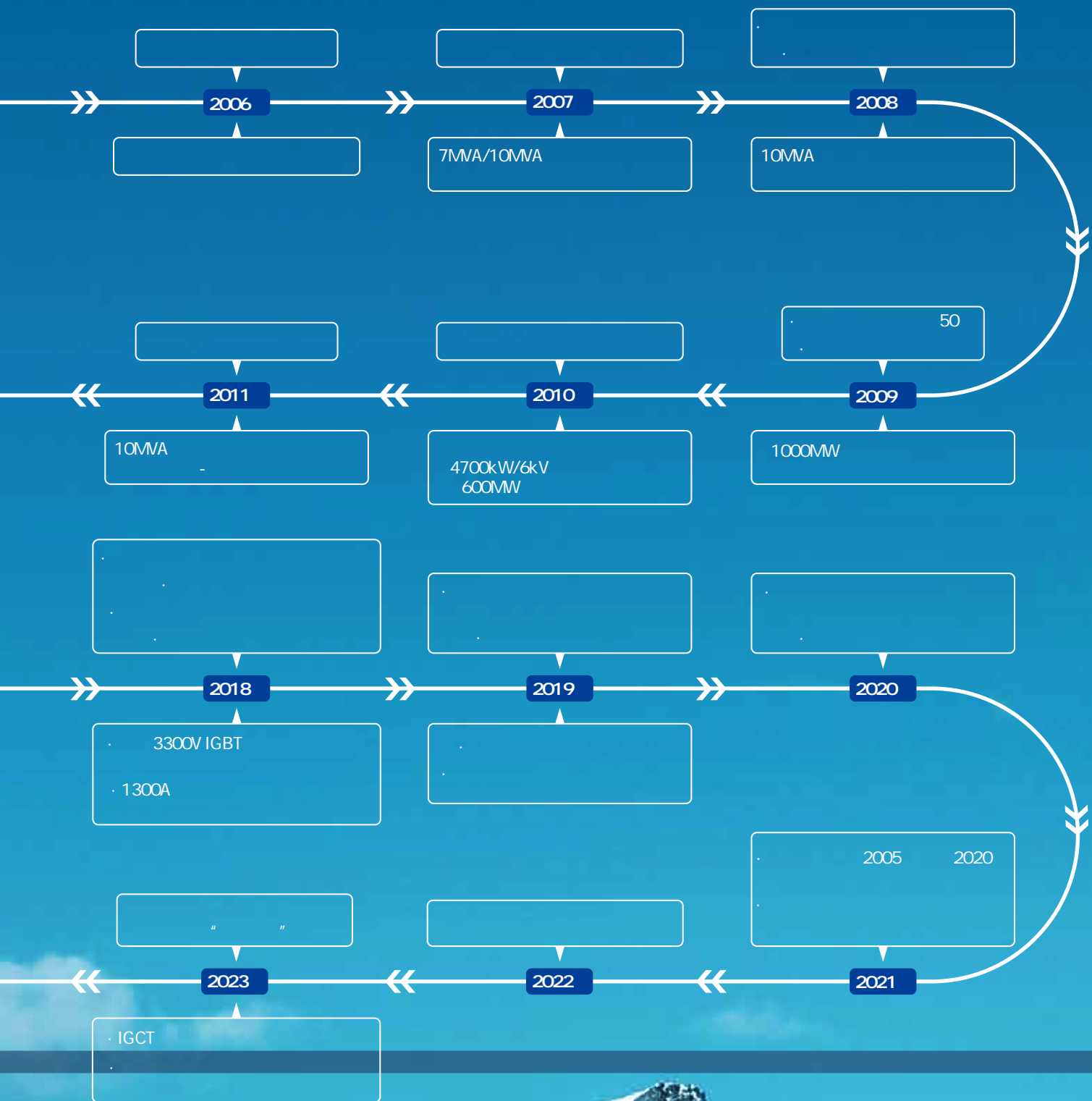
Registered Capital: 200 million yuan

Wholly-owned subsidiary of Zhiguang Electric Co., Ltd.

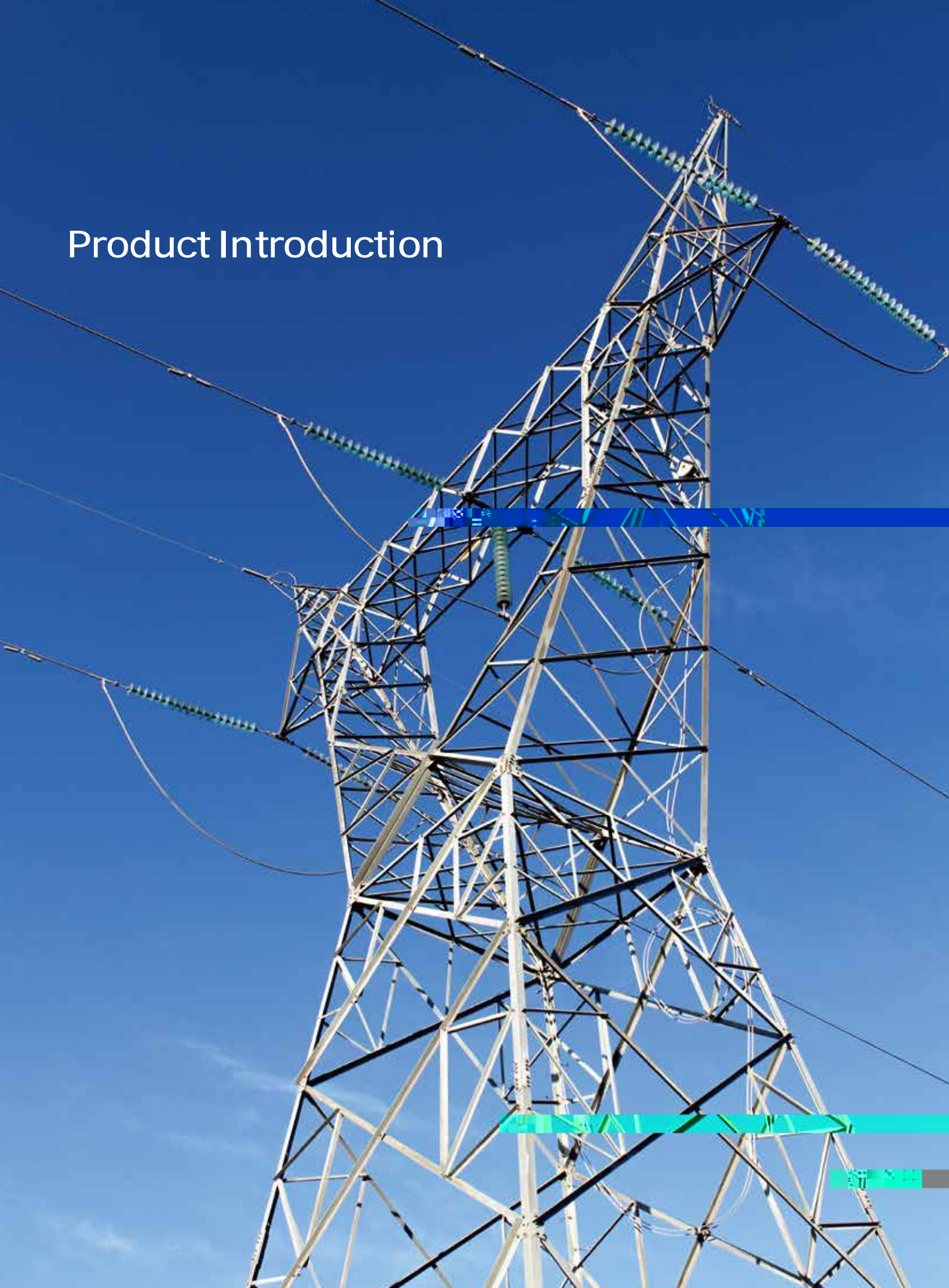
More than 300 patents and honorary qualifications

1.1





Product Introduction



2.1 ZINVERT

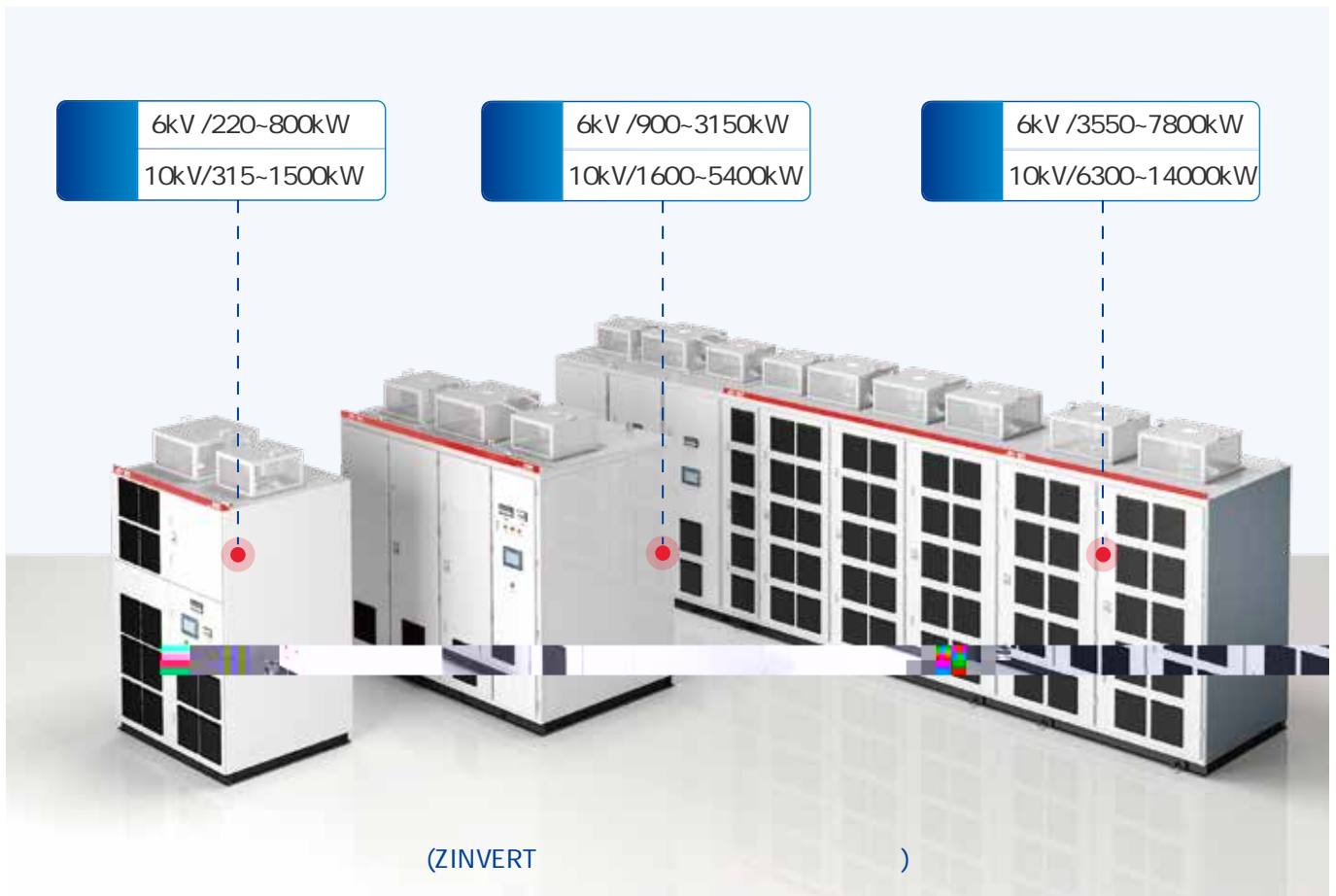
ZINVERT Intelligent High-voltage Variable Frequency Device(HVFD Introduction

ZINVERT

10kV 6kV

HVFD through the phase shifting transformer on the input 10kV or 6kV voltage after phase shifting step-down, by the power unit rectifier inverter and superposition of each phase after the output, to achieve the real high-high frequency conversion speed control.

- High power density all-in-one cabinet type, chassis type power unit, suitable for single person maintenance operation;
- Advanced speed tracking algorithm, real-time monitoring of unit operation and maintenance, to ensure rapid start-up in full working conditions;
- Optimised system-wide logic control strategy, which ensures fast restart after high voltage loss;
- Rigorous thermal analysis design, which not only ensures heat dissipation but also greatly reduces installation space and infrastructure costs.
- Adopting multi-stage H-bridge power unit box cascade to realise the perfect waveform output of high voltage, it can directly drag ordinary asynchronous motor without boosting.
- Without adding any filter, and the harmonic index meets the most severe requirements of IEC and national standard on grid harmonics.



2.2 ZINVERT

HVFD Eight Advantages



Superior high and low voltage ride-through technology

65 115 U_e

60s

It does not shut down in the range of 65% to 115% U_e fluctuation of the grid-side voltage, and within 60s of the grid-side voltage dropout, it starts by itself without shock and drags the motor to the state before the power dropout.



" STT "

Direct starting of rotating loads with proprietary "STT" technology

" STT "

Adopting the original "STT" algorithm, it ensures that the motor can be started without stopping at any speed within the speed range, and can be started directly without impact, which has been verified by the test of the national organisations.



" SCP "

High-voltage output sudden short-circuit "SCP" protection technology

" SPC "

Adopting the patented "SPC" protection technology with multiple short-circuit protection functions, it can effectively protect the safety of the motor and the system.



Separate power supply technology for transformers with high short-circuit insulation impedance

Low-voltage debugging mode enables convenient

debugging and easy problem troubleshooting, shortens the debugging cycle, and improves reliability.



Adaptive acceleration and deceleration adjustment

Improve the short-circuit resistance of the transformer, guarantee the stability of the power supply of the unit, reduce the losses generated by daily operation, and save energy and increase efficiency.



Unique cooling structure adapts to air-cooled and water-cooled flexible design

Adopting special structural design, high heat dissipation efficiency, small system volume, low requirements for temperature, humidity, dust, gas and other environmental requirements, air-cooled, water-cooled to meet the needs of customers in multiple scenarios.



Low power sensitivity and high operational stability

Adopt three-

way power supply circuit design, low sensitivity to power supply. Adopt software and hardware multiple anti-interference technology to ensure the stability of system operation.



The whole machine is self-developed and produced to ensure quality and cost competitiveness.

Based on Zhiguang's many years of high-power electronics technology and patented technology, self-developed and produced of power units, phase-shifting transformers, control systems and other core components, to ensure product quality and cost advantages.

2.3

Main performance indicators

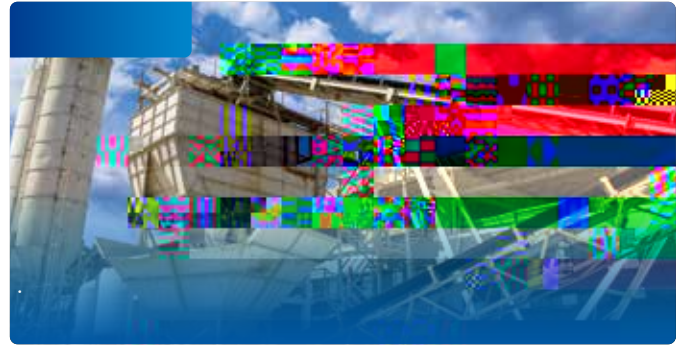
| | | |
|---------------------|--|---|
| voltage | 2.3kV 3kV 3.3kV 6kV 6.6kV 10kV | |
| output | overload capacity | 130%In 1min/10min 180%In 130% In 1 min/10min; 180% In immediate protection; |
| | voltage | 0-Un Carrier phase-shifted superimposed waveform |
| | frequency | 0-50Hz/60Hz |
| | THD | <2% rating |
| input | phases frequency | three-phase 50/60± 5%Hz |
| | voltage range | rating /-15% ~35% reduced rate |
| | power factor | >0.96 20% Greater than 20% load |
| control | Startup frequency | 0.1 10Hz |
| | / Input/Output Interface | / 16 1 5 Standard: 16 digital inputs/outputs each; 1 analogue input, 5 outputs |
| | communication interface | RS232 RS485 RJ45 |
| | Signal isolation | opto-isolation |
| | accuracy | 0.1% ± 2% Frequency stability accuracy 0.1%; voltage accuracy ± 2% |
| | efficiency | >97% rated >96% 20% >20% rated |
| | torque increase | 0~10%Un configurable |
| | acceleration and deceleration times | 0 3000s configurable |
| | Instant power-down and restart | 0.1 30s) Restart mode optional, waiting time 0.1 30s (settable) |
| | PLC Built-in PLC calibration | PID / Manual/automatic adjustment of PID parameters |
| display | Touch-sensitive human-machine interface | Real-time data, device status, parameter settings |
| protective function | IGBT Over-current, short-circuit, grounding, over-voltage, under-voltage, overload, overheating, motor overload, phase loss, IGBT breakdown or short-circuit, unit fault, high and low voltage ride-through, etc. | |
| failover | System bypass, unit bypass | |
| noise | <75dB all | |
| environment | location | 5000m 1200 1200-5000 Indoor: up to 5000m above sea level (standard 1200m above sea level, customised for 1200-5000m) Outdoor: prefabricated cabin No corrosive, explosive gas, dust, no direct sunlight. |
| | / temperature/humidity | -5~+45 20~95% Temperature: -5 to +45°C; Humidity: 20 to 95%, no condensation |
| | vibration | 10-150HZ 0.5g |
| | storage | -20-70 |
| cooling method | Forced air, water and evaporative cooling | |

2.4 Business Models

2.4.1 Application Scenarios



Thermal power generation: induced draft fan, supply fan, dust-absorbing fan, booster fan, compressor, condensate pump, feed water pump, make-up water pump, grey slurry pump, and so on.



Cement manufacturing: kiln head exhaust fan, kiln tail exhaust fan, high-temperature fan, main dust-absorbing fan, cooler dust-absorbing fan, cooler exhaust fan, preheating tower fan, sorter fan, etc.



Metallurgy: main extractor fan, blast furnace blower, dust removal fan, slurry pump, descaling pump, centrifugal feed pump, elevator, semi-automatic mill, etc.



Mines: Main ventilation fans, pressurised fans, extractor fans, air compressors, pumps, belt conveyors, mills, etc.



Municipalities: sewage pumps, clean water pumps, purification pumps, biological crude treatment tower pumps, oxygen delivery blowers, etc.



Papermaking: pulper, grinder, pulveriser, papermaking machine, rewinder, etc.



Petrochemical: induced draft fan, gas compressor, water injection pump, submersible oil pump, main pipeline pressurised pump, boiler feed pump, brine pump, mixer, squeezer, etc.

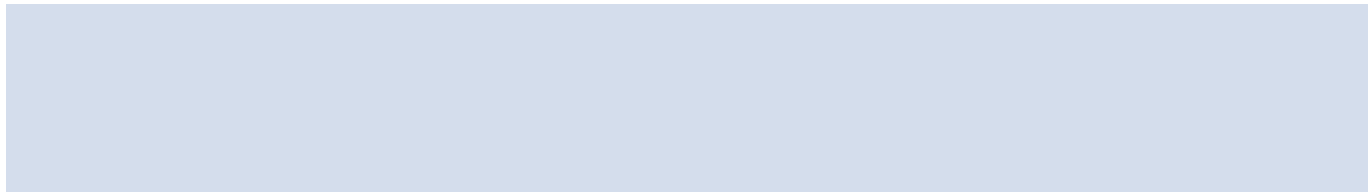
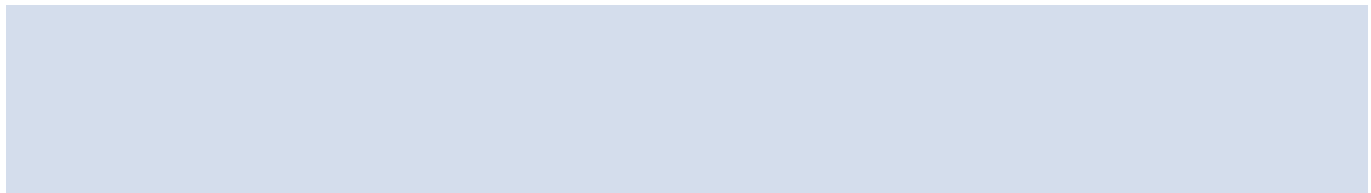
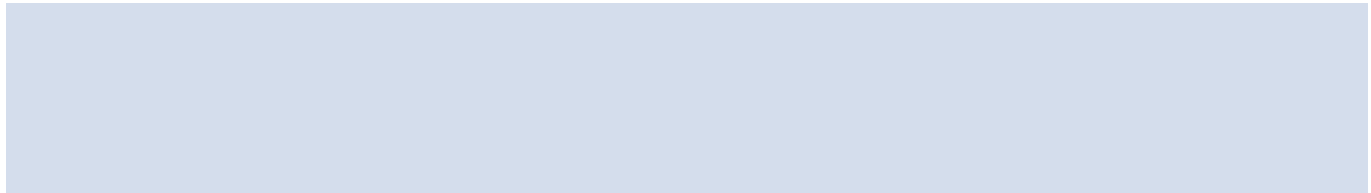


Others: Synchronous belt drive mechanical devices, mine hoist, wind turbine, energy return laboratory, drag control, wind tunnel, rubber, military and other industries.

| | | |
|--|--|--------------------|
| | | 3 ² 450 |
|--|--|--------------------|

220

30



| | | | | | | | | | |
|----|------|---------------------|------|-------|-------|------|------|-------|-------|
| 33 | 4500 | Zinvert-A6H5600/06 | 540 | 9200 | 10800 | 2910 | 1586 | 13776 | 15276 |
| 34 | | Zinvert-A5H5600/06 | | 9200 | 10800 | 2910 | | 13317 | 14817 |
| 35 | 5000 | Zinvert-A6H6300/06 | 600 | 9400 | 10800 | 2910 | 1586 | 15438 | 16938 |
| 36 | | Zinvert-A5H6300/06 | | 9400 | 10800 | 2910 | | 14979 | 16479 |
| 37 | 5600 | Zinvert-A6H7000/06 | 720 | 9400 | 11000 | 2910 | 1586 | 15438 | 16938 |
| 38 | | Zinvert-A5H7000/06 | | 9400 | 10800 | 2910 | | 14979 | 16479 |
| 39 | 6300 | Zinvert-A6H8000/06 | 800 | 11000 | 12600 | 2910 | 1586 | 20850 | 22350 |
| 40 | | Zinvert-A5H8000/06 | | 11000 | 12600 | 2910 | | 20250 | 21750 |
| 41 | 7100 | Zinvert-A6H9000/06 | 900 | 11000 | 12600 | 2910 | 1586 | 21650 | 23150 |
| 42 | 7800 | Zinvert-A6H10000/06 | 1050 | 13000 | 14600 | 2910 | 1586 | 23950 | 25450 |

| NO. | Motor Capacity | Inverter Model | A Rated output current | Total Length | | Height (mm) | Total Depth (mm) | kg Total Weight | |
|-----|----------------|--------------------|------------------------------|--------------|-----------|----------------|---------------------|--------------------|-----------|
| | (kW) | | | Manual | Automatic | | | Manual | Automatic |
| 1 | 250 | Zinvert-A3H315/03 | 60 | 2600 | 3200 | 2675 | 1586 | 2010 | 2310 |
| 2 | 315 | Zinvert-A3H400/03 | 75 | 2950 | 3550 | 2675 | 1586 | 2262 | 2562 |
| 3 | 355 | Zinvert-A3H450/03 | 105 | 2950 | 3550 | 2675 | 1586 | 2502 | 2802 |
| 4 | 400 | Zinvert-A3H500/03 | 105 | 2950 | 3550 | 2675 | 1586 | 2563 | 2863 |
| 5 | 450 | Zinvert-A3H560/03 | 105 | 2950 | 3550 | 2675 | 1586 | 2643 | 2943 |
| 6 | 500 | Zinvert-A3H630/03 | 120 | 2950 | 3550 | 2675 | 1586 | 2713 | 3013 |
| 7 | 560 | Zinvert-A3H700/03 | 150 | 2950 | 3550 | 2675 | 1586 | 2844 | 3144 |
| 8 | 630 | Zinvert-A3H800/03 | 150 | 2950 | 3550 | 2675 | 1586 | 2935 | 3235 |
| 9 | 710 | Zinvert-A3H900/03 | 180 | 2950 | 3550 | 2675 | 1586 | 3035 | 3335 |
| 10 | 800 | Zinvert-A3H1000/03 | 210 | 2950 | 3550 | 2675 | 1586 | 3255 | 3555 |
| 11 | 900 | Zinvert-A3H1150/03 | 245 | 2950 | 3550 | 2675 | 1586 | 3591 | 3891 |
| 12 | 1000 | Zinvert-A3H1250/03 | 245 | 2950 | 3550 | 2675 | 1586 | 3841 | 4141 |
| 13 | 1120 | Zinvert-A4H1400/03 | 270 | 4800 | 5400 | 2675 | 1200 | 4386 | 4686 |
| 14 | 1250 | Zinvert-A4H1550/03 | 300 | 4800 | 5400 | 2675 | 1200 | 4586 | 4886 |
| 15 | 1400 | Zinvert-A4H1800/03 | 360 | 4800 | 5400 | 2675 | 1200 | 4999 | 5299 |
| 16 | 1600 | Zinvert-A4H2000/03 | 400 | 4800 | 5400 | 2675 | 1200 | 5598 | 5898 |
| 17 | 1800 | Zinvert-A4H2250/03 | 480 | 6680 | 7280 | 2675 | 1586 | 6898 | 7198 |
| 18 | 2000 | Zinvert-A4H2500/03 | 480 | 6680 | 7280 | 2675 | 1586 | 7198 | 7498 |
| 19 | 2250 | Zinvert-A4H2800/03 | 540 | 7200 | 7800 | 2710 | 1586 | 7623 | 7632 |
| 20 | 2500 | Zinvert-A4H3150/03 | 600 | 7200 | 7800 | 2710 | 1586 | 8123 | 8177 |
| 21 | 2800 | Zinvert-A4H3500/03 | 720 | 7200 | 7800 | 2710 | 1586 | 8323 | 8623 |
| 22 | 3150 | Zinvert-A4H4000/03 | 800 | 7200 | 7800 | 2710 | 1586 | 8623 | 8923 |

▶ Ultra-large capacity HVFD Selection Table

| NO. | Transformer Capacity | Inverter Model | A Rated unit current output | Unit configuration |
|-----|----------------------|----------------------|--------------------------------|------------------------|
| | (kVA) | | | |
| 1 | 20000 | Zinvert-S4H20000/10F | 1150 | ZINVU-1150/45F-175D-C1 |
| 2 | 25000 | Zinvert-S4H25000/10F | 1450 | ZINVU-1450/45F-175D-C1 |
| 3 | 30000 | Zinvert-S4H30000/10F | 1750 | ZINVU-1750/45F-175D-C1 |
| 4 | 40000 | Zinvert-S4H40000/10F | 2300 | ZINVU-2300/45F-175D-C1 |
| 5 | 50000 | Zinvert-S4H50000/10F | 2900 | ZINVU-2900/45F-175D-C1 |
| 6 | 60000 | Zinvert-S4H60000/10F | 3500 | ZINVU-3500/45F-175D-C1 |
| 7 | 12000 | Zinvert-S2H12000/06F | 1150 | ZINVU-1150/45F-175D-C1 |
| 8 | 15000 | Zinvert-S2H15000/06F | 1450 | ZINVU-1450/45F-175D-C1 |
| 9 | 18200 | Zinvert-S2H18200/06F | 1750 | ZINVU-1750/45F-175D-C1 |
| 10 | 24000 | Zinvert-S2H24000/06F | 2300 | ZINVU-2300/45F-175D-C1 |
| 11 | 30000 | Zinvert-S2H30000/06F | 2900 | ZINVU-2900/45F-175D-C1 |
| 12 | 36400 | Zinvert-S2H36400/06F | 3500 | ZINVU-3500/45F-175D-C1 |
| 13 | 6000 | Zinvert-S1H6000/03F | 1150 | ZINVU-1150/45F-175D-C1 |
| 14 | 7500 | Zinvert-S1H7500/03F | 1450 | ZINVU-1450/45F-175D-C1 |
| 15 | 9000 | Zinvert-S1H9000/03F | 1750 | ZINVU-1750/45F-175D-C1 |
| 16 | 12000 | Zinvert-S1H12000/03F | 2300 | ZINVU-2300/45F-175D-C1 |
| 17 | 15000 | Zinvert-S1H15000/03F | 2900 | ZINVU-2900/45F-175D-C1 |
| 18 | 18000 | Zinvert-S1H18000/03F | 3500 | ZINVU-3500/45F-175D-C1 |

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3.1 Cooperative Partners

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The company's products have achieved regional coverage across the country and have been exported to dozens of overseas countries and regions, making contributions to the global cause of energy conservation, emission reduction, and green electric power. By using private cloud platforms and big data as technical means, the company has given full play to the advantages of the "Internet +" model and established a marketing and service platform centered on key industries, key regions, and major customers. It provides products, technologies, and comprehensive technical solutions to thousands of customers in industries such as electricity, building materials, metallurgy, chemical engineering, coal, ports, municipal administration, and new energy. Typical customers include large central enterprises (groups) such as State Grid Corporation of China, China Southern Power Grid, the Five Major Power Generation Groups, China General Nuclear Power Group, China National Building Material Group, Sinopec, PetroChina, and Baowu Steel Group.



3.2

Typical Performance

| NO. | Contract | Device Model | Motor power | load | Industry | runtime |
|-------|----------|-----------------------|-------------|------|----------|---------|
| 1 | 100MW | Zinvert-S9H18000/10 | 15000 | | | 2025 |
| 2 | 100MW | Zinvert-S9H18000/10 | 15000 | | | 2025 |
| 3 | LNG | Zinvert-A9H16500/10 | 13200 | | | 2025 |
| 4 | LNG | Zinvert-R8H13200/10 | 13200 | | | 2025 |
| 5 | LNG | Zinvert-A9H16250/10Y | 13000 | | | 2024 |
| 6 | LNG | Zinvert-R8H13000/10Y | 13000 | | | 2024 |
| 7 | | Zinvert-R8H11000/10Y | 11000 | | | 2023 |
| 8 | | ZGMMS-10/14000 | 10600 | | | 2024 |
| 9 | | ZGMMS-10/14000 | 10600 | | | 2024 |
| 10 | | Zinvert-R8H5600/10Y | 10500 | | | 2022 |
| 11 | | Zinvert-R8H8700/10Y | 8700 | | | 2023 |
| 12 | | Zinvert-A8H11250/10Y | 8500 | | | 2024 |
| 13 | | Zinvert-S10H12500/10Y | 8000 | | | 2022 |
| 14 | | Zinvert-A8H10000/10 | 7600 | | | 2024 |
| 15 | | ZGMMS-10/8900 | 7200 | | | 2022 |
| 16 | | Zinvert-A8H8900/10Y | 7100 | | | 2025 |
| 17 | | Zinvert-A8H8900/10Y | 6900 | | | 2022 |
| 18 | | Zinvert-A8H7800/10 | 6300 | | | 2024 |
| 19 | 3# | Zinvert-A6H7800/06Y | 6300 | | | 2014 |
| 20 | #3 | Zinvert-A6H6900/06Y | 6000 | | | 2016 |
| 21 | SJ15000 | Zinvert-S8H6750/10Y | 5800 | | | 2019 |
| 22 | | Zinvert-A6H7000/06Y | 5600 | | | 2015 |
| 23 | 4# | Zinvert-A6H6900/06Y | 5500 | / | | 2015 |
| 24 | | Zinvert-A6H6300/06Y | 5200 | | | 2019 |
| 25 | | Zinvert-A9H7000/10Y | 5000 | | | 2019 |
| 26 | 3# | Zinvert-A8H5600/10Y | 4300 | | | 2020 |
| 27 | | Zinvert-R8H5000/10Y | 3400 | | | 2022 |
| 28 | | Zinvert-A8H3150/10Y | 2500 | | | 2020 |
| 29 | | Zinvert-A8H1250/10B | 800 | | | 2016 |
| 30 | | Zinvert-A8H450/10B | 355 | | | 2017 |
| 20000 | | | | | | |

3.2.1

Special load

| NO. | Project Name | Device Model | Motor power | (/) Classification of inverter application loads (Other fan/pump loads) | Industry | Year |
|-----|--------------|---------------------|-------------|--|----------|------|
| 1 | | Zinvert-A8H1800/10B | 1400 | | | 2015 |
| 2 | | Zinvert-A8H4500/10Y | 6300 | | | 2016 |
| 3 | | Zinvert-A8H1500/10B | 1250 | | | 2017 |
| 4 | | Zinvert-A8H2000/10Y | 1600 | | | 2018 |
| 5 | | TRQ-1250 | 1250 | | | 2018 |
| 6 | | Zinvert-A8H2500/10Y | 1600 | | | 2018 |
| 7 | | Zinvert-A8H6300/10Y | 5000 | | | 2018 |
| 8 | | Zinvert-A8H6300/10Y | 5000 | | | 2019 |
| 9 | | Zinvert-A6H500/10B | 320 | | | 2019 |
| 10 | | Zinvert-A5H900/06B | 710 | | | 2019 |
| 11 | | Zinvert-A6H560/06B | 400 | | | 2019 |
| 12 | | Zinvert-A9H5600/10Y | 4500 | | | 2020 |
| 13 | | Zinvert-S6H6300/06Y | 4850 | | | 2020 |
| 14 | | Zinvert-A9H4000/10Y | 2600 | | | 2020 |
| 15 | | Zinvert-A5H1150/06B | 710 | | | 2020 |
| 16 | 1# | Zinvert-A8H1800/10B | 3550 | | | 2020 |
| 17 | | Zinvert-R8H800/10B | 630 | | | 2021 |
| 18 | | Zinvert-A5H3500/06Y | 2500 | | | 2021 |
| 19 | | Zinvert-A9H1150/10B | 710 | | | 2022 |
| 20 | | Zinvert-A8H4500/10Y | 3550 | | | 2022 |
| 21 | | Zinvert-S9H4500/10Y | 2100 | | | 2023 |
| 22 | | Zinvert-A8H5000/10Y | 3550 | | | 2023 |

3.3

Typical Applications

LNG

Zinvert-R8H11000/10Y

LNG

LNG

LNG

LNG



Project Name: Inverter Project for the Natural Gas Storage and Peak Regulation of Jingbian by Yanchang Petroleum and the Supporting LNG Configuration

Product Specification: Zinvert-R8H11000/10Y

Project Highlights: The working conditions of natural gas storage and peak regulation as well as LNG production are complex and changeable, and this device endows the system with a powerful adjustment capability. In terms of natural gas storage and peak regulation, it can quickly adjust the operating parameters of the compressor according to the gas consumption peaks and valleys in different seasons and at different times of the day and night, so as to achieve precise gas storage and efficient gas supply. In the LNG production process, it can timely adjust the motor speed in response to the slight changes in process parameters such as the refrigeration temperature and pressure, ensuring that LNG production is always in the best state and flexibly meeting the diverse demands of the market for natural gas and LNG products.

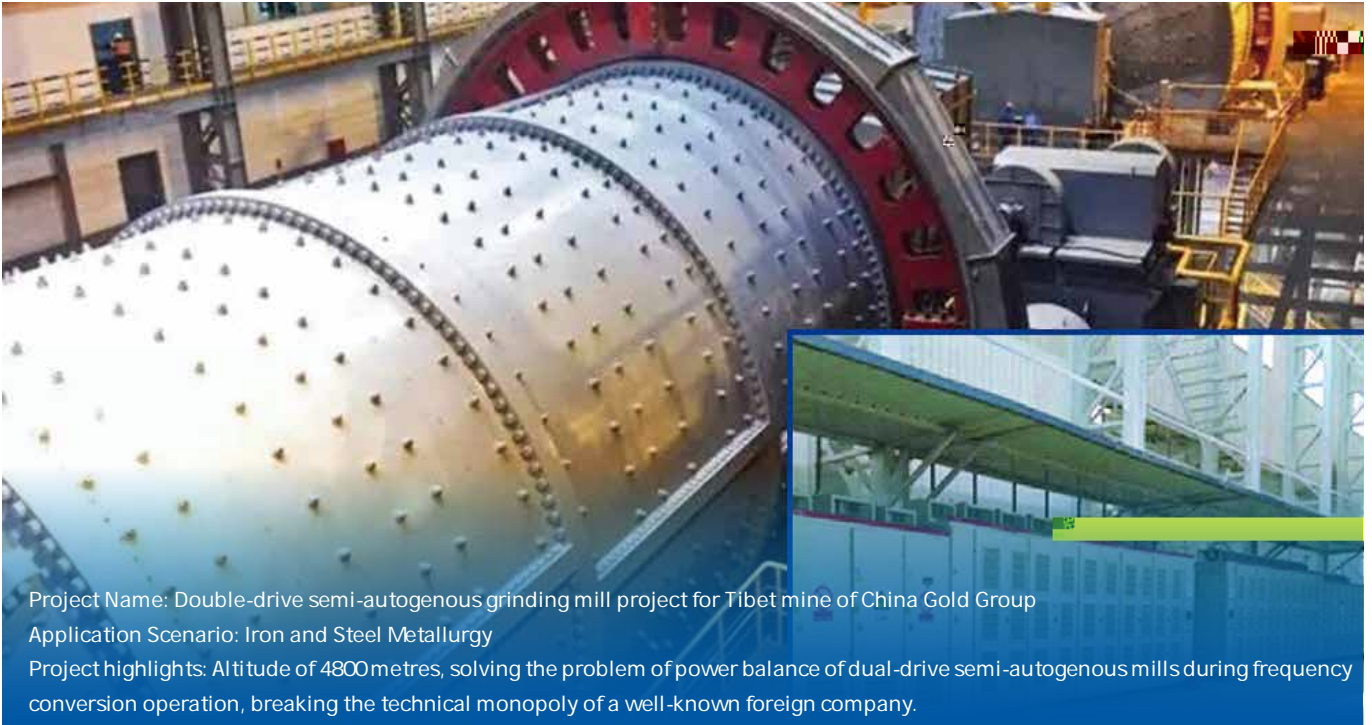
600MW

Project name: Datang Group 600MW unit combined induced draft fan frequency conversion transformation project

Application scenario: thermal power generation induced draft fan

Project highlights: After the transformation, the frequency conversion equipment operates stably, has good regulation characteristics, and the energy-saving effect is obvious.

4800



600MW

1%

6500h

75%

25%

2000





Project Name: Nation's First! Successful Operation of Zhiguang's "One-to-Nine" High-Voltage Frequency Conversion Project
Application Scenario: Thermal Power Plant Fans
Project Highlights: The successful operation of this project has overcome numerous technical challenges faced by high-voltage frequency converters in a one-to-many configuration, such as motor matching, protection, wiring layout, and length. It not only optimizes the operational efficiency of the fans but also reduces energy consumption and maintenance costs, enhancing the system's stability and safety.



20000kVA

150

250



Project name: Guangxi large-scale paper-making enterprise synchronous motor special converter drive pulp mill project
Application Scenario: Pulp Mill for Paper Making Industry
Project highlights: 20000kVA motor, using Zhiguang high-voltage inverter one-two start-up solution, can achieve an annual output of 1.5 million tons of raw pulp and 2.5 million tons of paper.

2x 460MW "

18

42 kWh

548.6 GJ



Project Name: Guangzhou Development Zone 2x 460MW Gas-to-Coal Cogeneration Project

Application Scenario: Thermal power generation

Project Overview: This project adopts 18 sets of inverter by Zhiguang, with an annual power generation of 4.2 billion kWh after commissioning and an estimated annual heat supply of 5.486 million GJ, providing a stable heat source for many enterprises in Guangzhou Science City and the eastern and western districts of the Economic and Technological Development Zone, as well as Dongguan Mayong and other places.

3#1780m3

600



Project name: DXN Iron and Steel Blast Furnace Project Frequency Conversion Modification Project

Application Scenario: Metallurgy

Project highlights After the completion of the project, the annual iron production of the Ironmaking Division will be increased to 6 million tonnes, and DXN Iron & Steel will become the No.1 iron and steel enterprise in Southeast Asia, and Zhiguang Electric high-voltage frequency converter will vigorously assist the construction of the DXN Iron & Steel 3#1780m3 Blast Furnace Project.



After-sales Service



Five-star after-sales service to ensure the stable operation of equipment in various scenarios around the world.



Professional Efficient Comprehensive

7大服务中心 Service Center

Zhiguang has established seven major regional service centres with Guangzhou, Beijing, Shanghai, Xi'an, Chongqing, Wuhan and Hangzhou as the core, and on the basis of which it has set up a service network covering all major customer service points and project departments across the country, which can provide faster, more convenient and comprehensive and considerate high-quality services for customers and partners.

2服务范围 Service Scope

Standardised Warranty: pre-commissioning, installation and commissioning, preventive maintenance, spare parts supply, on-site service, optimisation service, intelligent O&M
Customised services: customised programme design, multiple cooperation models, training services.

2/48服务承诺 Service Commitment

2 48

Respond within 2 hours after receiving the service demand, and personnel arrive at the site within 48 hours.

1 Service Platform

"Comprehensive Energy Service Industrial Internet Platform" empowers the core aspects of comprehensive energy service products, such as technology research and development, product manufacturing, system integration, equipment operation and maintenance, energy efficiency improvement, energy trading, etc., with big data, and helps customers realise the transformation and upgrade from factor-driven to data-driven.



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