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Version: January 03, 2025, LiFePO₄ Batteries for Golf Carts / LSVs / UTVs

Lithium battery solutions LiFePO₄ Batteries for Golf Carts / LSVs / UTVs



The Global Leader in Lithium Golf Cart Batteries



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Your Trusted Partner*

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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
 IEEC 1547
 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

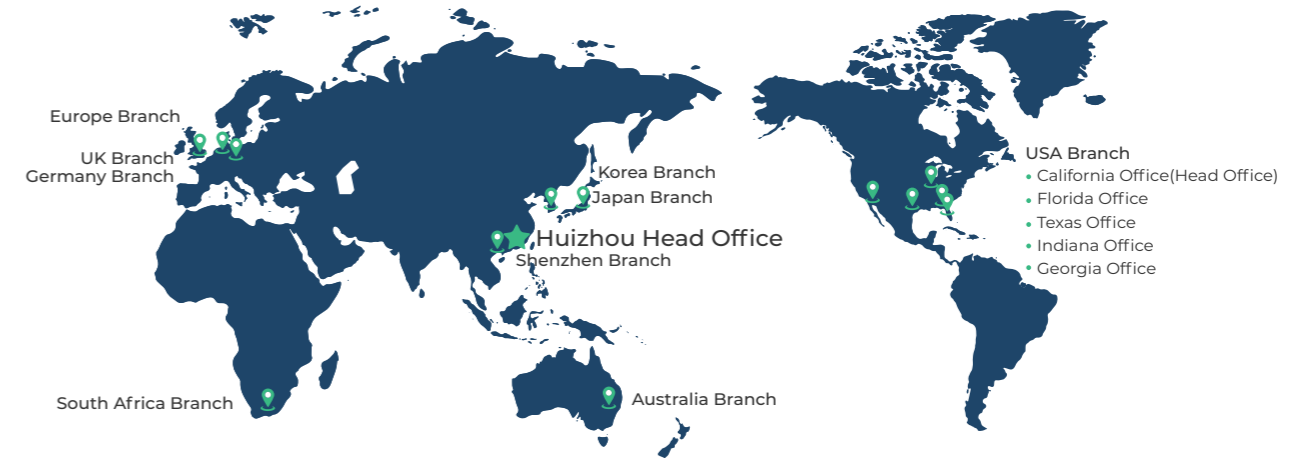
As a result of these investments, ROYPOW is capable of "end-to-end" integrated delivery, making our products out-perform the industry norms.

- 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



Meet the Ideal Power Solutions

Whether counting on the vehicle for work, to play more rounds on the course, or to zip around your community, a reliable and high-quality battery is essential to power your ride and ensure a smooth uninterrupted experience.



Golf Carts



Sight Seeing Shuttle

**THE POWER
BEHIND
PERFORMANCE**



UTV



Cart Tugger

100% Power. 100% Fun

ROYPOW lithium-powered batteries are the ideal choices to pair with the golf carts / LSVs / UTVs for top performance, consistently delivering sustained energy, marked by exceptional endurance and stability and ensuring you can always harness your golf cart potential to the fullest.



Last Longer



Go Further



More Fun

Lithium-Powered



Efficient and Powerful

- High sustained power without the voltage drop at the end of the cycle ✓
- As fast as 2.5 hours of charging time. No memory effect and charge any time ✓
- Light weight for easier maneuverability and faster start-up speed ✓



Ultra-Safe

- Seamless enclosure and IP67 rated. No water or dust are getting in ✓
- More thermal & chemical stability and reduced risk of thermal runaway ✓
- Intelligent BMS for automatic cell balancing, advanced battery management, and multiple protections ✓



Zero Maintenance

- ✓ No gas or acid spills, avoids the space, equipment and running costs of a battery room and ventilation system
- ✓ No need for frequent time-consuming battery swaps
- ✓ No maintenance saves labor and maintenance costs. Lower total costs of ownership

Long-Lasting. Long Runtime

- ✓ With up to 10 years design life and over 4,000 cycles
- ✓ Each unit is designed based on automotive-grade manufacturing standards
- ✓ Hold charge for 4 months

ⓘ ROYPOW batteries hold a charge from 4 to 8 months based on different products and weather conditions.



Power
That's Driven to Outperform

Give Extra Edges for Enjoyable Golfing

Note: ROYPOW offers standard and customizable power solutions to meet your specific requirements and fit more leading golf cart / LSVs / UTVs.



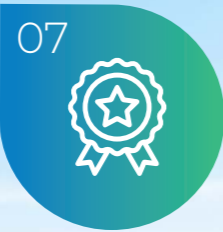
Eco-Friendly

Non-toxic and non-polluting. Good to you and the planet.



High Compatibility

36 V, 48 V, and 72 V batteries for various golf cart models.



5 Years of Full Replacement Warranty*

Extended warranty for greater peace of mind.

* ROYPOW provides a full replacement service if the battery cannot be fixed.

Give Extra Edges for Enjoyable Golfing



LiFePO₄ Benefits **over** Lead-Acid Batteries

All the powerful benefits make the ROYPOW LiFePO₄ battery an ideal replacement for traditional lead-acid batteries. Converting your battery to lithium-ion may require a higher initial investment, but its ongoing savings on energy, equipment, labor and downtime will dramatically lower your total cost of ownership (TCO).

LiFePO ₄		Lead-Acid	
Around 10 years	Design life	3 years	
4,000 times	Cycle life	< 500 times	
Maintenance-free	Maintenance	Regular maintenance required	
*About 2.5 hours, charge any time	Charging time/frequency	About 8 to 10 hours, charge after use	
Multiple built-in protections	Safety	Potential acid spills	
Eco-friendly	Environment effects	Harmful lead	

* Specific models charged in ROYPOW original chargers can achieve 2.5 hours of charging time.

Expenditures over 5 years	ROYPOW LiFePO ₄ battery	Lead-acid battery					ROYPOW
Battery cost							
Maintenance							
Electricity waste							
Installation							
Shipping							

L Series

Elevate your everyday ride with lithium-ion

Meet the ROYPOW L Series batteries that upgrade your golfing journey, providing the hassle-free experience they increasingly demand: longer lifespan, extended range, freedom from daily maintenance, and a guaranteed lifespan of 10 years.

Zero
Maintenance

Fast
Charge

Over
4,000
Cycle Life

5 YRS
Warranty

Integrated
Double Fuses

High
Discharge Current

*Specific models charged in ROYPOW original chargers can achieve 2.5 hours of charging time.



Save Up to
70%
Expenses in **5** Years

S51100L + S38100L New

Industry's first lithium golf cart battery with CTP design

IP67
Ingress Rating

>1 Year
Storage When Fully Charged

✓ **SoC Meter with Bluetooth Function**
Monitor the battery SoC, voltage, and current through the LED display and APP.

✓ **More Compact for Higher Compatibility**
Cell-to-Pack (CTP) technology ensures more compact batteries to fit more golf cart models.


10 Years
Design Life


>4,000
Cycle Life


✓ **High Current Output**
Consistent high performance to support faster start-up speed and ensure more efficient driving.





6-level
Safety
Protection


 **Material Safety**
Flame retardant UL94 V-0 materials.

 **Cell Safety**
Automotive-grade cells from the global top 3 brands.

 **Manufacturing Safety**
Smart and strict control across the manufacturing process.

 **BMS Safety**
Self-developed intelligent BMS with multiple protections.

 **Pack Safety**
Integrated fuse and passed 18 reliability and safety tests.

 **Safety Certifications**
Cells certified to 10+ industry standards such as IEC62619 and UL1642.

P Series

More power for demanding riding applications

ROYPOW P Series batteries enjoy all the benefits of lithium technologies while giving extra power tailored for load-carrying utility vehicles, multi-seaters, and rugged terrain transport.

Whether you're navigating the great outdoors for hunting or conquering steep hills, the P Series guarantees an extensive range and unparalleled safety, redefining your expectations.

Zero
Maintenance

Fast
Charge

Over
3,500
Cycle Life

5 YRS
Warranty

Integrated
Double Fuses

High
Discharge Current

*Specific models charged in ROYPOW original chargers can achieve 5 hours of charging time.



Save Up to
70%
Expenses in **5** Years



High Discharge Current

For navigating steep inclines or accelerating with a substantial payload, the battery consistently outperforms in the most challenging environments.



Automatic Switch off

The automatic power-saving mode activates if the battery remains idle for over 8 hours, effectively reducing energy wastage.



Remote Switch

Unlike standard batteries located beneath the seat, the battery offers the flexibility to position the switch on the dashboard or any preferred location for your utmost convenience.



Technical Specifications



Model	Nominal Voltage	Nominal Capacity	Nominal Energy	Cycle Life	Continuous Charge / Discharge	Maximum Charge / Discharge Current	Mileage Per Full Charge	Dimensions (L*W*H)	Weight lbs. (kg)	IP Rating
L Series										
S38100L	38.4 V	100 Ah	3.84 kWh	>4,000 Times	20 A / 100 A	40 A / 300 A	30-40 miles (48-64 km)	15.34 x 10.83 x 10.63 inch (389.6 x 275.1 x 270 mm)	94.80±4.41 lbs (43±2 kg)	IP67
S5165A	51.2 V	65 Ah	3.33 kWh	>4,000 Times	30 A / 130 A	55 A / 195 A	25-32 miles (40-51 km)	17.05 x 10.95 x 10.24 inch (433 x 278.5 x 260 mm)	88.18 lbs (≤40 kg)	IP67
S5165L	51.2 V	65 Ah	3.33 kWh	>4,000 Times	30 A / 130 A	55 A / 195 A	25-32 miles (40-51 km)	18.11 x 10.94 x 10.24 inch (460 x 278 x 260 mm)	88.18 lbs (≤40 kg)	IP67
S51100L	51.2 V	100 Ah	5.10 kWh	>4,000 Times	20 A / 130 A	40 A / 300 A	40-50 miles (64-80 km)	15.34 x 10.83 x 10.63 inch (389.6 x 275.1 x 270 mm)	110.23±4.41 lbs (50±2 kg)	IP67
S51150L	51.2 V	150 Ah	7.68 kWh	>4,000 Times	30 A / 150 A	50 A / 350 A	60-70 miles (97-113 km)	31.50 x 12.60 x 8.58 inch (800 x 320 x 218 mm)	149.91 lbs (68 kg)	IP67
S51200L-A	51.2 V	200 Ah	10.24 kWh	>4,000 Times	100 A / 200 A	120 A / 300 A	80-100 miles (128-160 km)	19.17 x 13.15 x 20.87 inch (488 x 334 x 530 mm)	198.42±11.02 lbs (91±5 kg)	IP67
S51230L	51.2 V	230 Ah	11.776kWh	>4,000 Times	30 A / 230 A	100 A / 230 A	100-120 miles (160-190 km)	20.94 x 22.16 x 11.63 inch (532 x 563 x 295.5 mm)	209.43±22.05 lbs (95±10 kg)	IP67
P Series										
S51105P-N	51.2 V	100 Ah	5.12 kWh	>4,000 Times	30 A / 130 A	55 A / 315 A	40-50 miles (64-80 km)	22.17 x 12.99 x 9.98 inch (565 x 330 x 253.6 mm)	105.82±4.41 lbs (48±2 kg)	IP67
S51150P-A	51.2 V	150 Ah	7.68 kWh	>4,000 Times	30 A / 180 A	40 A / 315 A	60-70 miles (97-113 km)	31.50 x 14.19 x 8.78 inch (800 x 360.4 x 223 mm)	145.51±6.61 lbs (66±3 kg)	IP67
S72100P-B	76.8 V	100 Ah	7.68 kWh	>4,000 Times	20 A / 100 A	40 A / 300 A	60-70 miles (97-113 km)	31.50 x 12.97 x 10.08 inch (800 x 329.4 x 256 mm)	147.71±11.02 lbs (67±5 kg)	IP67
S72150P-A	76.8 V	150 Ah	11.52kWh	>4,000 Times	30 A / 160 A	50 A / 315 A (30 S)	80-100 miles (130-180 km)	37.80 x 17.56 x 10.69 inch (960 x 446 x 271.5 mm)	220.46±22.05 lbs (100±10 kg)	IP67
S72200P-A	76.8 V	200 Ah	15.36 kWh	>4,000 Times	30 A / 180 A	50 A / 315 A (30 S)	100-120 miles (150-200 km)	44.78 x 16.14 x 10.51 inch (1137.6 x 410 x 267 mm)	275.57±22 lbs (125±10 kg)	IP67
Working Temperature Range	Charge		Discharge		Storage (1 month)		Storage (1 year)			
	32°F~131°F (0°C ~ 55°C)		-4°F~131°F (-20°C ~ 55°C)		-4°F~131°F (-20°C ~ 55°C)		32°F~95°F (0°C~35°C)			

Note: 1. Only authorized personnel are allowed to operate or make adjustments to the batteries.
2. All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions.

Original Charger for Golf Carts / LSVs / UTVs

Charge Easier, Faster, and Safer.

ROYPOW LiFePO₄ batteries should be charged with the self-developed ROYPOW chargers to deliver a fast charging experience, keep the best communication between the batteries and chargers, and ensure optimal battery performance for extended battery life.



Safe & Fast Charging

Charge safely. As little as 2.5 hours fast charging.



IP66 Rating

Protection against water, corrosion, dirt & mud.



Intelligent Protection

Prevention against hot unplugging & plug-in, as well as arc discharge.



Zero Maintenance

Built with high reliability and requires virtually no maintenance.

Technical Specifications



Model	DC Output					AC Input						Mechanical		
	Maximum DC output voltage	Maximum DC output current	Maximum DC output power	Nominal DC output current	Battery type	AC input voltage range	Nominal AC input voltage	Nominal AC input frequency	Maximum AC input current	Nominal AC input current	Power factor	Dimensions	Weight	Cooling
RP4222-LFP	43.5 V	22 A	1,000 W	22A@110VAC, 22A@220VAC	Lithium	85-270 V	100-240 V	50-60 Hz	16 A	11 A	>0.9	11.1 x 6.57 x 4.5 inch (28.2 x 16.7 x 11.4 cm)	10.4 lbs (4.7 kg)	Active cooling with fan
RP5813-LFP	58 V	13 A	900 W	13A@110VAC, 13A@220VAC	Lithium	85-270 V	100-240 V	50-60 Hz	16 A	11 A	>0.9	8.46 x 3.72 x 2.16 inch (21.5 x 9.5 x 5.5 cm)	7 lbs (3.2 kg)	Active cooling with fan
RP5622-LFP	58 V	22 A	1,250 W	22A@110VAC, 22A@220VAC	Lithium	85-270 V	100-240 V	50-60 Hz	16 A	11 A	>0.9	11.1 x 6.57 x 4.5 inch (28.2 x 16.7 x 11.4 cm)	10.4 lbs (4.7 kg)	Active cooling with fan
RP8714-LFP	87 V	14 A	1,900 W	14A@110VAC, 22A@220VAC	Lithium	85-270 V	100-240 V	50-60 Hz	16 A	11 A	>0.9	11.1 x 6.57 x 4.5 inch (28.2 x 16.7 x 11.4 cm)	10.4 lbs (4.7 kg)	Active cooling with fan
CHG2430T	29.2 V	30 A	900 W	30A@110VAC, 30A@220VAC	Lithium	85-270 V	120-240 V	45-65 Hz	9 A	9 A	≥0.99	98.4 x 53.5 x 45.7 inch (250 x 136 x 116 cm)	8.8 lbs (4 KG)	Temperature controlled air cooling
CHG3622T	43.2 V	22 A	1100 W	22A@110VAC, 22A@220VAC	Lithium	85-270 V	120-240 V	45-65 Hz	9 A	9 A	≥0.99	104.9 x 65.7 x 34.1 inch (266.5 x 167 x 86.5 cm)	11.02 lbs (5 KG)	Temperature controlled air cooling
CHG4815T	58.4 V	15 A	900 W	15A@110VAC, 15A@220VAC	Lithium	85-270 V	120-240 V	45-65 Hz	9 A	9 A	≥0.99	98.4 x 53.5 x 45.7 inch (250 x 136 x 116 cm)	8.8 lbs (4 KG)	Temperature controlled air cooling
CHG4820T	58.4 V	20 A	1,100 W	20A@110VAC, 20A@220VAC	Lithium	85-270 V	120-240 V	45-65 Hz	11 A	11 A	≥0.99	104.9 x 65.7 x 34.1 inch (266.5 x 167 x 86.5 cm)	11.02 lbs (5 KG)	Temperature controlled air cooling
CHG7215T	87.6 V	15 A	1100 W	15A@110VAC, 15A@220VAC	Lithium	85-270 V	120-240 V	45-65 Hz	11 A	11 A	≥0.99	104.9 x 65.7 x 34.1 inch (266.5 x 167 x 86.5 cm)	11.02 lbs (5 KG)	Temperature controlled air cooling
Environmental	IP rating: IP66		Humidity: 5% - 95%		Operating temperature: -40°F - 185°F (-40°C - 85°C)				Storage temperature: -40°F - 185°F (-40°C - 85°C)					

Note: 1. Only authorized personnel are allowed to operate or make adjustments to the batteries.
2. All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions.

Power Solutions for Various Applications

When on the course, on campus, moving around a resort, or using it as a personal transport vehicle, ROYPOW lithium batteries power your needs.

