



Power The Green Energy Future

GUANGDONG AOKLY GROUP CO.,LTD

# AOKLY GROUP

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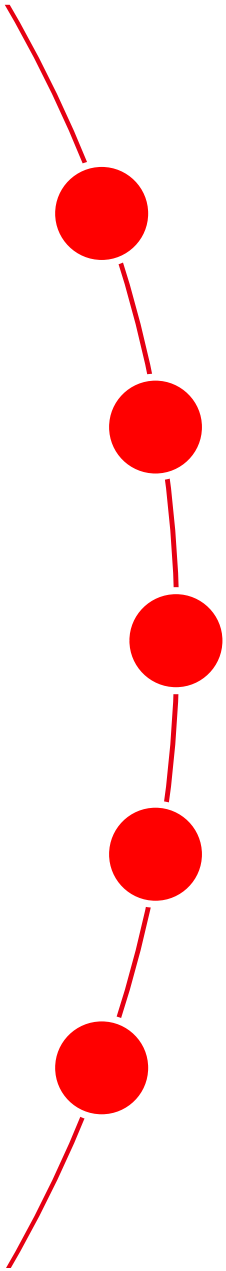
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# 01

## About Us

## About us

**Established in 1996**, Guangdong Aokly Group Co., Ltd is currently one of **the largest enterprises of storage battery for research and development, production and sales in China.**

The headquarter of our company is in Yingde city, Guangdong Province. There are 4 production bases in Aokly Group, which covers an area of 500 acres, and annual production capacity of **13 million Kva.**

Aokly mainly produces : **VRLA Battery、Car Battery、Forklift Battery、Lithium Battery.**We imported advanced production equipment and testing instruments from Italy, Canada, and Germany's, and have a number of high-energy sealed batteries automated production lines.

Our products are well known in field of storage battery as **stable quality and performance** especially good starting performance at low temperature which are highly popular with customers living in North-China and some overseas areas.

The products are widely used in **Automobile ,Electric Vehicle,Tourist car,Marine Equipment,Aviation,Military,Railway,UPS, Electric Power System,Solar Power System,Wind Power System,etc.** They have a good reputation in domestic and foreign markets.**More than 50% sale is for overseas market.**

**Aokly has been always taking a objective that seek better on quality, chase development on sincerity to create reliable brand in field of storage battery with good quality and service.**



# Milestones

**1996**  
Guangdong  
Zeliang Storage  
Battery Co., Ltd.

**2000**  
ISO9001 quality  
management system  
certification

**2001**  
"Top 10 Products"  
by China Storage  
Battery Inspection  
Center

**2009**  
Guangzhou  
Aokly Power  
International  
Trade Co., LTD

**2010**  
Yingde Aokly  
Power Co.,LTD

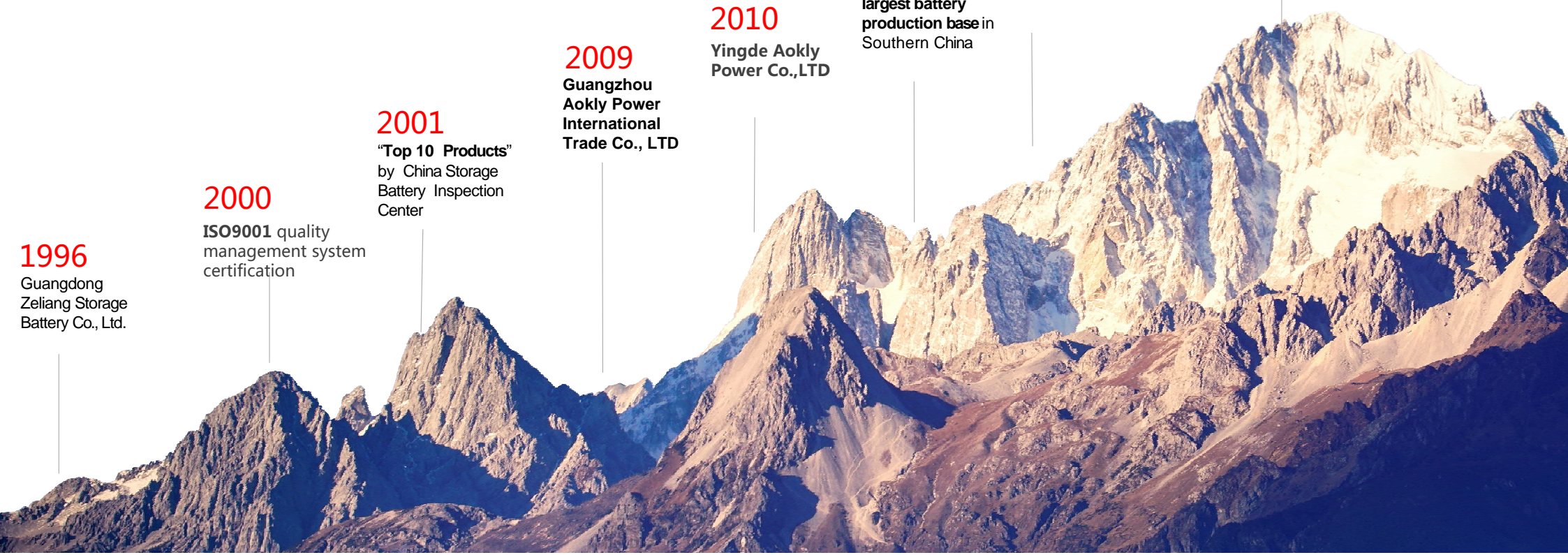
**2012**  
Known as the  
largest battery  
production base in  
Southern China

**2016**  
YingDe Mell  
Polymer  
Material Co.,LTD

**2021**

**Aokly Group Co.,LTD**

- Guangdong Aokly Group Co. LTD
- Guangzhou Aokly International Trade Co., LTD
- Honshu Battery (Yingde) Co.,Ltd
- Mell Polymer Material Co.,Ltd



## Our Advantages



### Great Variety Of Product

The largest battery production base in South-China

Full range of products, Automotive Battery, VRLA battery, Forklift Battery, Lithium Battery , etc.



### Well-developed Marketing System

In-depth research in the energy field for more than 20 years

Perfect online and offline marketing system



### Excellent Technical Team Support

Focus on the development of new products

Scientific research team which provides excellent technical support



### Mature After-sales Service System

After-service inspection system to solve worries for our customers

# Enterprise culture

## Enterprise Spirit

Developing the Olympic spirit  
Powering The Green Energy Future



## Enterprise Mission

Providing New Technologies for our industry  
Providing New Service for our customers  
Seeking the path of happiness for our staff



## Enterprise Vision

Buliding Aokly Power into a benchmark in  
the field of energy storage and motive power





# 02

## ENTERPRISE SHOW

## ► Ecological Garden-Factory



Factory UAV Aerial Images

1. Factory scale: covers an area of 500 acres, One of the largest manufacturing bases of storage battery in the south china;
2. Four production bases: separator / forklift battery / auto battery / VRLA battery / Lithium battery;
3. Riched experiences:over 25 years' experience in Lead Acid battery industry.

## ► Ecological Garden-Factory



## ▶ Largest Production Base In South China



Manufacturing area UAV Aerial Images



Finished Goods Warehouse



Drying House



Manufacturing Shop



Production Line

## ▶ Advanced equipment



Expander Machinery From Canada



Assembly Equipment From Korea



Spectrometer



Tester



Robot Hand

## ► Quality System



### Research and Development Center

Aokly Professional R & D Team has constructed a perfect technical innovation system and excellent product independent research and development ability



### Quality Control

Provide accurate and reliable battery testing data for improving product performance and new product development to provide accurate data support.



### Raw material inspection

In order to ensure the quality of products, Aokly imported foreign top imported equipment, can quickly and accurately detect each batch of alloy lead electrolysis lead composition

## ► International Market

With reliable quality assurance and perfect after-sales service system, Aokly established stable and win-win cooperative relations with partners in different countries and regions around the world. **Products have been rooted in more than 150 countries around the world.**





# 03

## Aokly Honor

# Honor

For more than 20 years, Aokly Group has won the honorary title of Guangdong High-tech enterprise , Guangdong famous brand products and Golden Sun certification , China Ship Inspection, IS09001 , IATF16949 , IEC60095 and other international and domestic and industry certifications.



ISO9001



ISO14001



IATF16949



TLC Certification



IEC Certification



Golden Sun Certification



China Ship Inspection



High-Tech Enterprise



High-Integrity Enterprise



Guangdong Famous Brand



# Patented Technology

Aokly attaches great importance to technological innovation.



These patents provide a strong support for Aokly to expand our market, consolidate our company's brand awareness and enhance our company's core competitiveness.





# 04

## PRODUCTS



# STRUCTURE

1. **EXPANDED PLATES:** Adopting the **complete automatic** high performance expanded machinery which is currently **the most advanced** automatic technology **worldwide**. The unique Pb-Ca alloy formulation with low water losing has been adopted, enabled the **low self-discharge** and **long shelf life**. Furthermore, special solidification process greatly improves the uniformity of plates. Resolving the formation of high resistance PbSO<sub>2</sub> in plate gate interface. **Ensuring the battery is always in the strongest cranking performance.**

2. **SEPARATOR:** The **super- thin glass fiber** in separator ( or PE envelop) reduces the short circuit of plates group, reduce the electric resistance and **increase the current capacity**. The surface fiber can protect effectively the positive plate to shake and the powder off, so as to **extend the usage life**.

3. **POLES:** Mechanical operation ensure no-leakage. Special technical processing, which make sure the poles are **more durable** than traditional one.

4. **CENTRAL BUSBAR:** Adopting the most advanced COS machine to connect the plates, which is not easy to break and the busbar has high resistance to vibration, **low resistance** and **good electric conductivity**.

5. **MAGIC-EYE INDICATOR:** Easy to check charging state.

6. **DUST-PROOF FLAME ARRESTER:** Prevent explosion caused by overflow sulphuric acid and charging spark.

7. **COVER:** With special structure, the battery has the **excellent performance of nonleakage, ventilation and anti-explosion**, etc.

8. **HEAT SEAL TECHNOLOGY:** Heat sealed design to **maximize strength and rigidity** to prevent electrolyte leakage.





## CHARACTERISTIC, USAGE AND MAINTENANCE:

- For a new battery, it's **no need to charge**, or to add liquid, you can use it after fitting on the car. During the usage, liquid is never in need.
- When using, **keep the battery clean**, make sure **the connection contacts well**. Coated some Vaseline on connection between the pole and line and fasten the batteries well.
- Strong polypropylene container, advance lead calcium alloy and special diachylum method, anti-acid mist filter plate, anti-shake, prevent coldness, low discharge, less water losing, well cold starting capability.
- If need to offload the battery to charge, you can charge it with **constant current of less than 0.1C20A**, and keep the **voltage in 14.2~14.6V**.
- Keep batteries in a **dry place**, avoiding the sunshine. Batteries with **half year storage**, before use, you should charge them. Charging method: 0.1C20A. Eg: 60AH battery: charging with 6A for 6 hours.
- The battery is suitable for a car with **14.2-14.4V** charging voltage.



# Product Category

Aokly Power has always been dedicated to the research and development of **high-performance, long-life, wide temperature range, high security starting battery products**, including car batteries, AGM/EFB starts and stops battery and marine battery in three major categories and multiple types. Quality has won the trust and support of many countries and regions in the world.

- [Maintenance-free car batteries](#)
- [AGM/EFB start-stop batteries](#)
- [marine batteries](#)





## SEALED MF STARTING LEAD ACID BATTERIES

- 1.High Capacity.
- 2.Long life.
- 3.High CCA and good starting performance.
- 4.Good charging acceptance and vibration resistant performance.
- 5.Application of advanced PE type separator.
- 6.Application of TTP technology.
- 7.Advanced sulfate-resistant technology.
- 8.Advanced calcium lead alloy technology, maintenance-free design.
- 9.Reliable labyrinth-like seal design.



## AGM / EFB Start Stop Batteries



1. Completely maintenance-free, low self-discharge during storage, less water loss during use, no need to add water
2. Longer cycle life, the cycle life is more than 3 times that of car starting batteries
3. Strong starting performance, cold starting power is increased by 30% compared with rich liquid battery
4. Excellent charge receiving ability, strong charge receiving ability, quickly replenish the power consumption and absorb the energy generated by the brake in time
5. High safety, the battery can be tilted or inverted at any angle, even if the collision shell ruptures, no acid will flow out and corrode the vehicle

Application: For light-mixed vehicles equipped with START-STOP system or high-end models





## Marine Batteries

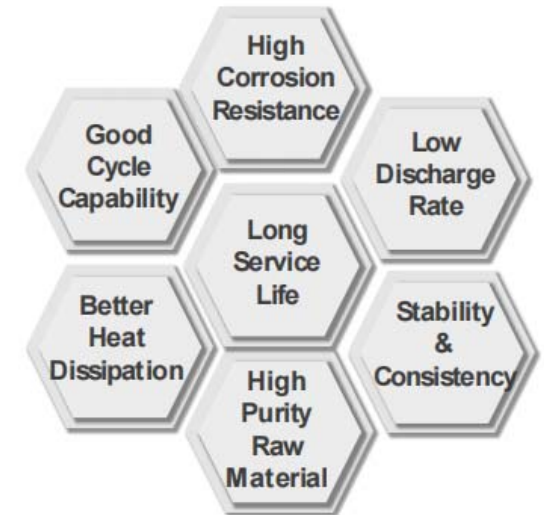
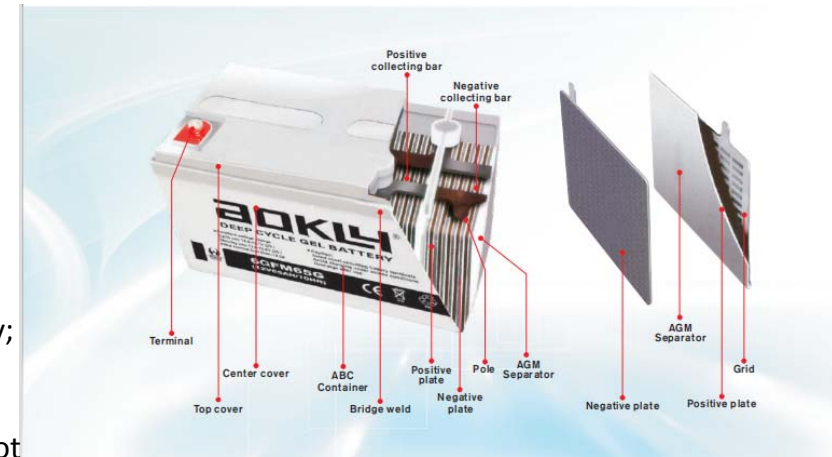
1. Dry-charge lead-acid battery
2. Excellent cold temperature resistance
3. Super cold cranking capacity





# VALVE REGULATED LEAD ACID BATTERY

1. Adopting low-calcium&high-tin alloy grid,high anti-corrosive performance,lower battery gas evolution;
2. With special lead paste formula,our batteries have good endurance cycle capability and charging acceptance and strong deep cycle good recovery performance ;
3. The fumed silica that is adopted as the key raw material of gel electrolyte is produced in Germany;
4. Batteries have long service life,good deep discharging cycle capability;
5. Gel batteries have better heat dissipation than AGM sealed batteries,reduced the possibility of not easy to have thermal runaway;
6. The self-discharge rate gel batteries is less than 1%/month;
7. The uniform part of gel battery electrolyte inside battery equally distributed has no layering phenomenon and the electrolyte is not readily not easy to dry up;
8. Battery production adopts high purity raw material,advanced manufacturing equipment to ensure battery performance stability and consistency;
9. Battery electrolyte contains silica solludox,so there is no dissociative acid or layering phenomenon inside,ensuring the good low temperature performance and service life of batteries;
10. The design life of standby use of batteries at 25° C is over 10 years.



## Products include:

- GFM 2V series
- GFM-G deep cycle series
- GFM-F front terminal series
- OPzV & OPzS series



**GFM-2V series**

- Long Life Design
- Wide Range Of Operating Temperatures
- Lower Self-Discharge Rate
- Tight Assembly With High Specific Energy



**GFM-G Deep Cycle**

- High Quality Gel Electrolyte
- Great Deep cycle performance  
Long Design Life
- Wide Range Of Operating Temperatures



**GFM-F front terminal Series**

- Designed For Telecom Use
- High rate discharge performance
- Narrow structure prevents heat escape
- The improved AGM separator improves the deep cycle life



**OPzV Series**

- Long floating charging life
- Multiple alloy tube plate
- High quality colloidal electrolyte
- Good low temperature performance

## Domestic enterprises Partnership

Aokly is involved in key industries and projects including

- **State Grid Power Supply**
- **Railway and Rail Transit**
- **Airports**
- **Power Plants**
- **Guangdong Radio and Television Network Co., LTD**



State Grid



Power Supply



Subway,  
Rail  
Transit



Airport



Power Plant



Guangdong  
Broadcasting  
and Television  
Network Co., Ltd

## Aokly Battery in 2022 Qatar World Cup

### Stadium Lighting Circuit



**FIFA WORLD CUP**  
**Qatar 2022**

## Aokly Battery in Hospital UPS System



## Aokly Battery In Civilian Power Supply System



## Other Project



Cooperated with **Malaysia**  
KTM on intercity train services system



Cooperated with **Vietnam**  
Telecom on UPS system



Cooperated with **Côte d'Ivoire** farm on solar system



Cooperated with **Mexico**  
Telecom on UPS system



# LiFePO4 Battery

# Product Series

- 1. LEAD-ACID ALTERNATIVE
- 2. ENERGY STORAGE SYSTEM  
TELECOM STATION BATTERY
- 3. HOME ENERGY STORAGE  
SYSTEM

## Advantages

- Long life span
- Lower weight and small footprint
- Ultra safe
- Low self discharge
- Wide working temperature



- High charge & discharge current
- Three to Five years warranty
- Customization available
- Higher Energy Density and Power Density



## 1. LEAD-ACID ALTERNATIVE

The combined voltage of LFP batteries is exactly the same as that of lead acid batteries.

Besides, LFP batteries have higher energy density and lighter weight under the same capacity. It is the perfect replacement to lead-acid batteries.

AOKLY LiFePO4 BATTERY		
ALFP-12150	12.8V150AH	483*180*240
ALFP-12200	12.8V200AH	522*240*218
ALFP-48150	48V150AH	400*630*180
ALFP-48200	48V200AH	570*620*180



## 2. Home Energy Storage System

- ◆ Maximum combine 16pcs powerbox, the expand capacity could reach to 160Kwh
- ◆ Communication:RS485/CANBUS
- ◆ Solar energy input terminal
- ◆ On/Off grid available



### 3. ENERGY STORAGE SYSTEM TELECOM STATION BATTERY

- Modularity battery offers 3.2V to 1000V system
- MWH Expandable from kWh to MWh in size
- Intergrated battery management system
- Design for maximum reliability and maximum energy storage



# THANKS

Thanks for watching!



AOKLY GROUP

