

Power the green energy future



GUANGDONG AOKLY GROUP CO.,LTD.

📍 Production base:HuaQiao Industrial Zone,Yingde City,
GuangDong Province,China

📍 Overseas sales center:Room 110,Block B,Jianpeng
Road 402,Baiyun District,Guangzhou

☎ 400-833-9899 / 0763-2665599 (Yingde)
020-86860028 / 86861998 (Guangzhou)

✉ sales@aokly-battery.com

🌐 www.aokly-battery.com



LiFePO4 Battery Smart Solution

Telecom | Household Energy System | Traction | Portable ESS

GUANGDONG AOKLY GROUP CO.,LTD.

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About us

1996^{year}
Since

800^{acre}
Total Area

1300^{mio. KVA}
Annual Production

GuangDong Aokly Group Co., Ltd. was established in 1996, is set research and development, production, sales as the group of lead acid and lithium battery manufacturers which is the high-tech enterprises in Guangdong Province.

The headquarter of company is in Yingde city, Guangdong Province, the four existing production base is located in Qingyuan and Yingde, covers an area of 800 acres, annual production capacity of 13 million kVA, is one of the large lead-acid battery manufacturer in Guangdong Province.

The company main products : TBS battery Starting lead-acid battery, motive-power battery, storage battery, solar battery, gel battery, etc; has imported advanced production equipment and testing instruments from Italy, Canada, and Germany's, a number of high-energy sealed batteries automated production lines.

Aokly highly valued and strict control the product quality, the production process adopted international general standards . It have respectively passed the ISO9001, TS16949 , ISO14001 approval in the quality control system and environment system ,Meanwhile it be approved by ROHS and the complete IEC60095 testing etc.

The products are widely used in Telecom 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.

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



LEAD-ACID ALTERNATIVE

In 2019, lead-acid batteries covered over 65% of the battery market. However, compared with lithium battery, due to its higher maintenance cost, shorter battery life and much more pollution to the environment, they are being gradually replaced by lithium batteries, which are expected to reverse the market share of lead-acid batteries by 2025.

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.



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

Performance	Remark	AGM Battery	GEL Battery	AOKLY LiFePO4 Battery	Advantages
Voltage		12V(Cell 2V)	12V(Cell 2V)	12V (Cell 3.2V)	Higher Energy Density
Cycle life	@100%	320	500	2500 (to 80% residual capacity)	6-10x Longer Lifetime
Weight		29Kg	30.5Kg	8.8Kg	1/2 Weight
Capacity @25°C	0.2C Discharge	85 AH	90 AH	100 AH	Constant Energy and Power in Any Discharge Rate
	0.5C Discharge	60 AH	65 AH	100 AH	
	1.0C Discharge	55 AH	60 AH	100 AH	
Charge Time		6-12H	6-12H	1-3H	Fast charge
Maintenance Costs		Low	Lower	No Need to Maintenance	Without Maintenance Cost

Specification

Model No.	Voltage	Capacity	Energy	Dimension(mm)			Weight	Terminal
	V	AH	WH	L	W	H	Kg	Type
ALFP-1206	12.8	6	76.8	151	65	94	0.75	F2
ALFP-1212	12.8	12	153.6	151	98	101	1.5	F2
ALFP-1260	12.8	60	768	229	138	211	6.5	F2
ALFP-1275	12.8	75	960	260	165	212	11.6	F2
ALFP-12100	12.8	100	1280	329	172	219	12.9	M8
ALFP-12150	12.8	150	1920	483	170	240	17	M8
ALFP-12200	12.8	200	2560	522	240	218	22	M8
ALFP-12250	12.8	250	3200	522	270	218	35	M8
ALFP-2450	25.6	50	1280	329	172	219	12.9	M8
ALFP-24100	25.6	100	2560	525	240	225	20.5	M8

Dimension can be customized

ENERGY STORAGE SYSTEM TELECOM STATION BATTERY



Customized Services

Voltage, Capacity and Dimension can be customized accordingly

Modularity battery offers 3.2V to 1000V system

MWh Expandable from kWh to MWh in size

Integrated battery management system

Design for maximum reliability and maximum energy storage



Model No.	Voltage	Capacity	Dimension(mm)			Configuration
	V	AH	L	W	H	
ALFP-4850	48	50	442	400	132	15S1P
ALFP-48100	48	100	442	450	132	15S1P
	51.2	100	442	450	132	16S1P
ALFP-48150	48	150	442	535	178	15S1P
	51.2	150	442	535	178	16S1P
ALFP-48200	48	200	442	480	243	15S1P
	51.2	200	442	480	243	16S1P

Home Energy Storage System AOKLY Powerbox



LiFePO4 Advantage

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

Customized Services

Voltage, Capacity and Dimension can be customized accordingly

- Modularization system offers 3.2V to 1000V possibility
- Expandable from kWh to mWh in size
- Safety-oriented design plan for maximizing
- Support the mobile app control & monitor

Model No.	ALFP-48100G	ALFP-48120G	ALFP-48150G	ALFP-48200G
Electric energy	4.8KWh	5.76KWh	7.2KWh	9.6KWh
Model	48V100AH	48V120AH	48V150AH	48V200AH
Weight (Kg)	45KG	50KG	60KG	83KG
Dimension(L*W*H)	450*480*180mm	450*500*180mm	630*400(460)*180mm	630*400(460)*180mm
Case material	Iron/ Aluminium Alloy			
Warranty	3-5 years warranty			
Installation	Indoor/Outdoor, Wall mounting/Counter top mounting			
Operate temperature	-20°C-60°C			
Protection level	IP20	IP20	IP30	IP30
Expandable	Max.16pcs power box			

Forklift lithium battery

Providing Mass Lithium battery, is our upmost advantage leading us to be standing out from any of our competitor. This is our basic foundation to implement the differential strategy and also the core ability to create and maintain our competitive advantage.

Product Advantage

Non-Pollution, Non-Emission; Environmental new energy, leading the International trend.

High and Low temperature resistance-40 C ~60 C.

High efficiency(Quick charging 1~2 hrs).

Lower cost. (Can save about 50% compared with the traditional battery)

Super Long warranty reached 5 years.

Super long life reached 10 years.

Product category

Support for more customized packs

24V(60 -720AH) LiFePO4 battery

48V(180-720AH) LiFePO4 battery

72V(180-720AH) LiFePO4 battery

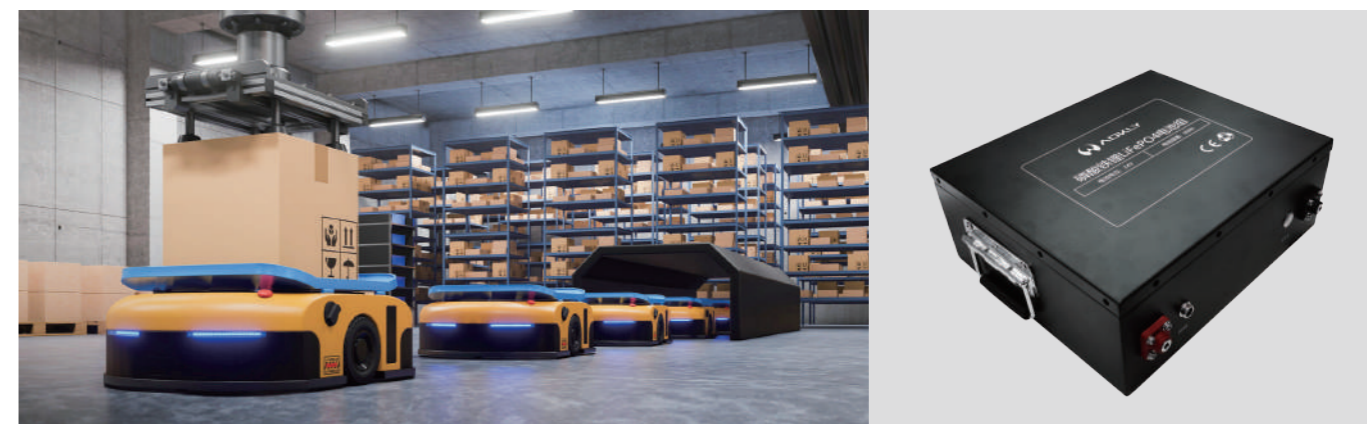
80V(144-630AH) LiFePO4 battery

Application

Electric two-wheelers, electric tricycles, electric four-wheelers, electric forklifts, AGV forklifts, golf carts, tourism vehicles, electric yachts, industrial and household energy storage power stations, etc.



AGV battery



Application

AGV Automatic Navigation Vehicle, Robot

Specification

Fast charging (Optional)

Model No.	Voltage	Capacity	Energy	Dimension(mm)			Weight
	V	AH	WH	L	W	H	Kg
AGV2426	25.6	26	665.6	179	162	87	4.3
AGV2428.8	25.6	28.80	737.3	300	121	163	24.9
AGV2439.6	25.6	39.6	1013.8	163	169	212	8.2
AGV2441.6	25.6	41.6	1064.9	180	152	160	8.5
AGV2460	25.6	60	1536.0	260	172	237	12.5
AGV3611	36	11	396	300	121	163	3.6
AGV4840	48	40	1920	183	303	175	15.0
AGV4841.6	48	41.6	1996.8	300	300	91	14.3
AGV4858.5	48	58.5	2808	300	175	250	19

Golf Car Battery



Lithium battery now is gradually replacing lead-acid battery for gold cart and golf trolley.

Aokly golf car battery has a longer service life, with almost no post-maintenance cost, the cost effective is much more higher. And in the same energy density, our battery has a smaller volume and lighter weight, with the much more stable performance, make it become the best choice for the golf car.

Advantages

- 10X longer cycle life than SLA batteries
- Lighter weight and smaller size
- 50% faster charging than SLA batteries
- Superior safety with built in anti-explosion value
- 5V USB interface for mobile devices(Optional)



Specification

Model No.	Voltage	Capacity	Energy	Dimension(mm)			Weight	Terminal
	V	AH	WH	L	W	H	Kg	Type
ALFP-3660	36	60	2160	350	250	240	24.5	Andson Connector
ALFP-36100	36	100	3600	520	300	200	38.5	Andson Connector
ALFP-4860	48	60	2880	380	260	230	31.5	Andson Connector
ALFP-48100	48	100	4800	500	300	200	50.5	Andson Connector
ALFP-72100	72	100	7200	900	400	300	75	Andson Connector

Portable Energy Storage

Introduction

Portable Energy Storage is designed to resist high and low temperature, and the lithium-iron battery with high temperature resistance ensures the normal operation of the battery system, which can adapt to the operation in -10 C ~55 C environment. The product is applied to mobile communication equipment, electricity for outdoor work, transmission equipment and other fields as an emergency backup power.



Advantages

- Easy to carry
- Long cycle life
- protection of overcharge, over discharge, over current, over temperature and short circuit

Features

- Lightweight
- Miniaturized
- Integrated
- Intelligent
- Portable
- Energy-saving
- Environmentally-friendly



Specification

Model	Capacity	Weight (Kg)	Dimension (mm)	Input	Output
LiFePO4-300	330WH	3.5	230*137*200	DC 20V 3.5A	AC 220V/300W
LiFePO4-500	550WH	6	301*193*242	DC 25.2V 3.5A	AC 220V/500W
LiFePO4-1000	1002WH	9.5	333*233*283	DC 24V 8.33A	AC 220V/1000W