

***FOCUSING ON MOTOR DRIVES FOR 20 YEARS***



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Provide Innovative, clean and energy-efficient solutions for a better tomorrow.

# Company Profile

# Table of Contents



Overview



Manufacturing  
Quality Management



Test Equipment

Product  
Introduction

**FOCUSING ON MOTOR DRIVES FOR 20 YEARS**



R&D  
Centre



Service  
Support





## Company introduction

**KEWO ELECTRIC TECHNOLOGY CO., LTD.** ( hereinafter called KEWO ) is a professional manufacturer of kinds of AC drives, variable frequency inverter, soft start, and solar pump inverter, etc. We are not only focus on designing, manufacturing, sales and after sales service for above mentioned products, but also providing custom made automation solution and renewable energy technologies.

We become top 10 manufacturer of frequency inverter since established 2005.

There are more than 150 staffs working in our factor, 60% of them are engineers.

Thanks to our great R&D team hardworking and innovation, we mastered core and leading vector control technology for PMSM and IM. We also introduce and absorber latest servo motor control and motor control technology from aboard, that help us keep top position among Chinese manufactures.

We have established 2 modernization production lines, digital quality control system, code bar tracking system and EPR management system, etc. And every piece of KEWO products have been tested with full load to ensure 100% good quality. Quality begins and ends with each person in our company.

KEWO products is comprised of high level AC drives, variable speed drive, frequency inverter, solar pump inverter with DC and AC input, etc. These products are widely using in industrial automation, cement, textile, metallurgy, HVAC, oil & gas, water treatment, chemical , machine tools, hoisting, agriculture, farming, irrigation...





- ◇ Founded in 2010
- ◇ Top low voltage inverter provider in China;
- ◇ More than 30 technical invention patent;
- ◇ More than 20 branch offices and service centres;
- ◇ 20 technical supporters and after sales staffs;
- ◇ Products are exported to more than 30 countries in Asia and Europe;
- ◇ In the next decade, KEWO will strive to become the leading provider of industrial automation products and system solutions.



2010



2015

**V/F control**

(KVF600/KVF660)

**>>Vector control**

AD100/AD350/AD800/AD800S

**>> servo Drive**

AS850Z/T

**>>solar pump drive**

sungreat SG300/320

- ◇ KVF600/660 V/f general purpose drive
- ◇ leading technology ---Vector control AD series AC drive
- ◇ First technology of China—servo drive for spindle control
- ◇ Advanced solar pump drive with MPPT
- ◇ Construction area covers about 15, 000 m<sup>2</sup> of new factory 2015

# Honor

- ◇ Chinese National High-Tech Enterprise
- ◇ Shenzhen Double Soft Enterprise
- ◇ Shenzhen Top 500 Growing Industrial Enterprise
- ◇ Chinese Top 10 National Brand in Electrical Industry
- ◇ China Top 10 Satisfied Brand in Electrical Industry
- ◇ Member of Shenzhen High-Tech Industry

## 企业法人营业执照

(副 本) 副本1  
注册号 440306103293160

名 称 深圳市科沃电气技术有限公司  
住 所 深圳市宝安区西乡街道康乐社区新城大道安乐工业区A2栋厂房六楼A之一  
法定代表人姓名 杨伟  
注 册 资 本 500万元  
实 收 资 本 500万元  
公 司 类 型 有限责任公司  
经 营 范 围 变频器、电气传动设备、工业自动化产品的技术开发、生产与销售；国内贸易、货物及技术进出口（法律、行政法规、国务院决定禁止和限制项目除外）。

通 知

- 1.《企业法人营业执照》是企业法人领取后必须依法使用的证照。
- 2.《企业法人营业执照》分正本和副本，正本和副本具有同等法律效力。
- 3.《企业法人营业执照》正本或者副本只能印制一份，且只能使用一次。
- 4.《企业法人营业执照》不得伪造、涂改、出借、转让。
- 5.营业执照遗失、毁损的，应当向登记机关办理挂失、换领《企业法人营业执照》手续。
- 6.每年二月一日起至六月三十日，应当参加年检。
- 7.《企业法人营业执照》有效期满需要换领的，应当在期满前申请办理换领手续。
- 8.《企业法人营业执照》遗失或者毁损的，应当在公告作废旧证照之日起30日内声明作废，并向登记机关申请补领。

年度检验情况

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|



成 立 日 期 二〇一一年三月十一日  
营 业 期 限 自二〇一一年三月十一日至二〇一一年三月三十一日

2011年度已年检



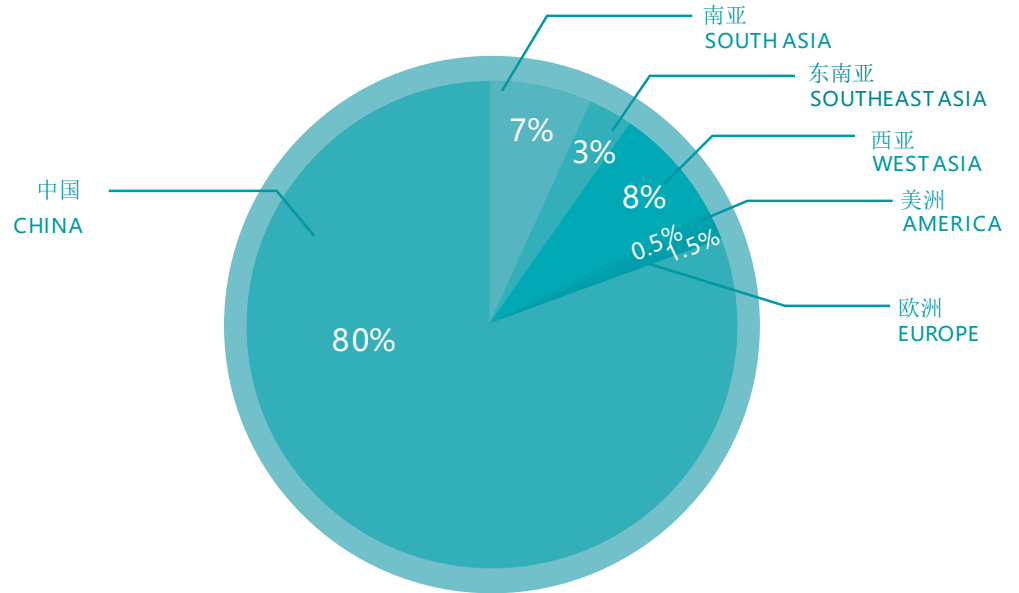
# Commercial Network

Worldwide sales network. We have built branch offices, suboffices and customer service system in the core areas in order to promote industry automation and control level.

Steady growth in sales revenue. In 2015, the sales revenue of KEWO is 20,000,000USD.

Now we will adopt more flexible, better support to partner in overseas market.

1. Good quality with better price.
2. Quick and strong after sales service.
3. Onsite servicing inducing technical communication,  
Repair training, application consulting...
4. OEM and custom made solution are available



# Product Introduction

KEWO products cover variable frequency inverter, servo drive system, solar pump inverter, automation equipment and so on. Its products are widely used in many fields such as petroleum, chemical, ceramics, lifting, machine tools, metal products, wire and cable, plastic, printing and packaging, textile and chemical fiber, metallurgy, coal, municipal and more.



AC Drive, VFD



Servo Drive



Soft starter



# Frequency Inverter

## AD350 Elite Frequency Inverter

- V/F, Sensorless Vector Control, Torque Control
- 150% starting torque under 0.5Hz
- Torque auto limit
- Independent cool channel with good ventilating
- Built in RS485
- Two motor groups
- Module design
- Speed tracking
- Special painting



# AC Drives

AD800 series high performance vector control drive for speed and torque controlling of motor.

Dual mode design G/P with strong overload capability

Suitable for PMSM & IM

V/F, sensorless vector control, sensor close loop vector control with PG, torque control.

**Sophisticated:** High class components selecting, adopting the mature and powerful vector control software platform to meet 100% general purpose And 80% special using market.

**Smart & heavy duty:** 180% starting torque, quick response even with 100% impact load, suits for heavy duty and big inertia load requirement.







**Up to 50% energy saving**

## **AS850-Z Servo Drive For Injection Molding Machine Energy Saving**

- For Permanent Magnet Servo Motor (PMSM) or Induction Motor (IM)
- High efficiency, low noise, high precision and strong overload capability
- Starting torque: 180% rated under 0Hz,
- Steady speed control accuracy  $\pm 0.02\%$ ;
- Torque control accuracy:  $\pm 2\%$







- Power torque and control, 0-200% rated torque
- Precision of position control  $\pm 1$ pulse; Accuracy speed control  $\pm 1\%$ .

## **AC Servo Drive for PMSM**

*AS850T is a new tailor made spindle controlling frequency inverter for CNC, machining center, packing, textile, etc.  
High accuracy speed, torque and position control through close loop vector control with encoder, which based on brand new hardware and software platform.*

**Low carbon economy, Pumping from solar arrays without battery, High efficiency with MPPT, Remote control with GPRS**



**Built in MPPT, Driving for PMSM or IM of Pumps**







## **Soft starter**

**Soft Start, High Reliability, Fully Motor Protection, Easy Maintenance**  
**And over 2000 units have been using on site until 2015.**





*EM-GJ motor soft starter is a new type motor starting and protection device that is integrated with power electronic technology, microprocessor and automatic control.*







# Kewo hot selling products list

| Products   | Input voltage and power  | Pictures  | Brief introduction  |
|--|--|---|---|
| AD800 Series High Performance Vector Control Drive     | 1Ph, 220V, 0.4kw to 2.2kw.<br>3Ph, 220V, 0.75kw to 75kw<br>3Ph, 380V/660V/1140V,<br>0.75 to 630kw. |   | Drive for PMSM and IM<br>Accuracy speed and torque control for motor,<br>multiple functions<br>Sensorless vector control, sensor vector control with<br>PG, VF control,<br>180% rated starting torque,<br>big allowance IGBT module , |
| AD100 Mini Economic Type AC Drive                      | 1Phase, 220V, 0.4 to 1.5kw   |   | Adopt software platform as same as AD800, rich<br>functions<br>Mini and Economic type,<br>IPM iGBT  |
| AD350 Mini Vector Control Drive                        | 1 Ph 220V,0.4 to 2.2kw,<br>3 Ph,380V, 0.75 to 3.7kw  |   | Mini drive with compact design<br>Vector control and VF using the same software<br>platform as AD800<br>IGBT module to ensure good quality  |
| Ad800S<br>Frequency Inverter For<br>PMSM (servo drive) | 1Ph, 220V, 0.4kw to 2.2kw.<br>3Ph, 220V, 0.75kw to 75kw<br>3Ph, 380V/660V/1140V,<br>0.75 to 630kw. |  | Enhanced AD800 version, special for PMSM servo<br>motor with sensorless or sensor control, Multiple<br>protection function<br>Rich functions, and flexible using<br>PG card built in controller board                                 |



| Products                                      | Input voltage and power  | Pictures   | Brief introduction  |
|---|--|--|---|
| SD800 Seal Frequency Inverter (IP54)          | 220V (single-phase power) 0.4-2.2kW<br>380V (three-phase power) 0.75-30kW  |   | sealed frequency inverter is enhanced version of AD800 series frequency inverter, built in with IP54 protection grade. With excellent in anti-dust, water proof, anti-grease and anti-corrosion properties  |
| AS850 Z Servo Drive For PMSM Of IMM.          | 3 phase, 380V±15%, 2.2kw to 55kw   |   | Driving f or permanent magnet synchronous motor (PMSM) for energy saving. High energy saving, high power factor, quick response and high accuracy control, etc.   |
| AS850T Spindle Servo Drive For PMSM And IM    | 3 phase, 380V±15%, 2.2kw to 55kw   |   | Spindle servo drive for CNC, machining center, packing, textile, etc. high accuracy speed, torque and position control through close loop servo control   |
| SG300 Solar Pump Drive Or solar pump inverter | <ol style="list-style-type: none"> <li>1. 1 S (80V to 350VDC or 110VAC input, 3PH 110 to 220VAC output)</li> <li>2. 2S ( 150V to 350VDC or 220VAC input, 3PH 220 to 240VAC output)</li> <li>3. 4T ( 250V to 800VDC or 380VAC input, 3PH 380 to 460VAC output)</li> </ol> |  | Fully automatic system using variable speed drive compatible with AC, 3-phase, submersible and surface mount pumps, and high efficiency PMSM Pumps. 2 CPU design<br>With MPPT, sensorless flow and generated flow measure, water tank detect and stop function, |



|   |  |  |  |
|---|--|--|--|
| <p>S300/320 Vector Control Frequency Inverter (Motor AC Drives)</p> | <p>1 Ph 220V input, 0.75kw to 7.5kw<br/>3 PH 380v, 0.75kw to 37kw</p>                      |   | <p>A dual mode design with optimized V/f control and open loop vector control ( OLV) without PG card to achieve sophisticated motor control, compatible with IM and PMSM.</p>  |
| <p>EM-GJ3 Soft start (need match by pass contactor to work)</p>     | <p>1PH 220V+15% , 11kw to 90kw<br/>3 Ph AC380V, 480V, 660V, 1140V±30%, 0.75kw to 630kw</p> |   | <p>EM-GJ3 motor soft starter is a traditional type motor starting and protection device that is integrated with power electronic technology, microprocessor and automatic control. It need match with by pass contactors working.</p>                                    |
| <p>EM-GW Online Soft Starter( no need by pass contactor)</p>        | <p>220V+15% , 11kw to 90kw<br/>3 phase AC380V, 480V, 660V, 1140V±30%, 0.75kw to 630kw</p>  |   | <p>EM-GW online soft starter, Intelligent motor soft starter, the use of intelligent digital control, new generation technology applying, built in the by pass inside. Perfect motor protections, and multiple motor start mode. Compact design with minimum wiring.</p> |
| <p>GS3I online soft starter control panel</p>                       | <p>220V+15% , 11kw to 90kw<br/>3 phase AC380V, 480V, 660V, 1140V±30%, 0.75kw to 630kw</p>  |  | <p>EM-GS3I online soft starter panel, with new design and difference from traditional soft starter cabinet with install complete soft starter inside, multiple function with easy wiring and perfect motor protection function.</p>                                      |

Accessories list:

1. PG card, keypad, keypad cable, electrical components of inverter...

**2.AC chock, DC cock, braking unit, braking resistor**

3. Solar pump drive system parts such as solar arrays, AC pumps, solar cells parts...

## Application sites showing of KEWO Drives

KEWO products is comprised of high level AC drives, solar pump system and soft starter, etc, which are widely using in industrial automation, cement, textile, metallurgy, HVAC, oil & gas, water treatment, chemical, machine tools, hoisting...



# R&D

Holding the spirit of “Innovation is the lifeblood of an enterprise”, KEWO established profound technical cooperation with renowned universities and research institutions. KEWO will provide customers with more stable, efficient and energy-saving innovative products.



- ◇ High quality R&D team members with 20 years of electrical control industry experience;
- ◇ Strong R&D team with more than 20 sophisticated members;
- ◇ Owns more than 30 technical patents;
- ◇ Devote 10% of sales to research and development.

# Manufacturing

◇ Established spraying lines, assembly lines, testing lines, packing lines, high temperature and room temperature aging chambers and advanced production testing equipments.

◇ Adopt ERP, digital manage system, tracking bar code system to improve the efficiency.

◇ Stable and skillful worker, 2/3 workers have worked KEWO more than 3 years.

◇ 200 units drives that power from 0.75 to 45kw day producing is available.



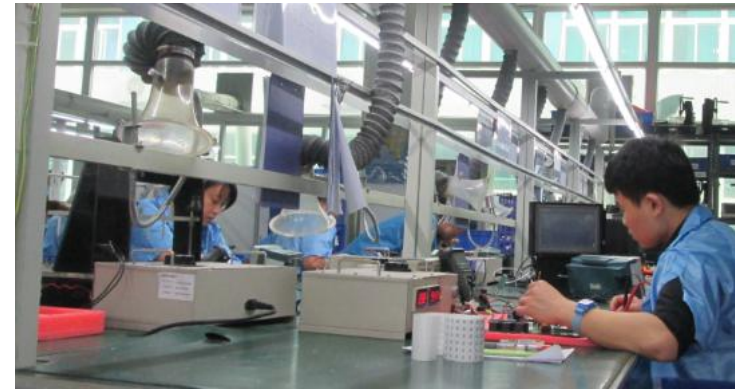


# Quality Control

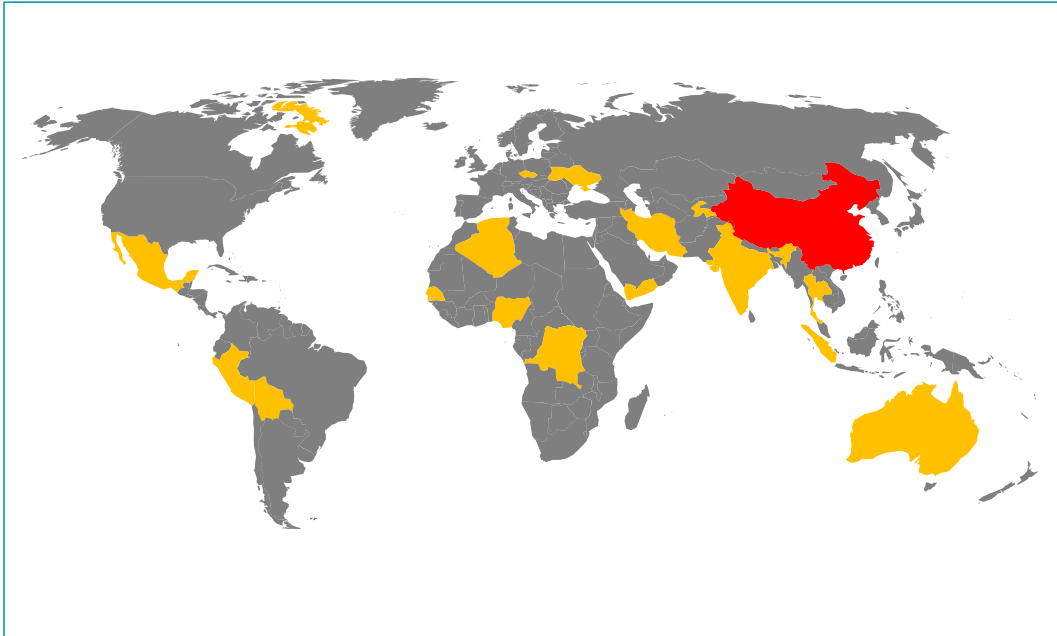
**Quality first:** procurement, design, manufacturing and other sectors are in strict accordance with the ISO9001 quality management system requirements.

Quality begin to ends with each Person at Kewo. We have established advanced inverters testing system with digital EPR control, auto testing facilities.

Every inverters have been tested with full load of motor to ensure good quality.



# Service and Support



40

More than 20 branch offices;  
Dozens of partners in Asia,  
Europe, and Africa.

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24

Provide technical support and  
service within 24 hours.

24 months guarantee

---

8

Rapid response;

Provide specific solutions  
within 8 hours.

---

2

Two English speaking  
engineers to provide  
support.

National Brand Revitalizing

Infinite Technology Innovating

Thank you

KEWO ELECTRIC TECHNOLOGY CO., LTD.

ADD: 3 FLOOR, BLOCK 8, ST GEORGE INDUSTRIAL PARK, XINYU, ROAD,  
SHAJING, BAO'AN, SHENZHEN, GUANGDONG, CHINA.

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