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Leading Li-ion Power Solution Provider for Off-Highway Applications



LiFePO₄ Batteries for Agricultural Equipment

Safe and Enduring Power for
Effective and Productive Farming



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ROYPOW

For One-stop New Energy Solutions

- R&D, manufacturing and sales of motive power systems and energy storage systems as one-stop solutions
- Fully automatic production lines, a full range of test equipment and an advanced MES
- Covering Low-Speed Vehicles' Batteries, Industrial Batteries, as well as Residential ESS, Commercial & Industrial ESS, and Mobile ESS
- Self-development of power electronics technologies, including PCS, BMS, and EMS



750+ Employees
190+ R&D People
105,000 m² Headquarters Floor Area
2,500 m² Testing Center
202 Patents

Quality Control Certificates:

- ✓ Environmental Management System: ISO 14001:2015
- ✓ Occupational Health and Safety Management System: ISO 45001:2018
- ✓ Quality Management System: ISO 9001:2015, IATF16949:2016
- ✓ Information Security Management System: ISO/IEC 27001:2022
- ✓ Social Accountability Management System: SA8000:2014
- ✓ Hazardous Substance Process Management: IECQ QC 080000



Product Certifications:

UL 1973, UL 9540A, UL 9540, UL 2580, UL 2271, UL 1741
 IEC 62619
 EN 62477, EN 62040, (EU) 2023/1542, EN 62109-1, EN 62109-2

UL **EMC** FCC, IEC/EN 61000-6, BS EN IEC 61000-6
GRID **Function Safety** IEC 60730, ISO 13849-1
CB **Transport** UN 38.3
CE **RoHS** RoHS Directive 2011/65/EU & (EU) 2015/863

R&D and Manufacturing Highlights

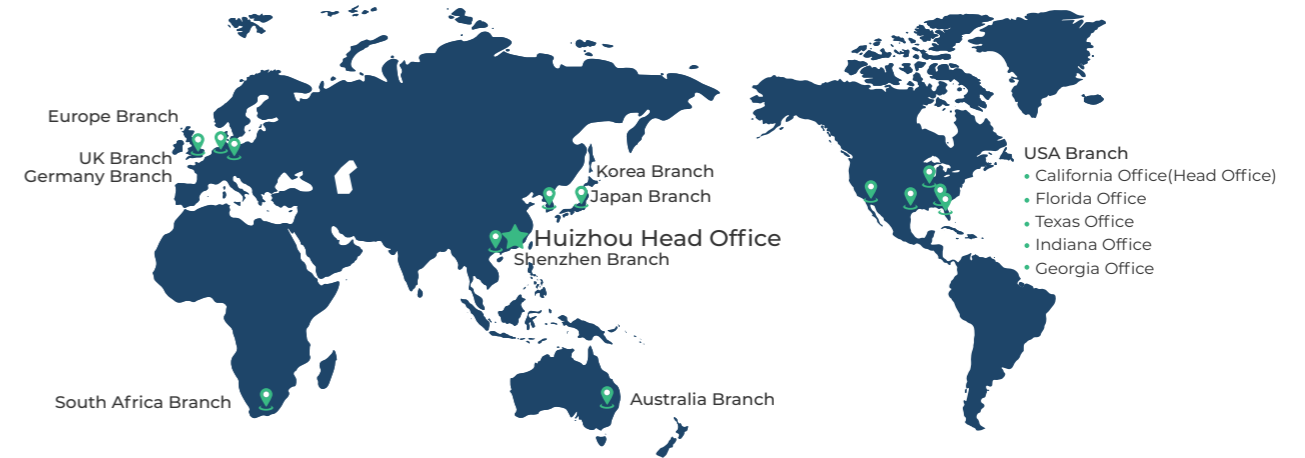
As a result of these investments, ROYPOW is capable of "end-to-end" integrated delivery, making our products out-perform the industry norms.

- Fully Automatic Production Lines
- BMS, PCS, EMS All Designed in House
- All-round Testing
- Advanced MES System

Global Sales and Service Network

- Timely Delivery
- Hassle-free After-sales Service
- Fast Response Technical Support

ROYPOW has comprehensively unfolded its overseas market layout to ensure the localization of R&D, manufacturing, marketing and service, becoming one of your most reliable and valuable partners.



Upgrading to New Technology, with Our Turnkey Solutions.

With years of dedication to new energy solutions, we are proud to offer customers professional solutions for:


- Low-speed Vehicle Batteries
- Battery Systems for Off-highway Applications
- Residential Energy Storage Systems
- Mobile Energy Storage Systems
- Industrial Batteries
- Battery Systems for Emerging Applications
- Commercial & Industrial Energy Storage Systems
- Chargers




Ideal Power Solutions for Modern Agricultural Practices

Agricultural environments are often characterized by long duty cycles and challenging weather patterns, which require safe and reliable power for electric agricultural equipment.


ROYPOW solutions for electric agricultural equipment, boasting numerous advantages, are making them an ideal choice for agricultural businesses aiming to enhance their operations.




Tractors



Harvesters



Lawn Mowers



ATV & UTV

THE POWER
BEHIND
PERFORMANCE

Advanced LFP Technology Create Great Value for Your Business

Compared with conventional lead-acid batteries and other types of lithium batteries, ROYPOW LiFePO4 technologies offer superior performance in longevity, efficiency, and safety. Choose to lower the total cost of ownership and upgrade farming operations.

LiFePO4		Lead-Acid	
Around 10 years	Design life	3 years	
>3,500 times	Cycle life	<500 times	
Maintenance-free	Maintenance	Regular maintenance required	
No memory effect and charge at any time	Charging time/frequency	8 to 10 hours of charging	
Multiple built-in protections	Safety	Potential acid spills	
Eco-friendly	Environment effects	Harmful lead	

Expenditures over 5 years	ROYPOW LiFePO4 battery	Lead-acid battery					ROYPOW
Battery cost							
Maintenance							
Electricity waste							
Installation							
Shipping							

Why

ROYPOW Batteries for Agricultural Equipment



Steady Output

LiFePO₄ batteries keep a steady power output, which will not dramatically drop like lead-acid batteries.



Long Life

A worthwhile investment with up to 10 years of design life and 3500 times of cycle life.



Increased Safety

The built-in hot aerosol fire extinguisher can quickly help with the fire fighting and reduce fire hazards for peace of mind.



Low-temperature Operation

The optional pre-heating function can warm up the battery for optimal charging even at a low temperature of -20°C.



IP65 Protection

Rated at IP65 protection grade, ROYPOW batteries are waterproof and dust-proof to maintain stable performance under all-weather working conditions.



SoC Meter

Display the battery's state of charge, status and malfunctioning information in real time.



5 Year Warranty

5-year warranty brings you hassle-free experience.



Self-Developed Intelligent Battery Management System (BMS)

ROYPOW's self-developed BMS ensures the electric agricultural equipment battery system's peak performance and safety through real-time monitoring and multiple protections, maximizing efficiency and extending battery life.



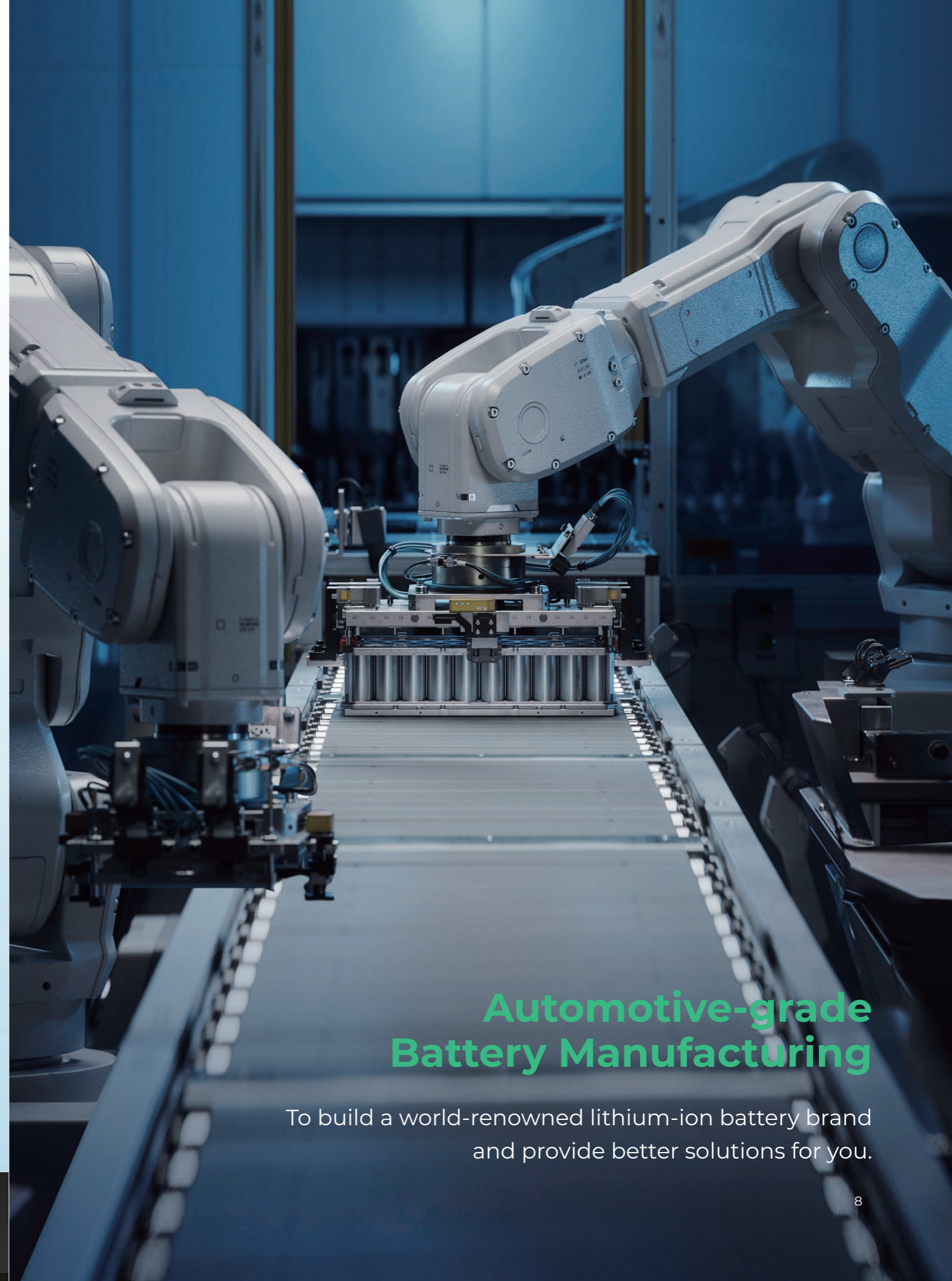
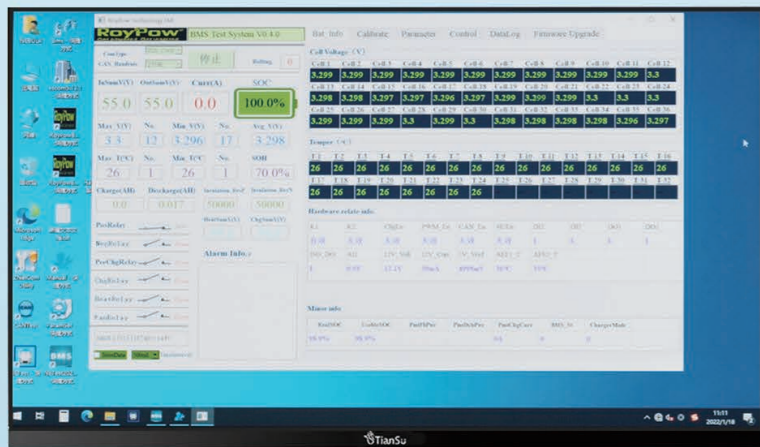
- ✓ All-Time Cell Balancing and Energy Management
- ✓ Real-time Monitoring and Communication Through CAN
- ✓ Battery Maintenance and Remote Upgrades
- ✓ Fault Alarm and Safety Protections

Smart 4G Module(Optional)

ROYPOW agricultural batteries feature the smart 4G module to realize real-time remote monitoring and minimize maintenance frequency and costs.



- ✓ Remote Battery Status Monitoring via APP and Web
- ✓ Remote Software Upgrades
- ✓ Easy Network Connection
- ✓ Faults Alarm



Automotive-grade Battery Manufacturing

To build a world-renowned lithium-ion battery brand and provide better solutions for you.













Safe, Reliable Intelligent Charging

ROYPOW professional charger enables optimal battery performance and the best communication between the charger and the battery.

- ✓ Reduce the need for a full charge every time
- ✓ Opportunity charge during breaks, lunch and at shift changes
- ✓ Eliminate the need for a dedicated charging area
- ✓ Minimize the need to buy, store, and maintain spares



Charging Management

-  Over-temperature protection
-  Short-circuit protection
-  Anti-reverse connection
-  Over-charge protection
-  Over-voltage protection
-  Timing protection
-  Smart display
-  Current limit function
-  Automatic power off
-  Over-current protection
-  Wide voltage operation
-  Constant current constant voltage

Technical Specifications

Battery Cell: Lithium Iron Phosphate (LFP)

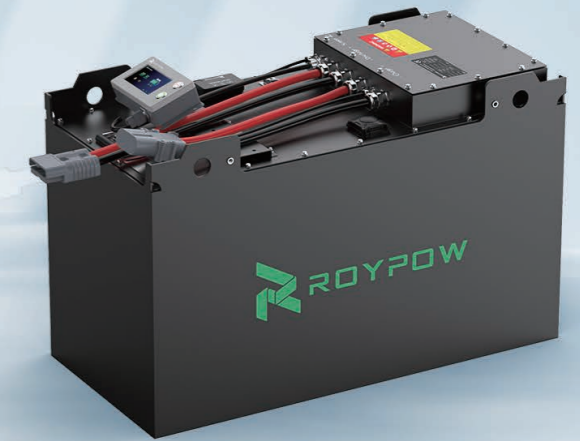
Rated Voltage: <1,000V

Rated Capacity: 15 Ah ~ 840 Ah

Cycle Life: Over 3,500 Times

Operating Temperature: -20°C ~ 60°C

Ingress Rating: IP65



<1,000V

Standard and Customizable Batteries for Agricultural Applications

