ROYPOW TECHNOLOGY CO., LTD. has a policy of improving products continuously. All the information in this catalogue is provided for reference only. We reserve the right to make revisions as well as product alterations and improvements at any time without prior notice. Trademarks are the property of ROYPOW TECHNOLOGY CO., LTD. or their respective owners. Technical data and illustrations are not binding. We assume no liability for misprints.

Version: February 26, 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



ROYPOW, Your Trusted Partner

Contents

Introduction of LiFePO₄ Golf Carts / LSVs / UTVs Batteries

Advantages of LiFePO₄ Golf Carts / LSVs / UTVs Batteries

Choose the Best LiFePO₄ Golf Carts / LSVs / UTVs Batteries



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

231 Patents

Quality Control Certificates:

Environmental Management System:

ISO 14001:2015

✓ Occupational Health and Safety Management System:

ISO45001:2018

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





FCC, IEC/EN 61000-6, BS EN IEC 61000-6

IEEE 1547





IEC 60730, ISO 13849-1

IEC 62619





UN 38.3

EN 62477, EN 62040, (EU) 2023/1542, EN 62109-1, EN 62109-2



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.









Global Sales and Service Network



Timely Delivery





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:

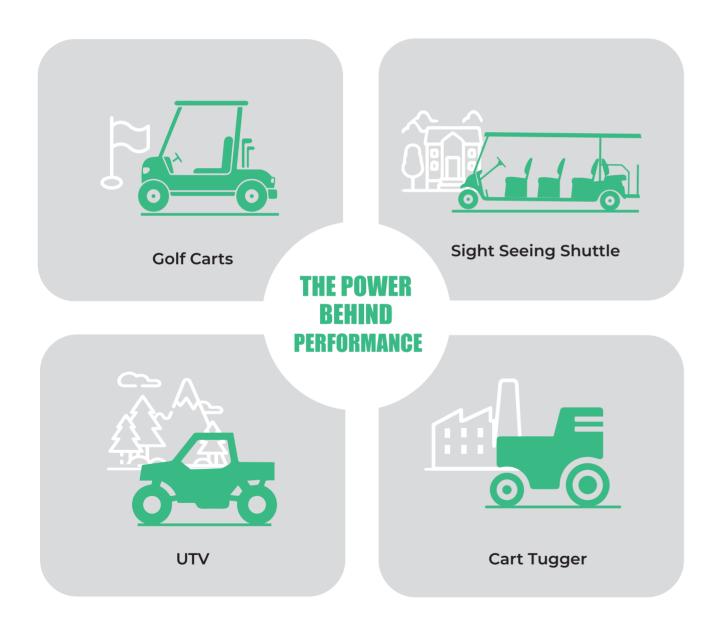
- > Low-speed Vehicle Batteries
- > Battery Systems for Off-highway Applications
- Residential Energy Storage Systems
- > Mobile Energy Storage Systems

- > Industrial Batteries
- > Battery Systems for Emerging Applications
- Commercial & Industrial Energy Storage Systems
- Motors, Controllers and 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.



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



5

Efficient and Powerful

- High sustained power without the voltage drop at the end of the cycle \checkmark
- 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 ✓





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

Ultra-Safe

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





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



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 batteies for various golf cart models.



5 Years of Full Replacement Warranty*

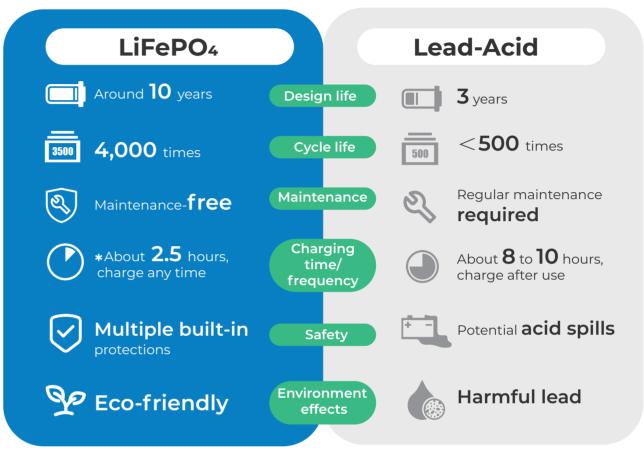
Extended warranty for greater peace of mind.

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









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

Expenditures over 5 years	ROYPOW LiFePO ₄ battery	Lead-			ROYPOW		
Battery cost	\$	\$	\$	\$	\$	\$	
Maintenance	/						
Electricity waste	/	0))))	0))))	0))))	0))))	0))))	
Installation	0)	0))	0))	0))	0))	0)	
Shipping	9	0)	9	9	9	9	

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

Cycle Life

Warranty

Integrated **Double Fuses** High Discharge Current



S51100L + S38100L New



Industry's first lithium golf cart battery with CTP design

Ingress Rating

Storage When Fully Charged

Design Life

Cycle Life

✓ SoC Meter with Bluetooth Function

Monitor the battery SoC, voltage, and current through the

More Compact for Higher Compatibility

Cell-to-Pack (CTP) technology ensures more compact batteries to

High Current Output

Consistent high performance to support faster start-up speed



6-level Safety Protection



Flame retardant UL94 V-0 materials.



Manufacturing Safety

Smart and strict control across the manufacturing process.



Pack Safety

Integrated fuse and passed 18 reliability and safety tests.



Automotive-grade cells from the global top 3 brands.



BMS Safety

Self-developed intelligent BMS with multiple protections.



Safety Certifications

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

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

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.

ZeroMaintenance

5 YRS

Warranty

Integrated

Double Fuses

Fast

Charge

Over **3,500**Cycle Life

HighDischarge Current

Expenses in 5 Years

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





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			Cycle	Continuous Charge /	Maximum Charge / Discharge	Mileage	Dimensions	Weight	IP		
Model	Voltage	Capacity	Energy	Life	Discharge	Current	Per Full Charge	(L*W*H)	lbs. (kg)	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 Temperat	ure Rang	ge	Charge 32°F~131°F (0)°C ~ 55°C)		charge -~131°F (-20°C ~ 55°C		age (1 month) 131°F (-20°C ~ 55°C)	Storage (1y 32°F~95°F (0°	•		

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.















17