

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: July 22, 2025, LiFePO₄ Batteries for Golf Carts / LSVs / UTVs



ROYPOW Technology Co., Ltd.

Tel: +86 (0)752-327 9099

Email: sales@roypow.com
service@roypow.com
marketing@roypow.com

Web: www.roypow.com

Add: ROYPOW Industrial Park, No.16, Dongsheng South Road,
Chenjiang Street, Zhongkai High-Tech District, Huizhou City,
Guangdong Province, China

ROYPOW (USA) Technology Co., Ltd.

Tel: +1 512 688 5555 (Texas Office)

Email: sales@roypowusa.com

Email: service@roypowusa.com

Web: www.roypow.com

Head Office: 5901 Triumph St, Commerce, CA 90040, USA

Texas Office: 2350 Campbell Creek Blvd #100 Richardson, TX 75082, USA

Florida Office: 277 Douglas Avenue, Unit 1004, Altamonte Springs, FL 32714, USA

Indiana Office: 5545 W Raymond St, Ste H Indianapolis, IN 46241, USA

Georgia Office: 1150 Cobb International Pl NW Ste A, Kennesaw, GA 30152, USA

ROYPOW Technology UK Limited

Tel: 079 3818 1019 / 07425566908

Email: sales.uk@roypow.com

Add: Regus Green Park, 200 Brook Dr, Reading RG2 6UB, UK

ROYPOW Australia Technology Pty Ltd

Email: sales@roypowtech.com.au

Tel: +61 29185 0814

Web: www.roypowtech.com.au

Add: Suite 803a, 18 Orion Road, Lane Cove, NSW, 2066, Australia

ROYPOW (Europe) Technology B.V.

Email: sales.eu@roypow.com

Tel: +31 702 001 114

Web: www.roypoweuropa.com

Add: K.P. van der Mandelelaan 84, 3062 MB Rotterdam, The Netherlands

ROYPOW Technology GmbH

Tel: +49 (0) 176 2358 8956

Email: sales.de@roypow.com

Web: www.roypow.gmbh

Add: Rosa-Parks-Straße 4, 64295 Darmstadt, Germany

ROYPOW株式会社

Tel: +81 090 7092 6969

Email: sales.jp@roypow.com

Web: www.roypow.co.jp

Add: 〒271-0094 千葉県松戸市上矢切299-7

ROYPOW Technology Co., Ltd (Korea)

Tel: 1555-2016

Email: sales.kr@roypow.com

Add: 2405, GIDC Gwangmyeong station A Dong, 43 Iljik-ro,
Gwangmyeong-si, Gyeonggi-do, Korea

ROYPOW Battery Technology (Pty) Ltd

Email: sales.za@roypow.com

Tel: +27 10 900 5808

Add: 53 Lake Rd, Longmeadow Business Estate, Edenvale, 1609, South Africa

PT ROYPOW HIGHTECH INDONESIA

Add: Horizon Industrial Park Factory, Type A, Lot 05, Sungai Pelunggut
Sub-district, Sagulung District, Batam City, Riau Islands Province, Indonesia

Lithium battery solutions



LiFePO₄ Batteries for Golf Carts / LSVs / UTVs

The Global Leader
in Lithium Golf Cart Batteries



✉ sales@roypow.com
🌐 www.roypow.com



*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
200+ R&D People
105,000 m² Headquarters Floor Area
2,500 m² Testing Center
284 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**



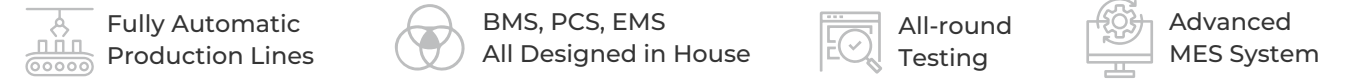
Product Certifications:

UL 1973, UL 9540A, UL 9540, UL 2580, UL 2271, UL 1741
 IEEE 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.



Global Sales and Service Network



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

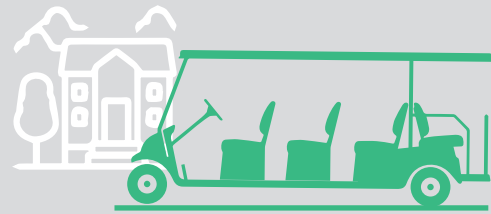


Meet the Ideal Power Solutions

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.



Golf Carts



Sight Seeing Shuttle



UTV



Cart Tugger

**THE POWER
BEHIND
PERFORMANCE**

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

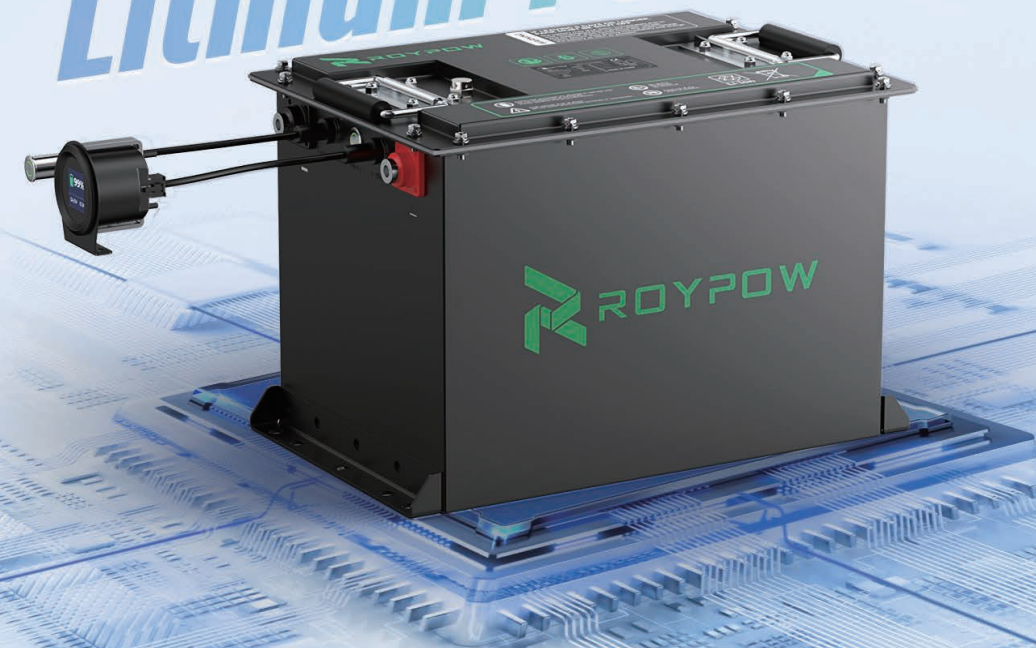


Go Further



More Fun

Lithium-Powered

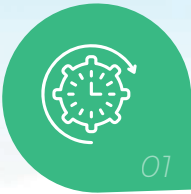


Efficient and Powerful

- ✓ 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 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.

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).

LiFePO4	Lead-Acid
Around 10 years	3 years
4,000 times	< 500 times
Maintenance- free	Regular maintenance required
*About 2.5 hours, charge any time	About 8 to 10 hours, charge after use
Multiple built-in protections	Potential acid spills
Eco-friendly	Harmful lead

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

Expenditures over 5 years	ROYPOW LiFePO4 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

5 YRS
Warranty

Fast
Charge

Integrated
Double Fuses

Over
4,000
Cycle Life

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

10 Years
Design Life

>4,000
Cycle Life

✓ **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.

✓ **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.



Manufacturing Safety

Smart and strict control across the manufacturing process.



Pack Safety

Integrated fuse and passed 18 reliability and safety tests.



Cell Safety

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.

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

5 YRS
Warranty

Fast
Charge

Integrated
Double Fuses

Over
3,500
Cycle Life

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
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	>3,000 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	>3,000 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	>3,000 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 32°F~131°F (0°C ~ 55°C)		Discharge -4°F~131°F (-20°C ~ 55°C)		Storage (1 month) -4°F~131°F (-20°C ~ 55°C)		Storage (1 year) 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.



Automotive-grade
Battery Manufacturing

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

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.

