



宜春市拓维锂能工贸有限公司

Yichun Topwell Power Co., Ltd

Enjoy Your Smart Life,
Never Power Off !



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01

About Us



About Us



COMPANY OVERVIEW

Yichun Topwell Power Co., Ltd is a leading battery manufacturer integrating R&D, production and sales of lithium cells, battery packs, home energy storage batteries and outdoor portable power stations. It has more than 1,000 employees, annual sales of more than US\$60M, strong technical force, and an internationally leading automatic production line for positive and negative electrodes. Products have been exported to more than 80 countries and regions such as Europe, America, Africa, Brazil, Mexico, Australia, Japan, and Vietnam. We have provided OEM/ODM service for many well-known international brands.



Corporate Culture



1

**Orien
tation**

To be the world top lithium battery manufacturer

2

**Missio
n**

To provide affordable and high-quality clean energy for all of humanity

3

Vision

To build a iconic enterprise in the new energy industry

4

Value

Struggle, Innovation, Integrity, Win-Win



Milestone



2002

Topwell Power was established, starting the production of lithium polymer batteries.

2012

To meet the diversified needs of customers, began to produce cylindrical lithium ion batteries.

2016

The EV and energy storage market is prospective, started to produce the LiFePO₄ battery.

2017

Foreign trade department was established, and registered our own brand "TWE".

2021

Achieved a production capacity of 1 Million pcs lithium batteries per day.



Our Advantages



1

High-quality Products

Uses advanced technology and strict quality control measures to produce lithium batteries that are reliable, safe, and durable. Our batteries are designed to meet or exceed industry standards and are tested to ensure their performance and longevity.

3

Customization

We work closely with our customers to understand their unique needs and provide customized solutions that are tailored to their specific requirements. Our team of experts can design and manufacture lithium batteries for a wide range of applications, including electric vehicles, energy storage systems, and portable electronic devices.

2

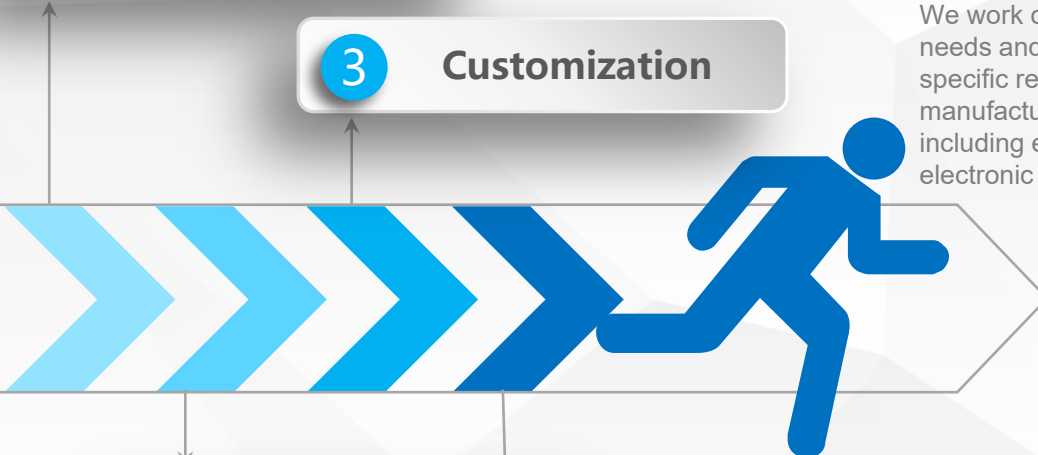
Competitive Pricing

We are committed to providing affordable and cost-effective lithium-ion batteries without compromising on quality. We use efficient manufacturing processes and source materials responsibly to keep our prices competitive in the market.

4

Exceptional Customer Service

We prioritize our customers' satisfaction and provide responsive and knowledgeable customer service to ensure their needs are met. Our team is dedicated to building long-term relationships with our clients based on trust and mutual respect, and we strive to exceed their expectations in terms of service and support.



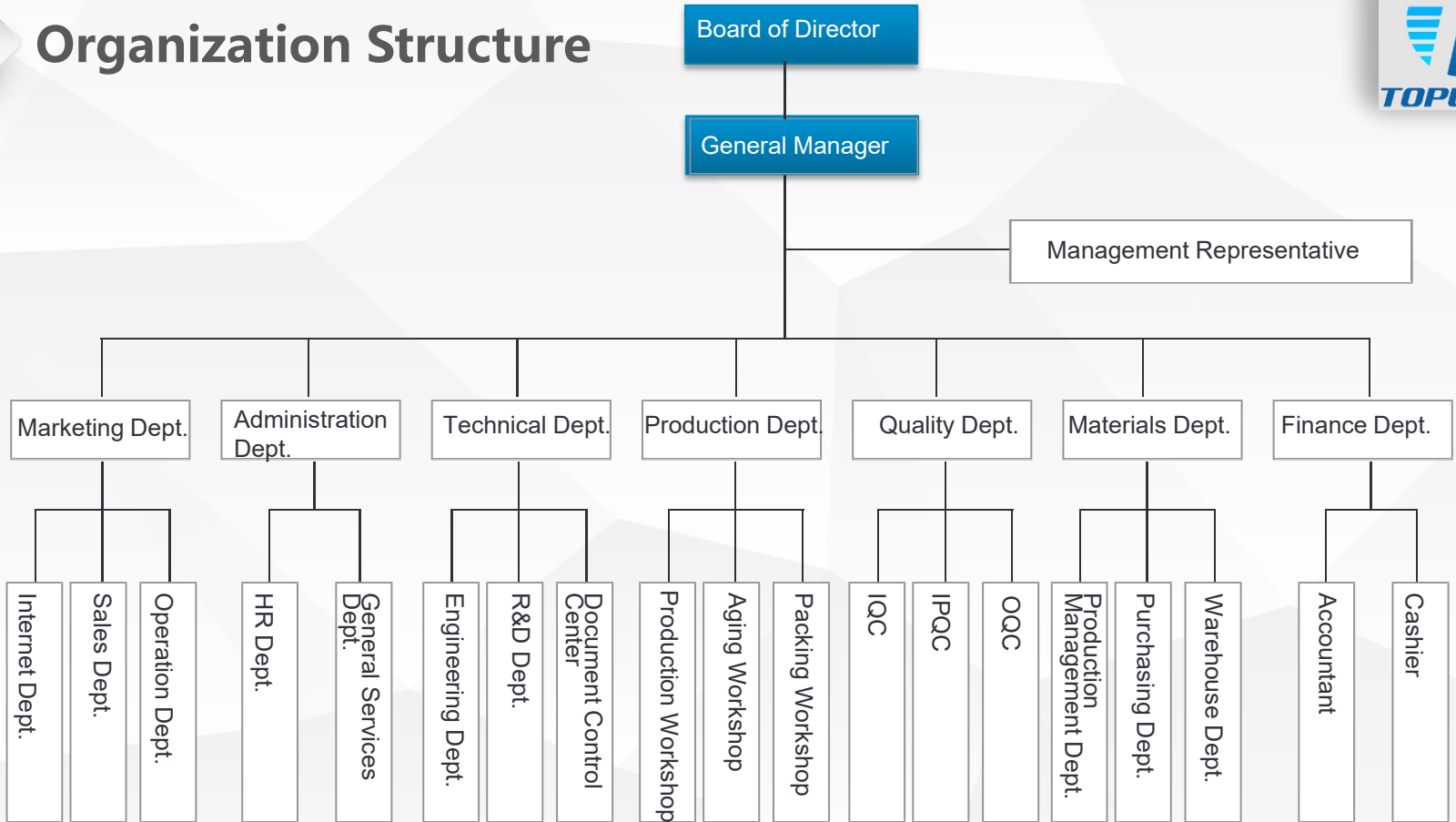


02

Company Team

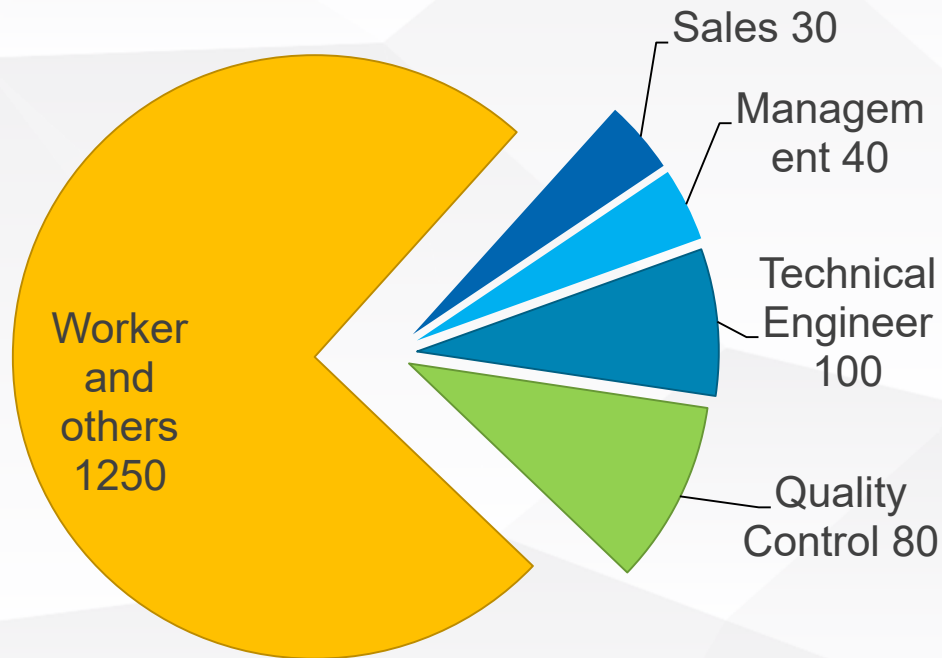


Organization Structure





Staff Composition



The R&D core team has an average experience of more than 10 years;
The team leader has more than 15 years of experience in lithium battery and pack design;
The main R&D personnel are from well-known companies in the industry.



03

Our Product

Lithium Polymer Battery/Li-ion
Battery/LiFePO4 Battery/Li-SOCl2
Battery



Lithium Polymer Battery



High Energy Density

Can store a larger amount of energy in a smaller space compared to other types of batteries. Ideal for use in portable electronic devices such as smartphones, tablets, wireless headset, bluetooth speaker, etc.



Lightweight and Thin

Easy to integrate into small devices and products. Also flexible in size and shape, with thickness from 2mm to 12mm, capacity from 20mAh to 25Ah.



Safe and Reliable

Equipped with Seiko PCB, with better protection performance than ordinary PCB. It has overcharge protection, over-discharge protection, over current protection, and short-circuit protection.



Lithium Polymer Battery - Hot Models



401425

Nominal Voltage: 3.7V
Nominal Capacity: 100mAh
Max Size: 4.2*14.5*27mm
Cycle Life: ≥800 times
Application: wireless headset, wearable device, IoT device, smart glass, etc.



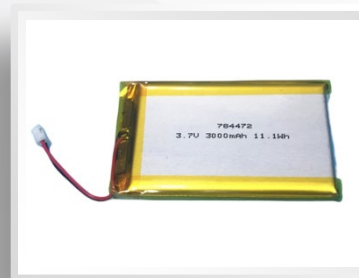
503040

Nominal Voltage: 3.7V
Nominal Capacity: 500mAh
Max Size: 5.2*30.5*42mm
Cycle Life: ≥800 times
Application: smart home, VR, sensor, light, IoT device, medical device, etc.



103035

Nominal Voltage: 3.7V
Nominal Capacity: 1000mAh
Max Size: 10.2*30.5*37mm
Cycle Life: ≥800 times
Application: GPS tracker, bluetooth speaker, IoT device, medical device, beauty device, etc.



784472

Nominal Voltage: 3.7V
Nominal Capacity: 3000mAh
Max Size: 8.0*44.5*72.5mm
Cycle Life: ≥800 times
Application: Amplifier, POS, GPS tracker, security device, handheld device, smart lock, smart home, etc.



Li-ion Battery



- High energy density
- Low self-discharge rate
- Long cycle life ≥ 800 times
- High safety
- Automatic cell matching: Good consistency in voltage ($\leq 3mV$), capacity ($\leq 20mAh$), resistance. ($\leq 5m\Omega$)
- Customized battery pack from 3.7V~37V
- Widely used for bluetooth speaker, flashlight, solar light, GPS, sweeper, security device, electric scooter, E-bike ...

Model (Cell)	Nominal Voltage	Nominal Capacity	Size ($\phi * H$)	Weight
14500	3.7V	800mAh	14*50mm	18.0g
18350	3.7V	900mAh	18*35mm	23.0g
18500	3.7V	1500mAh	18*50mm	33.0g
18650	3.7V	2000mAh	18*65mm	43.0g
18650	3.7V	2200mAh	18*65mm	44.0g
18650	3.7V	2600mAh	18*65mm	46.0g
18650	3.7V	3000mAh	18*65mm	48.0g
21700	3.7V	4500mAh	21*70mm	66.0g
21700	3.7V	5000mAh	21*70mm	71.0g
26650	3.7V	5000mAh	26*65mm	96.0g
32650	3.7V	6500mAh	32*65mm	132.0g



LiFePO4 Battery



Cylindrical LiFePO4 Cell

Features:

- Long cycle life ≥ 2000 times
- High safety, No fire, No explosion
- Fast charging
- Wide operating temperature: -20°C to 85°C
- Low self-discharge rate: 1%-3%/month
- Environmentally friendly
- Only 1/3 of weight & half physical size of the lead acid battery



Prismatic LiFePO4 Cell



LiFePO4 Battery Pack

Application:

- Electronics: medical device, emergency lighting, home appliances, GPS
- EV: electric scooter, electric bike, electric wheel, RV, golf cart, lifter
- Power tool, garden tool
- Energy storage: solar lighting, energy storage system, power bank, UPS



Energy Storage LiFePO4 Battery



Wall Mounted

- 5kWh/10kWh/15kWh
- Nominal Voltage: 51.2V
- Up to 15pcs in parallel
- ≥ 6000 cycles @0.5C 80% DOD
- RS485, RS232, CAN
- 5 years warranty



Rack Mounted

- 5kWh/10kWh/15kWh
- Nominal Voltage: 51.2V
- Up to 15pcs in parallel
- ≥ 6000 cycles @0.5C 80% DOD
- RS485, RS232, CAN
- 5 years warranty



Stackable

- 10kWh/15kWh/20kWh/25kWh/30kWh/40kWh/50kWh/60kWh
- Modular Nominal Voltage: 51.2V
- ≥ 6000 cycles @0.5C 80% DOD
- RS485, CAN
- 5 years warranty



All-in-one

- 5kWh/10kWh/15kWh
- Nominal Voltage: 51.2V
- ≥ 6000 cycles @0.5C 80% DOD
- RS485, CAN
- 5 years warranty



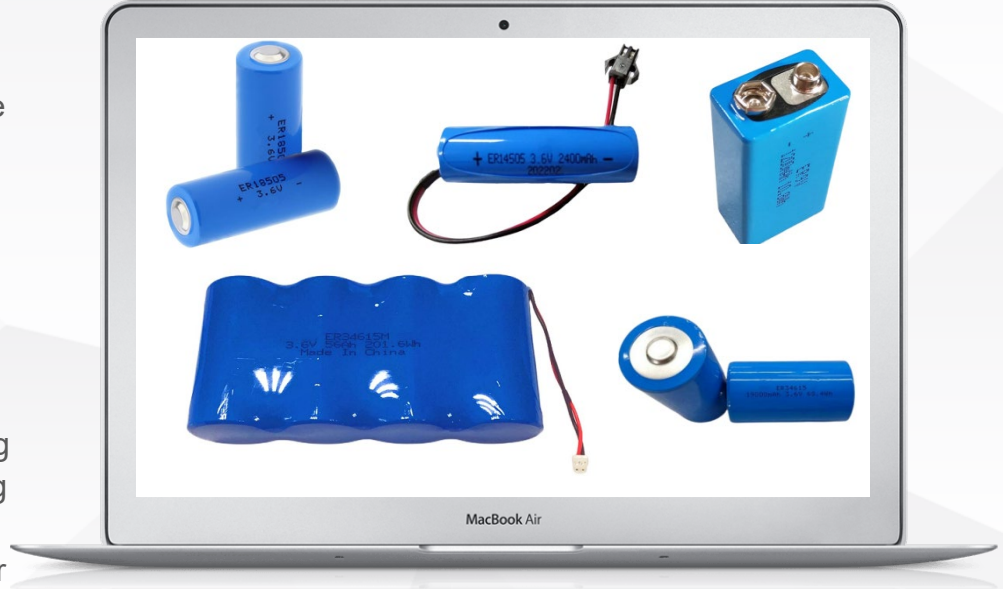
Li-SOCl₂ Battery



Lithium thionyl chloride (Li-SOCl₂) batteries are known for their high energy density, long storage life, and excellent performance in high temperature and low-current applications. They are commonly used in applications such as military and aerospace equipment, utility metering, and medical devices.

Key Features:

- Long storage life: up to 10 years
- Wide temperature range: -55°C to +85°C
- Low self-discharge rate: 1%/year at 25°C
- High and stable operating voltage: The open circuit voltage of single cell is 3.6V. The operating voltage is fluctuating from 3.3V to 3.6V according to the change of loading.
- High capacity: With high capacity and can deliver high current for short periods of time, suitable for applications that require high power output.



Bobbin type

Model	Size	Nominal Voltage(V)	Nominal Capacity(mAh)	Standard Discharge Current(mA)	Max.Discharge Current(mA)		Diameter(mm)	Height(mm)
					Continuous	Pulse		
ER10450	AAA	3.6	700	1	5	30	10.2	46.2
ER14250	1/2AA	3.6	1200	0.5	40	80	14.5	25.2
ER14505	AA	3.6	2400	2	100	200	14.5	50.5
ER17505	A	3.6	3400	2	100	200	17.5	50.5
ER18505	--	3.6	4000	2	120	200	18.8	50.5
ER26500	C	3.6	9000	2	230	400	26.5	50
ER34615	D	3.6	19000	2	230	500	34	61.5
ER9V	--	10.8	1200	1	35	100	16.9*26.0*48.8	

Spiral type

Model	Size	Nominal Voltage(V)	Nominal Capacity(mAh)	Standard Discharge Current(mA)	Max.Discharge Current(mA)		Diameter(mm)	Height(mm)
					Continuous	Pulse		
ER14250M	1/2AA	3.6	750	4	120	250	14.5	25
ER14505M	AA	3.6	1800	10	500	1000	14.5	50.5
ER18505M	-	3.6	3200	10	1000	2000	18.8	50.5
ER26500M	C	3.6	6500	10	1000	2000	26.2	50
ER34615M	D	3.6	14000	10	2000	3000	34	60.5



04

Quality Assurance & Certificate



Quality Management System



Fully Automated Production Control

6 Sigma Management

Batch Management

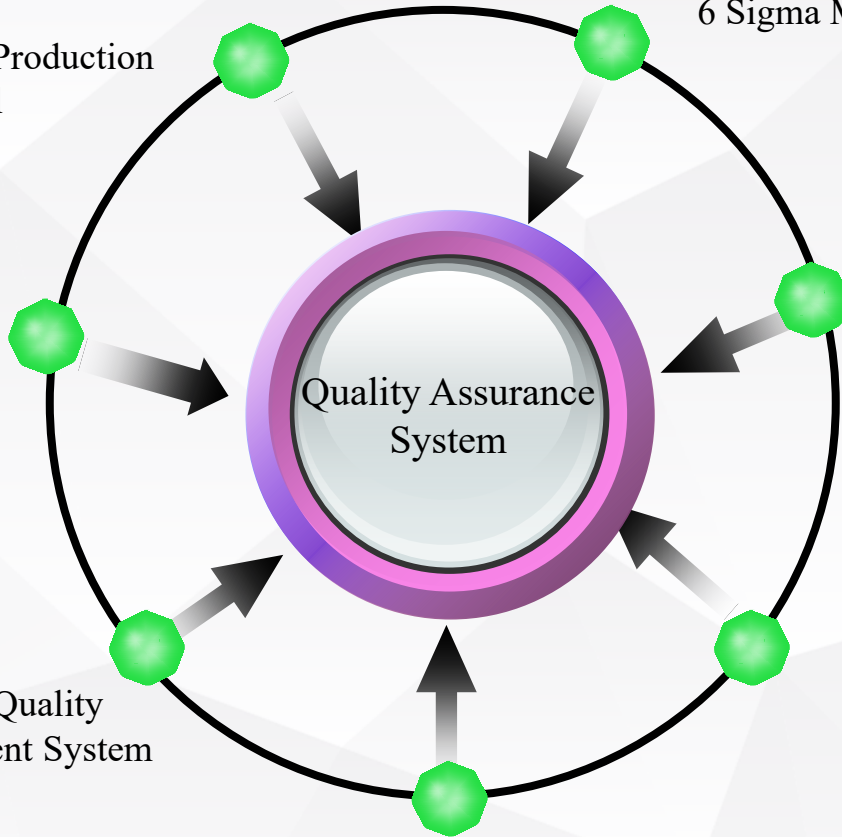
Standardized Operation

Quality Assurance System

4M Management

ISO 9001 Quality Management System

Discrepancy Control





Advanced Manufacturing Equipment



Dust-free, constant temperature and humidity production workshop



Fully automatic feeding system



Automatic winding machine



Topwell Power has built a 10,000-level dust-free constant temperature and humidity workshop, citing advanced automatic production equipment, and has the most advanced automatic lithium battery production line. It ensures the high precision, high consistency and high stability of the battery.



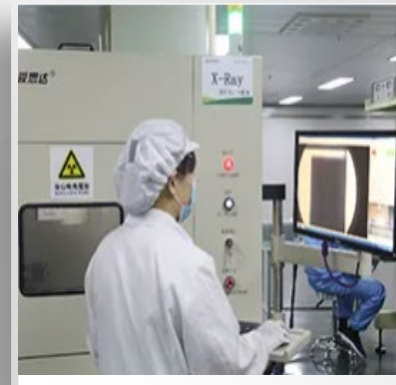
Advanced Testing Facilities



On-line Thickness Measure System



On-line Short-circuit Testing



X-Ray Scanner



AIO Welding Machine Short Circuit Self-Inspection



Charging Cabinet



Cycle Life Test Cabinet



Quality Control Process



IPQC Test

3 Inspections: Initial inspection, patrol inspection, self-inspection
3 Presses: Based on drawing, standard, technology
3 NOs: Not accept, Not manufacture, Not deliver defective products



IQC Test

Incoming Material Analysis Test:
Particle size test, salt spray test,
specific surface area test, etc.



OQC Test

100% testing of finished
products before packaging:
performance test, safety test,
reliability test, etc.

After-Sale Support

1~5 years warranty, Simulation,
Final analysis, 8D report,
Corrective Action





05

Our Partner



Our Partner





Future Challenge



**New
Opportunity**

New Market

New Project

New Mode

New Ieda



Contact Us



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