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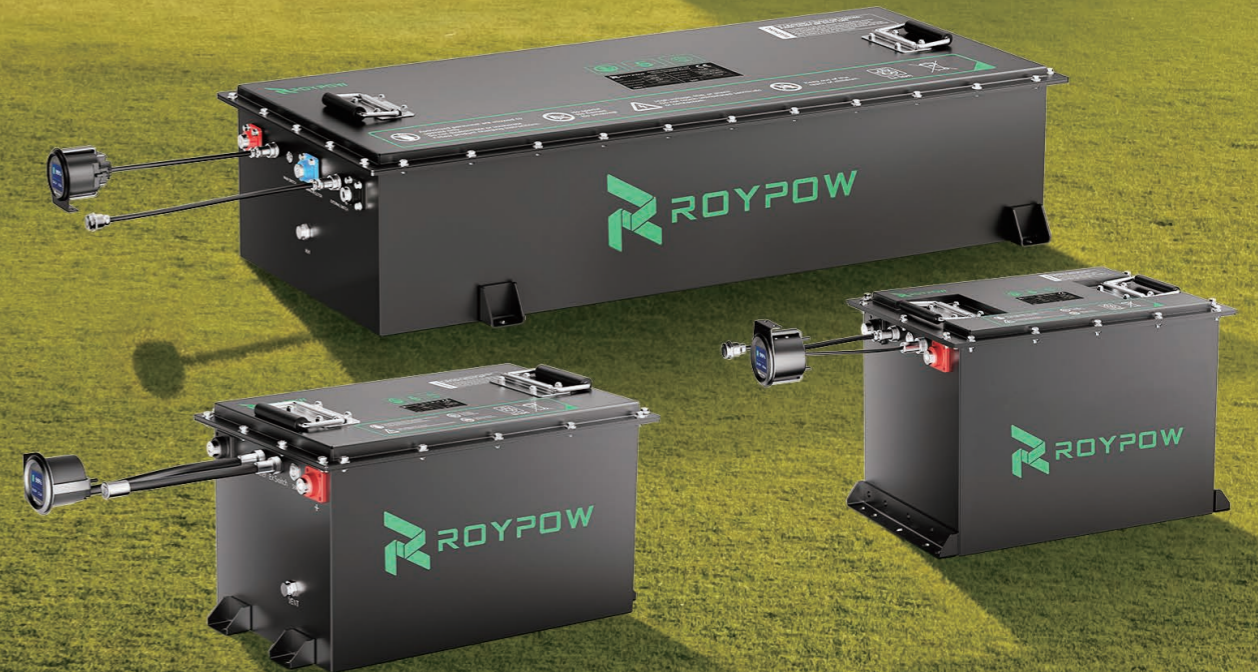
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Lithium battery solutions

LiFePO₄ Batteries for Golf Carts / LSVs / UTVs

The Global Leader
in Lithium Golf Cart Batteries



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www.roypow.com



*ROYPOW,
Your Trusted Partner*

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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 Complete Power Solutions for Off-Road Vehicles, Marine Power System, Jobsite ESS, Vehicle-Mounted ESS, and Electric Retrofit Solutions
- Self-development of power electronics technologies, including PCS, BMS, and EMS, as well as motor and controller motion control algorithms



750+ Employees
200+ R&D People
105,000 m² Headquarters Floor Area
2,500 m² Testing Center
364 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

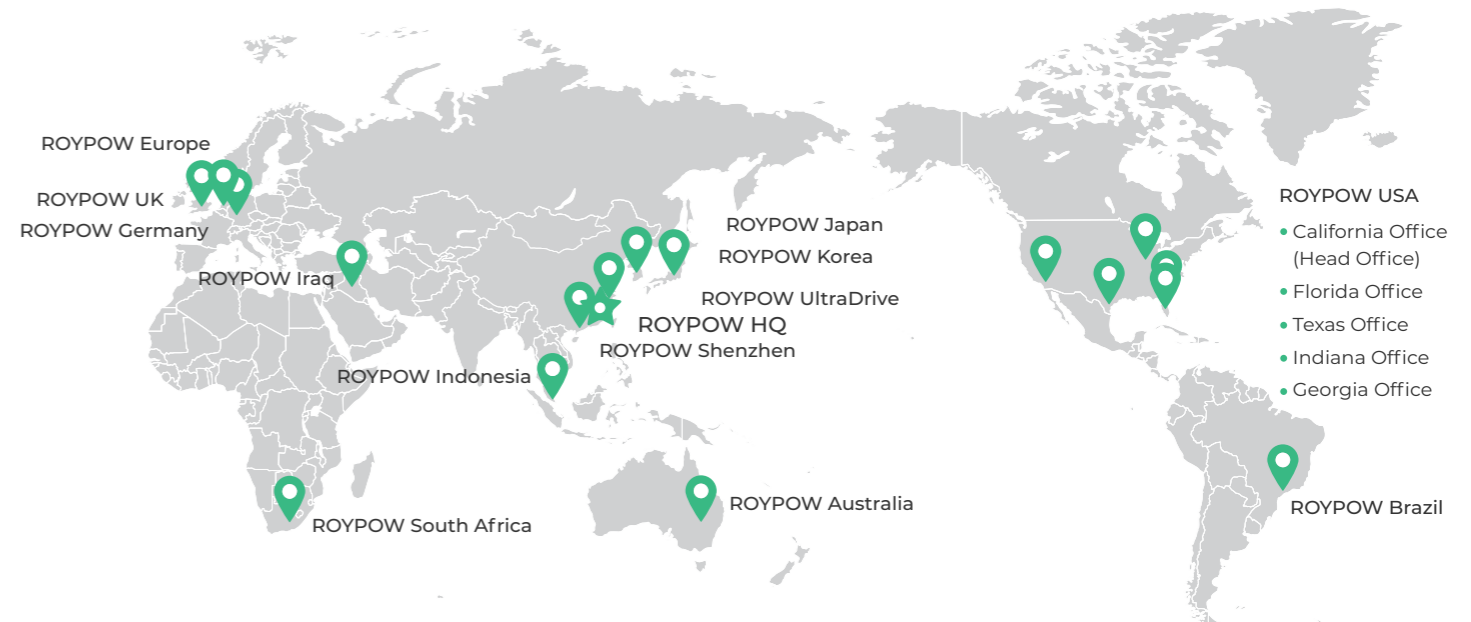
As a result of these investments, ROYPOW is capable of “end-to-end” integrated delivery, making our products out-perform the industry norms.

- 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.

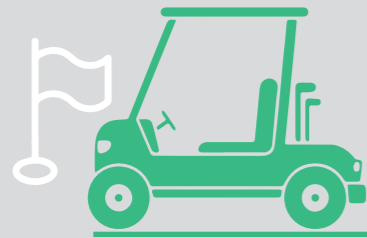
With years of dedication to new energy solutions, we are proud to offer customers professional solutions for:

- Complete Power Solutions for Off-Road Vehicles
- Marine Power System
- Jobsite ESS
- Vehicle-Mounted ESS
- Electric Retrofit Solutions
- Residential and C&I ESS



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

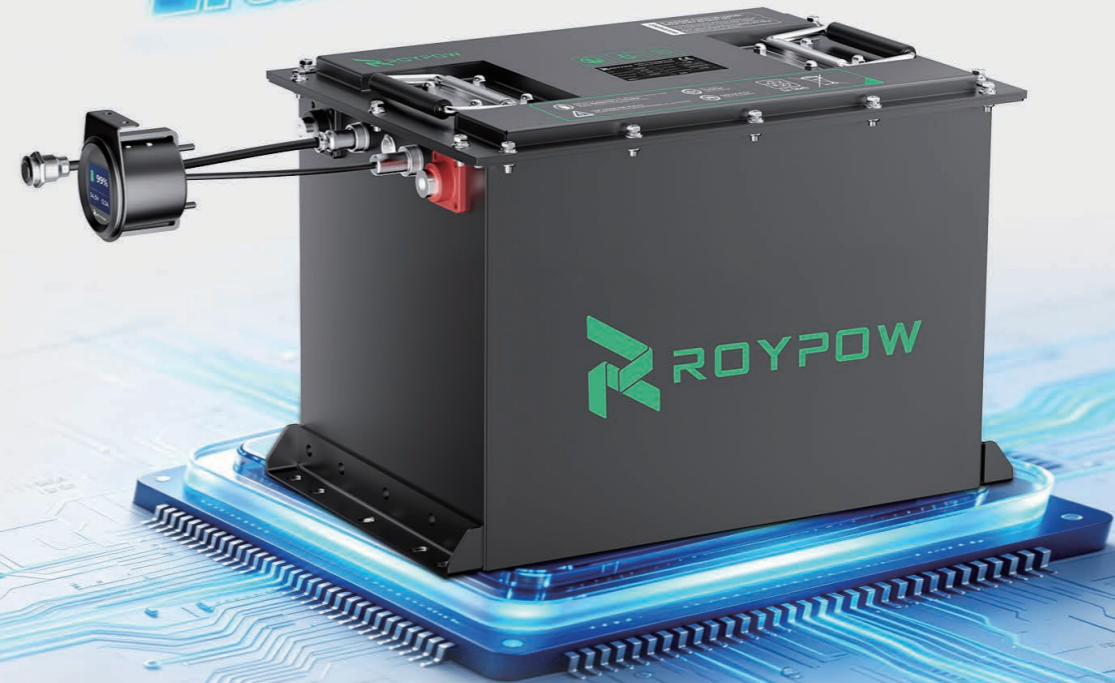


Go Further



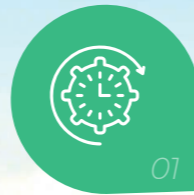
More Fun

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 ✓



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

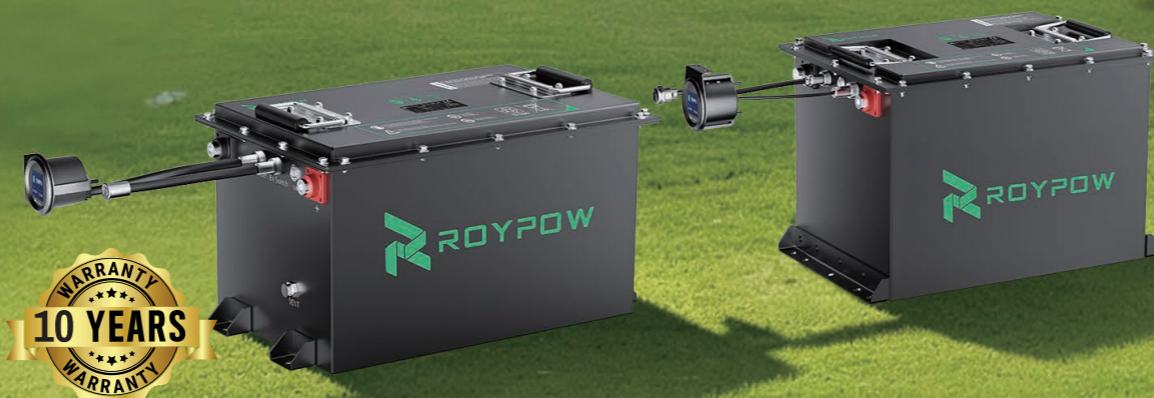
- Seamless enclosure and IP67 rated. No water or dust are getting in ✓
- More thermal & chemical stability and reduced risk of thermal runaway ✓
- Intelligent BMS for automatic cell balancing, advanced battery management, and multiple protections ✓



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

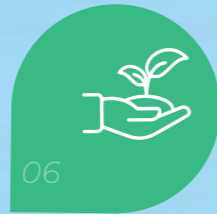
ⓘ ROYPOW batteries hold a charge from 4 to 8 months based on different products and weather conditions.



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.



10 Years of Full Replacement Warranty*

Extended warranty for greater peace of mind.

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

High Compatibility

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



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				
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

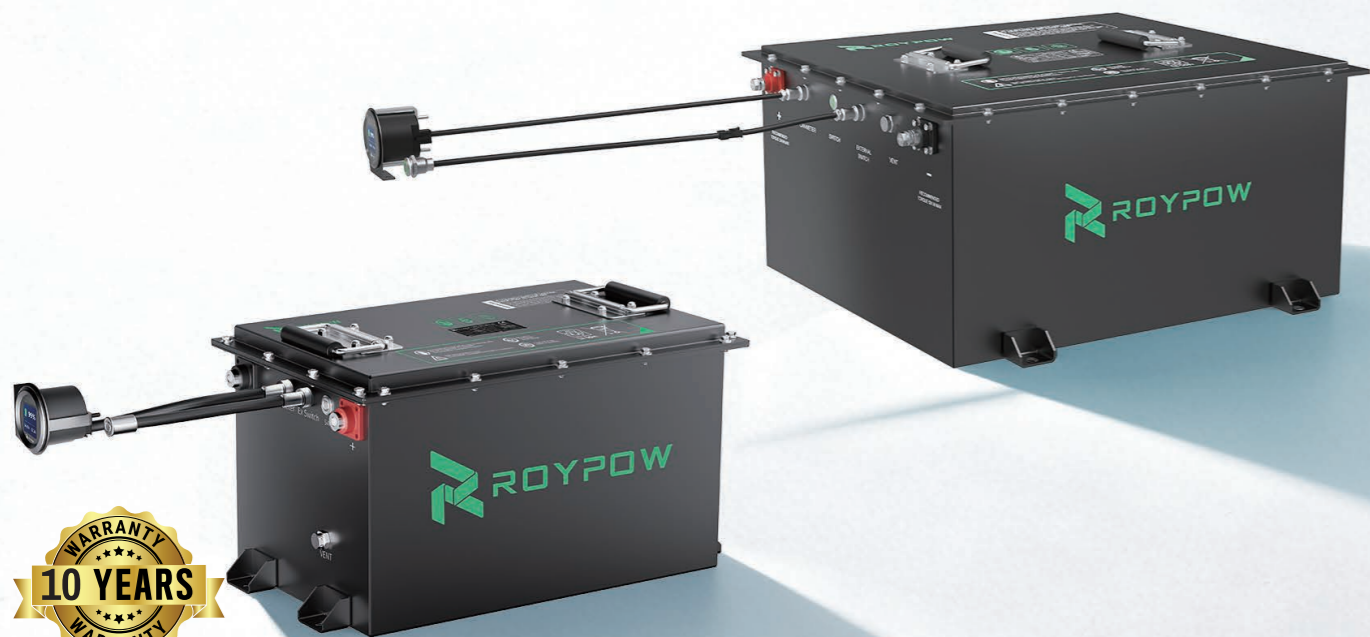
Over
4,000
Cycle Life

10 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-Z + S38100C 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.

10 Years
Design Life


>4,000
Cycle Life


✓ **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.

 **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.

Each high performance P series battery includes one Dynamic Brake Resistor (DBR). DBR absorb regen current to ensure safe driving down a hill on a fully charged battery.

Zero
Maintenance

Fast
Charge

Over
3,500
Cycle Life

10 YRS
Warranty

Integrated
Double Fuses

High
Discharge Current

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



Dynamic Brake Resistor (DBR)

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 Current	Max. Charge/Discharge Current	Mileage per Full Charge	Dimension (L x W x H)	Weight lbs. (kg)	Ingress Rating	
L Series											
S38100C	38.4 V	100 Ah	3.84 kWh	>4,000 Times	30 A / 100 A	40 A / 300 A	30-40 miles (48-64 km)	16.14 x 10.83 x 10.63 inch (410 x 275.1 x 270 mm)	101.4±6.6 lbs (46±3 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	
S51105L-Z	51.2 V	105 Ah	5.38 kWh	>4,000 Times	30 A / 130 A	40 A / 315 A	42-52 miles (67-83 km)	18.11 x 13.15 x 9.13 inch (460 x 334 x 232 mm)	94.8±6.6 lbs (43±3 kg)	IP67	
S51150A-A	51.2 V	150 Ah	7.68 kWh	>3,500 Times	30 A / 150 A	40 A / 350 A	60-70 miles (97-113 km)	31.50 x 14.19 x 8.58 inch (800 x 360.4 x 218 mm)	143.3 ± 6.6 lbs (65±3 kg)	IP67	
S51230L	51.2 V	230 Ah	11.78 kWh	>4,000 Times	30 A / 230 A	50 A / 345 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 / 300 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-AA	51.2 V	150 Ah	7.68 kWh	>3,500 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±6.6 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-AA	76.8 V	150 Ah	11.52 kWh	>3,500 Times	30 A / 160 A	50 A / 315 A	80-100 miles (130-180 km)	37.8 x 17.6 x 8.6 inch (960 x 446 x 217.5 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	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 Temperature Range		Short-term (Within One Month)		Long-term (Within One Year)	
		32 ~ 131°F (0 ~ 55°C)		-4 ~ 131°F (-20 ~ 55°C)				-4 ~ 113°F (-20 ~ 45°C)		32 ~ 95°F (0 ~ 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.



1200CG Series (Fan with Mesh Guard)



1200CG Series (With Handle)



2000A Series

Charger for Golf Carts / LSVs / UTVs

Charge Easier, Faster, and Safer.

ROYPOW LiFePO₄ batteries should be charged with the 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.
- Intelligent Protection**
Prevention against hot unplugging & plug-in, as well as arc discharge.
- IP65 Rating**
Protection against water, corrosion, dirt & mud.
- Zero Maintenance**
Built with high reliability and requires virtually no maintenance.

Technical Specifications



Model	Charger Model	Input Voltage (Vac)	Input Cable Length (mm / inch)	Max. Output Voltage (Vdc)	Max. Output Current(A)	Output Power (W)	Output Cable Length (mm)	Output Terminal	Ingress Rating	Dimension (L x W x H) (mm / inch)
S38100C	2000A3620L	85-264	3000 / 118.11	43.2	20	864	2800	M8 O-Type Terminal	IP65	282 × 167 × 73 mm (11.1 x 6.57 x 2.87 inch)
	2000A3625L	85-264	3000 / 118.11	43.6	25	1100	2800	Jnicon-m25-2P	IP65	282 × 167 × 73 mm (11.1 x 6.57 x 2.87 inch)
S5165L S51105L-Z S51150A-A S51200L-A S51230L	RGC5820	85-264	3000 / 118.11	58	20	1100	1300	M8 O-Type Terminal	IP65	282 × 167 × 87 mm (11.1 x 6.57 x 3.43 inch)
	2000A4820L	85-264	3000 / 118.11	58.4	20	1100	2800	Jnicon-m25/6PIN	IP65	282 × 167 × 87 mm (11.1 x 6.57 x 3.43 inch)
S51105P-N S51150P-A	1200CG4822L	85-264	3000 / 118.11	58.2	22	1200W@110V 1250W@220V	2800	Jnicon-m25/6PIN	IP65	258 × 159.5 × 88.5 mm (10.16 x 6.28 x 3.48 inch)
	RGC8715	85-264	3000 / 118.11	87.6	15	1100	2800	M8 O-Type Terminal	IP65	282 × 167 × 86.5 mm (11.1 x 6.57 x 3.41 inch)
S72100P-B S72150P-A S72200P-A	2000A7218L	85-264	3000 / 118.11	87.6	18	1100	2800	M8 O-Type Terminal	IP65	282 × 167 × 86.5 mm (11.1 x 6.57 x 3.41 inch)
	1200CG7218L	85-264	3000 / 118.11	87.6	18	1200W@110V 1500W@220V	2800	Jnicon-m25-2P	IP65	258 × 159.5 × 88.5 mm (10.16 x 6.28 x 3.48 inch)

Note: 1. Only authorized personnel are allowed to operate or make adjustments to the chargers.
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.

