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Version: March 06, 2024, LiFePO<sub>4</sub> Batteries for Golf Carts / LSVs / UTVs

# Lithium battery solutions LiFePO<sub>4</sub> Batteries for Golf Carts / LSVs / UTVs



The Global Leader  
in Lithium Golf Cart Batteries



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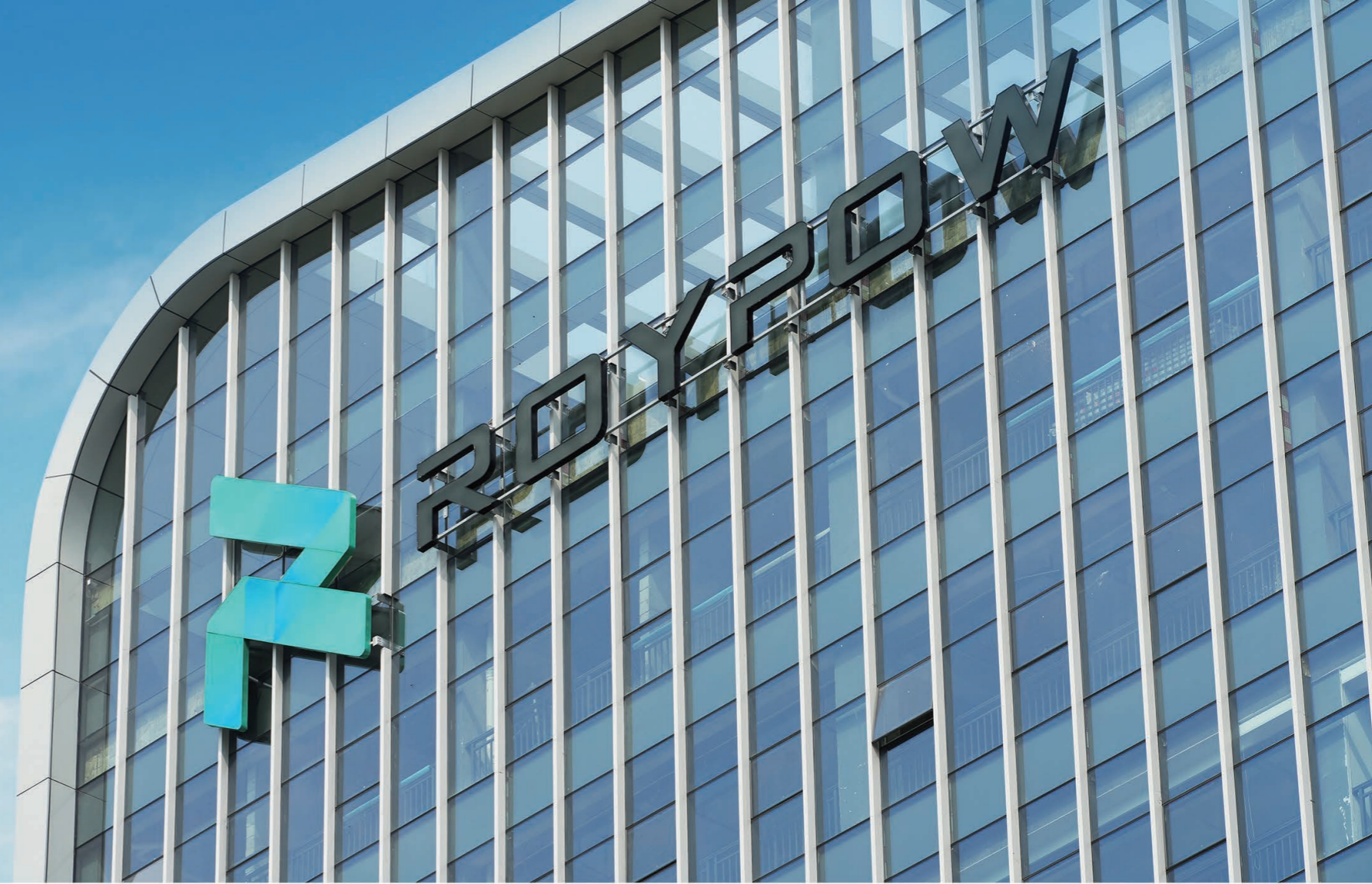
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# ROYPOW

Your Trusted Partner



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## 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

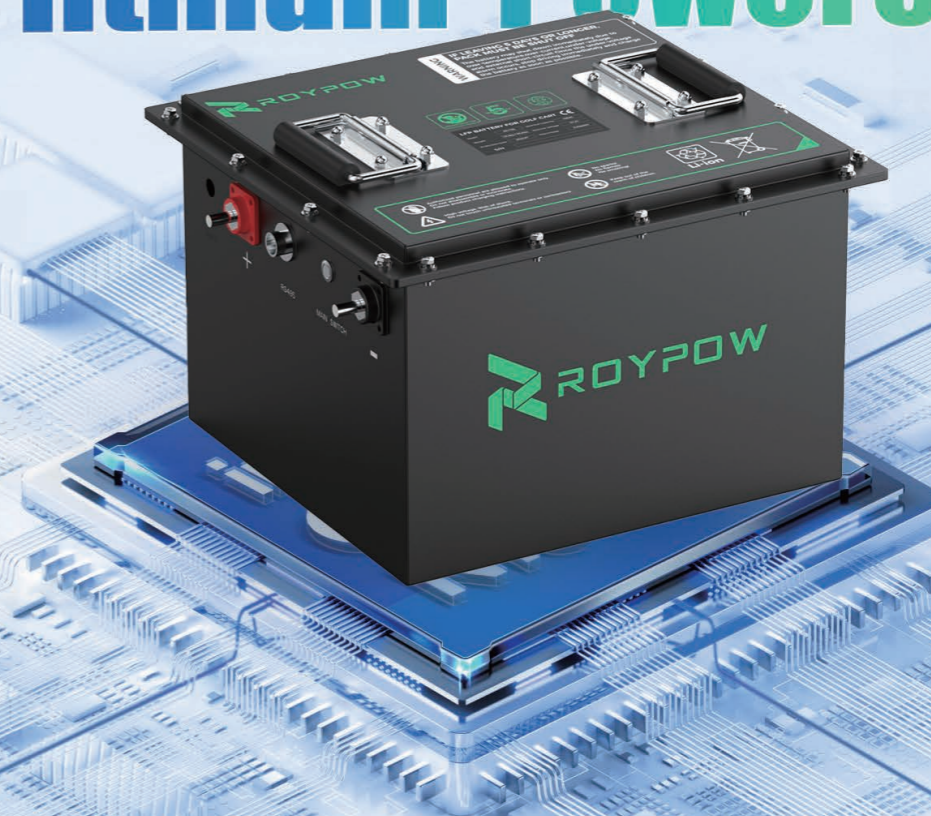


Go Further



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



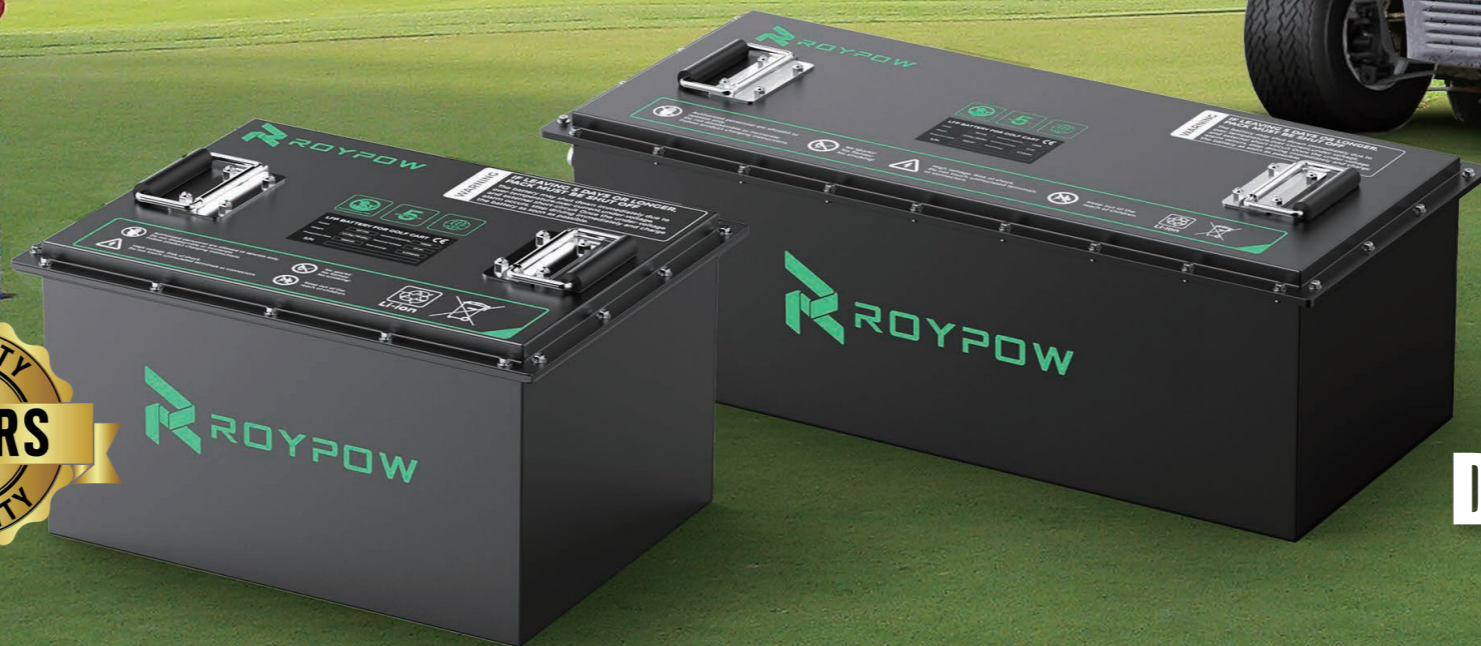
### Zero Maintenance

- ✓ 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 3,500 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.



**5 Years of Full Replacement Warranty**

Extended warranty for greater peace of mind.



**High Compatibility**

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



**Give Extra Edges for Enjoyable Golfing**

**LiFePO<sub>4</sub> Benefits over Lead-Acid Batteries**

All the powerful benefits make the ROYPOW LiFePO<sub>4</sub> 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 <sub>4</sub>		Lead-Acid	
Around <b>10</b> years	<b>Design life</b>	<b>3</b> years	
<b>&gt;3,500</b> times	<b>Cycle life</b>	<b>&lt;500</b> times	
<b>Maintenance-free</b>	<b>Maintenance</b>	Regular maintenance <b>required</b>	
*About <b>2.5</b> hours, charge any time	<b>Charging time/frequency</b>	About <b>8 to 10</b> hours, charge after use	
<b>Multiple built-in</b> protections	<b>Safety</b>	Potential <b>acid spills</b>	
<b>Eco-friendly</b>	<b>Environment effects</b>	<b>Harmful lead</b>	

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

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

Choose the Best LiFePO<sub>4</sub> Battery for Golf Carts / LSVs / UTVs

# 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

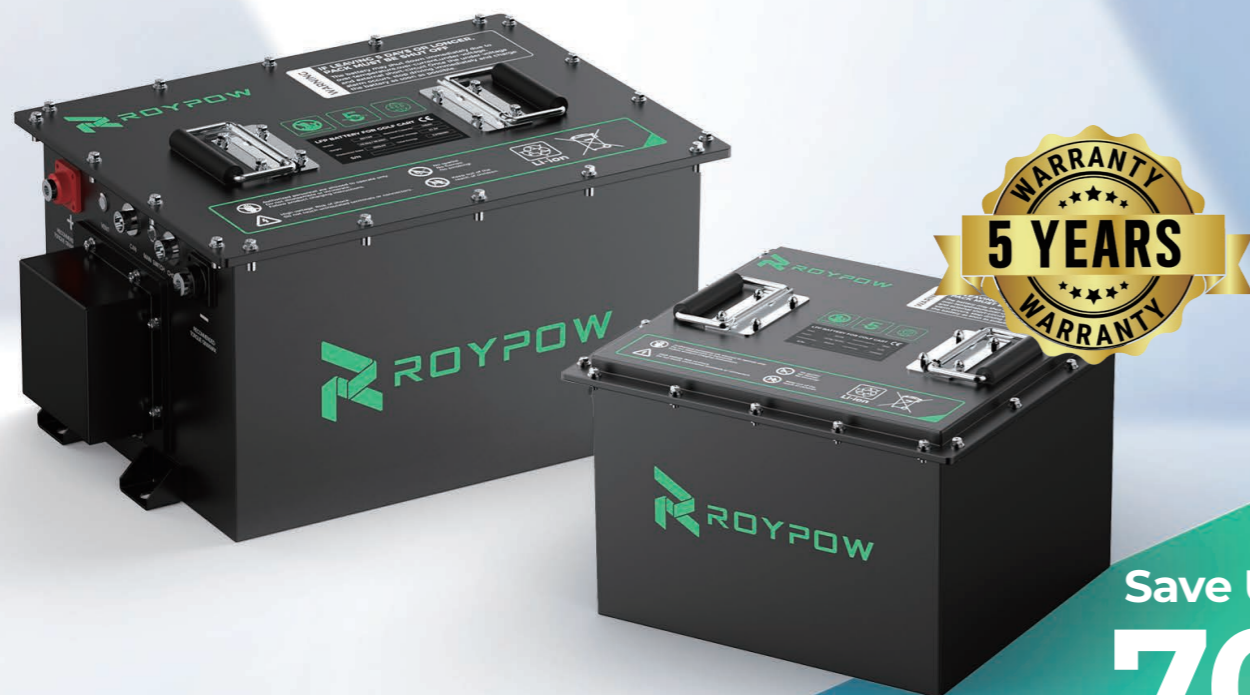
Over  
**3,500**  
Cycle Life

**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

## S51105L **New**

New-Generation  
Power Upgrade

- Higher acceleration
- Faster start-up speed
- More safety



### S51105L **New**

### S51105 **Old**

Continuous discharge current	<b>230 A</b>	100 A
Max. discharge current	<b>250 A(120 s)</b>	200A(10 s)
Fuse	<b>Professional; independent</b>	Ordinary; integrated
Peak discharge current	<b>500 A (2 s)</b>	200 A

# 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

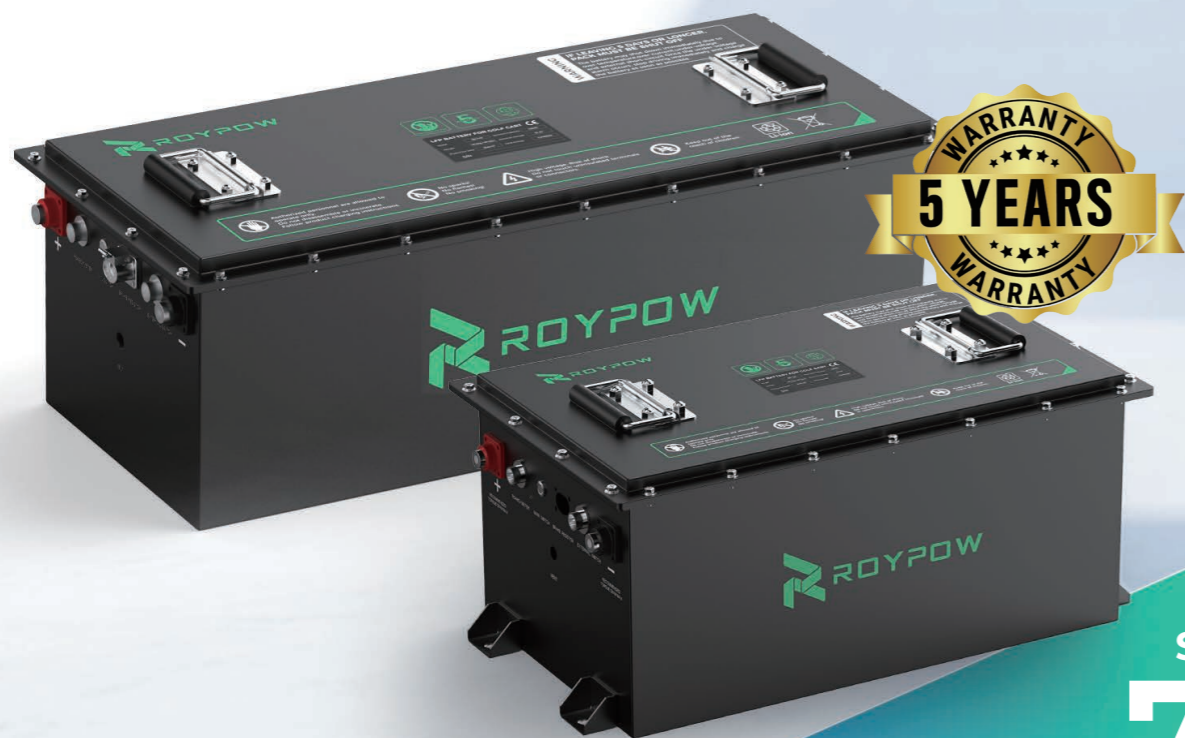
Over  
**3,500**  
Cycle Life

**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	Dimensions (L*W*H)	Weight lbs. (kg)	Peak Continuous Discharge	Mileage Per Full Charge	Casing Material	IP Rating
L Series	S38105L	38.4 V	100 Ah	3.84 kWh	>3500 times	15.2 x 13.3 x 9.6 inch (385 x 338 x 245 mm)	75 lbs (34 kg)	200 A (10 S)	30-40 miles (48-64 km)	Steel	IP67
	S51165L	51.2 V	65 Ah	3.33 kWh	>3500 times	19.292 x 13.15 x 9.233 inch (490 x 334 x 234.5 mm)	66 lbs (30kg)	200 A (10 S)	25-32 miles (40-51 km)	Steel	IP67
	S51105L	51.2 V	100 Ah	5.12 kWh	>3500 times	19.292 x 13.15 x 9.233 inch (490 x 334 x 234.5 mm)	95.24 lbs (43 kg)	250 A (120 S)	40-50 miles (64-80 km)	Steel	IP67
P Series	S51105P	51.2 V	100 Ah	5.12 kWh	>3500 times	22.245 x 12.993 x 9.449 inch (565 x 330 x 240 mm)	101.42 lbs (46 kg)	315 A (30 S)	40-50 miles (64-80 km)	Steel	IP67
	S51160P	51.2 V	160 Ah	8.19 kWh	>3500 times	31.497 x 14.189 x 8.78 inch (800 x 360.4 x 223 mm)	165.35 lbs (75 kg)	315 A (30 S)	60-70 miles (96-112 km)	Steel	IP67
	S72105P	76.8 V	100 Ah	7.68 kWh	>3500 times	29.13 x 12.58 x 9.67 inch (740 x 319.6 x 245.6 mm)	152.12 lbs (69 kg)	315 A (30 S)	60-70 miles (96-112 km)	Steel	IP67

<b>Working Temperature Range</b>	<b>Charge</b> 32°F~131°F (0°C ~ 55°C)	<b>Discharge</b> -4°F~131°F (-20°C ~ 55°C)	<b>Storage (1 month)</b> -4°F~131°F (-20°C ~ 55°C)	<b>Storage (1 year)</b> 32°F~95°F (0°C~35°C)
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**Customized**

**L Series\*:** S51200L    **P Series\*:** S51200P, S72160P, S72200P, S96130P

\* represents non-standard, customized batteries that require reservation. ROYPOW offers larger-capacity golf cart batteries. Please contact our sales representative for inquiries.

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 LiFePO<sub>4</sub> 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

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.



# ROYPOW, For One-stop New Energy Solutions

ROYPOW TECHNOLOGY is dedicated to the R&D, manufacturing and sales of motive power systems and energy storage systems as one-stop solutions.

With more than 20 years of combined experience in manufacturing renewable energy and battery systems, ROYPOW provides Lithium-ion Batteries covering most daily living and working fields: for Low-Speed Vehicles such as golf carts, personnel carriers; Industrial Batteries for use in Material Handling Equipment such as forklifts, aerial work platforms and floor cleaning machines as well as renewable Energy Storage Systems for residential, commercial, industrial, vehicle-mounted and marine applications.

ROYPOW has established a worldwide network to serve customers with a manufacturing center in China and subsidiaries in the USA, the UK, Germany, the Netherlands, South Africa, Australia, Japan and Korea to date. ROYPOW owns and operates fully automatic production lines, a full range of test equipment and an advanced MES that collectively address all aspects of its manufacturing process, from electronics, software design to module assembly, battery assembly as well as initial and final testing. ROYPOW focuses on the self-development of power electronics technologies, including PCS, BMS, and EMS as the core competence.

As a renewable energy innovator, ROYPOW is committed to the mission of achieving energy sustainability while creating a better life for human beings.



## 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.

- All-round testing.
- Integrated design.
- Advanced MES system.
- IATF 16949 automotive quality management system certification
- QC system.
- Persistent technology innovation.
- Fully automatic production line.
- ISO12405-2 vibration performance and safety testing of automotive lithium batteries

## Global Sales and Service Network System

- 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** including golf carts and sightseeing cars;
- ✓ **Industrial Batteries** including forklifts, aerial work platforms and floor cleaning machines;
- ✓ **Vehicle-Mounted Energy Storage Systems & Batteries** including RV and truck energy storage and air conditioning systems, off-grid solar systems for RV, as well as power batteries for electric motorcycles;
- ✓ **Residential Energy Storage Systems & Portable Power Units** including home storage and portable energy storage products, as well as off-grid energy storage (for forest cabin, island homes without electricity, etc.);
- ✓ **Marine Energy Storage Systems & Batteries** including trolling motors, fish finders, other off-grid energy storage systems for marine, and marine power systems;
- ✓ **Commercial & Industrial Energy Storage Systems** including diesel generator power micro-grid energy storage systems (for tower cranes, air compressors, mixers, crushers, etc);
- ✓ **Chargers** for forklifts, aerial work platforms, floor cleaning machines, golf carts and various marine batteries.

