

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: September 01, 2026, LiFePO<sub>4</sub> Batteries for Golf Carts / LSVs / UTVs



#### ROYPOW Technology Co., Ltd.

Tel: +86 (0)752-327 9099

Email: [sales@roypow.com](mailto:sales@roypow.com)  
[service@roypow.com](mailto:service@roypow.com)  
[marketing@roypow.com](mailto:marketing@roypow.com)

Web: [www.roypow.com](http://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](mailto:sales@roypowusa.com)  
[service@roypowusa.com](mailto:service@roypowusa.com)

Web: [www.roypow.com](http://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 PI NW Ste A, Kennesaw, GA 30152, USA

#### ROYPOW Technology UK Limited

Tel: 079 3818 1019 / 07425566908

Email: [sales.uk@roypow.com](mailto:sales.uk@roypow.com)

Add: Unit F, Argent Court, Hook Rise South, Surbiton, Surrey KT6 7NL

#### ROYPOW Australia Technology Pty Ltd

Email: [sales@roypowtech.com.au](mailto:sales@roypowtech.com.au)

Tel: +61 2 9873 3920

Web: <https://www.roypow.com/>

Add: Unit 9/148 James Ruse Dr, Parramatta 2150, NSW, Australia

#### ROYPOW (Europe) Technology B.V.

Email: [sales.eu@roypow.com](mailto:sales.eu@roypow.com)

Tel: +31 702 001 114

Web: [www.roypoweurope.com](http://www.roypoweurope.com)

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

#### ROYPOW Technology GmbH

Tel: +49 (0) 6151 1546262

Email: [sales.de@roypow.com](mailto:sales.de@roypow.com)

Web: [www.roypow.gmbh](http://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](mailto:sales.jp@roypow.com)

Web: [www.roypow.co.jp](http://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](mailto:sales.kr@roypow.com)

Add: 2305, 2306 GIDC Gwangmyeong Station A Dong, 43 Iljik-ro, Gwangmyeong-si, Gyeonggi-do, Korea

#### 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



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

The Global Leader  
in Lithium Golf Cart Batteries



✉ [sales@roypow.com](mailto:sales@roypow.com)  
🌐 [www.roypow.com](http://www.roypow.com)



*ROYPOW,  
Your Trusted Partner*

## Contents

Introduction of LiFePO<sub>4</sub> Golf Carts / LSVs / UTVs Batteries

Advantages of LiFePO<sub>4</sub> Golf Carts / LSVs / UTVs Batteries

Choose the Best LiFePO<sub>4</sub> 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  
**402** 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

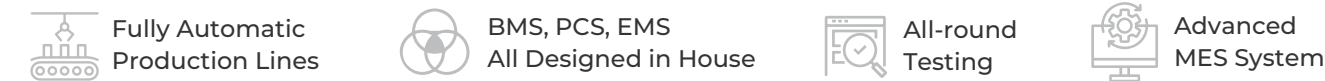


### Product Certifications:

|                                                            |  |  |                                           |
|------------------------------------------------------------|--|--|-------------------------------------------|
| UL 1973, UL 9540A, UL 9540, UL 2580, UL 2271, UL 1741      |  |  | 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



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.

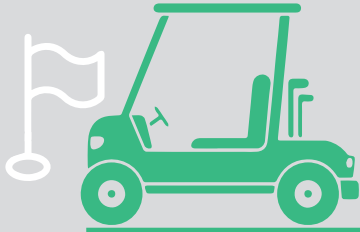
With years of dedication to new energy solutions, we are proud to offer customers professional solutions for:

- Complete Power Solutions for Off-Road Vehicles
- Marine Power System
- Jobsite ESS
- Vehicle-Mounted ESS
- Electric Retrofit Solutions



# 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

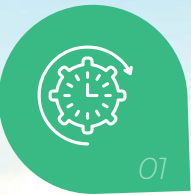


### Efficient and Powerful

- ✓ 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



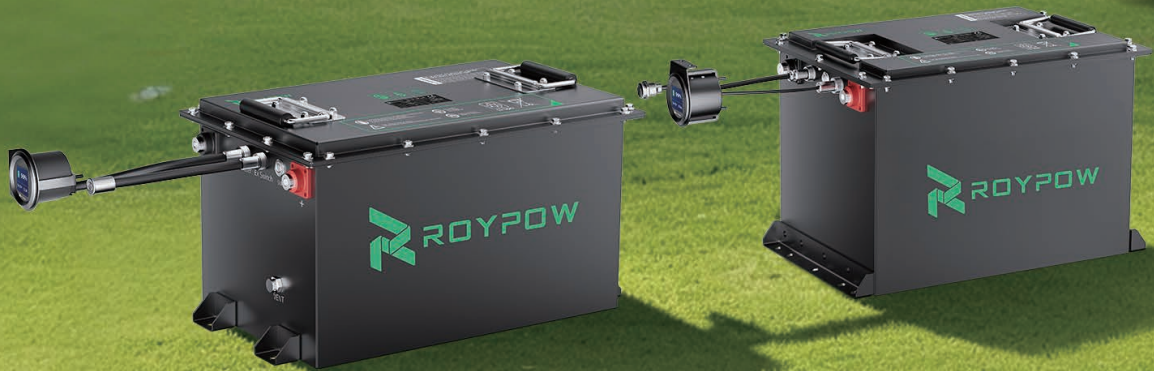
### Zero Maintenance

- ✓ 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.



**Limited Lifetime Warranty**  
Extended warranty for greater peace of mind.

*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>3</b> years                               |
| <b>4,000</b> times                       | <b>&lt; 500</b> times                        |
| Maintenance- <b>free</b>                 | Regular maintenance <b>required</b>          |
| *About <b>2.5</b> hours, charge any time | About <b>8 to 10</b> hours, charge after use |
| <b>Multiple built-in</b> protections     | Potential <b>acid spills</b>                 |
| <b>Eco-friendly</b>                      | <b>Harmful lead</b>                          |

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

| Expenditures over <b>5</b> years | ROYPOW LiFePO <sub>4</sub> 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

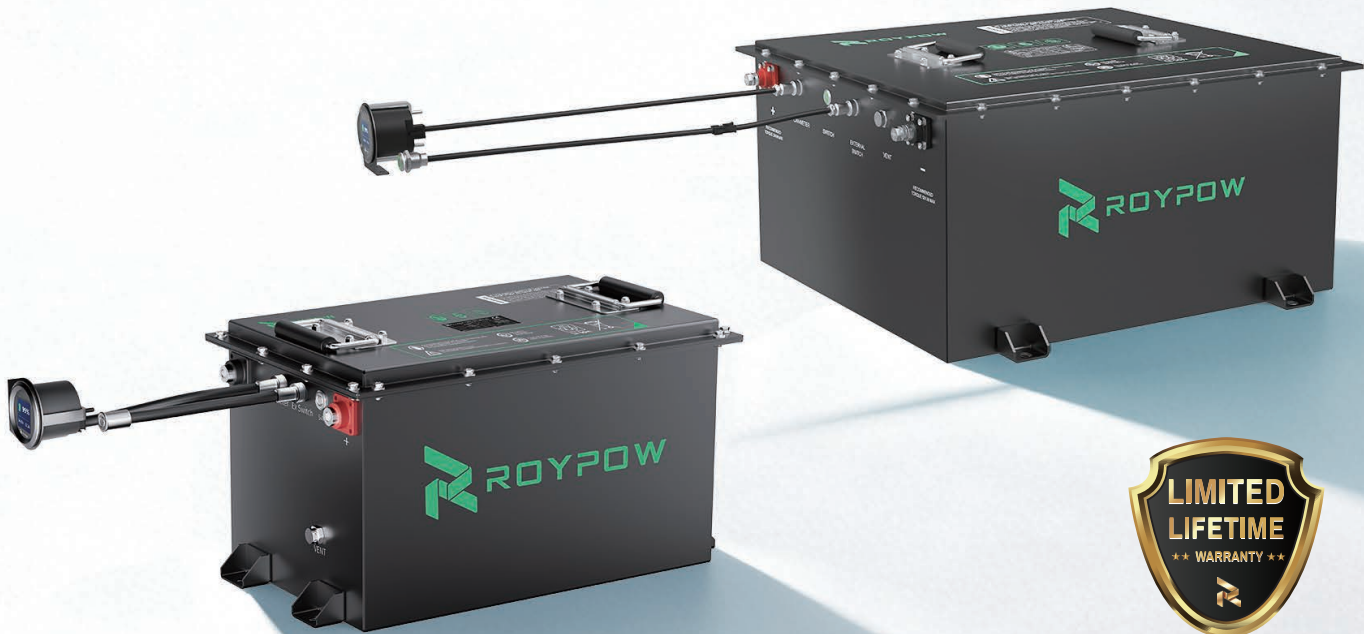
Limited Lifetime  
Warranty

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

# S51105L-Z + S38100C New

Industry's first lithium golf cart battery with CTP design

IP67  
Ingress Rating

>1 Year Storage  
When Fully Charged

Limited  
Lifetime  
Warranty

>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.

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

**Limited Lifetime**  
Warranty

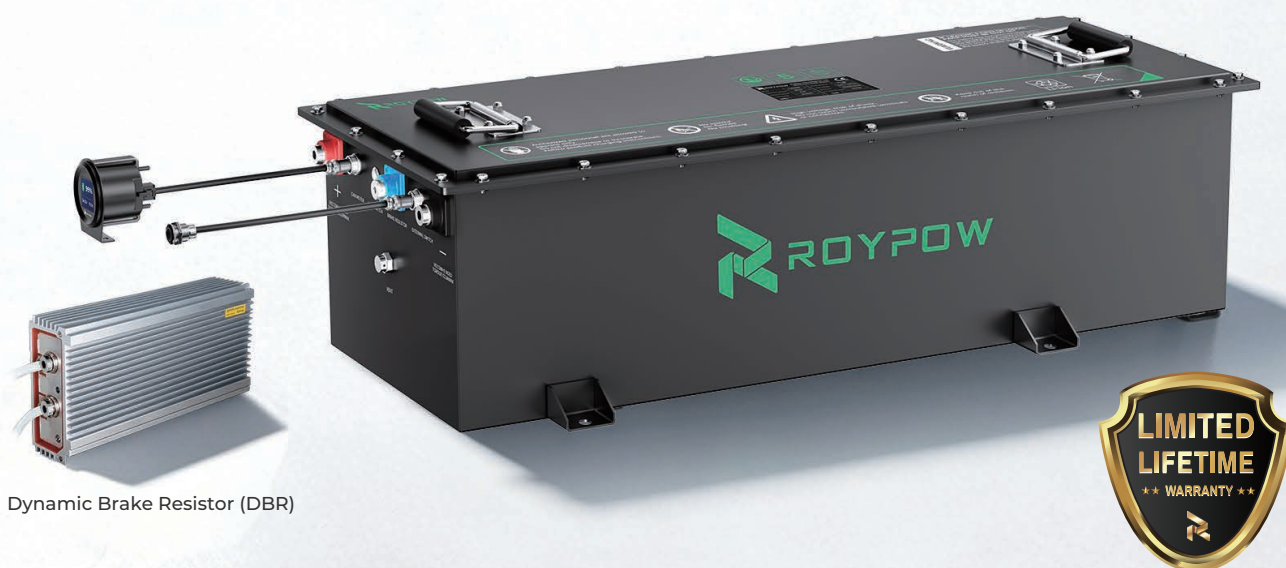
Over  
**3,500**  
Cycle Life

**Fast**  
Charge

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 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<br>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<br>(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<br>(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<br>800 x 360.4 x218 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<br>(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<br>(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<br>(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<br>(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<br>(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<br>(1137.6 x 410 x 267 mm) | 275.57±22 lbs (125±10 kg)    | IP67                                              |
| Working Temperature Range |                 | Charge 32 ~ 131°F ( 0 ~ 55°C) |                | Discharge -4 ~131°F ( -20 ~ 55°C) |                                     | Storage Temperature Range     |                            | Short-term (Within One Month) -4 ~ 113°F (-20 ~ 45°C) |                              | Long-term (Within One Year) 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 LiFePO<sub>4</sub> 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<br>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<br>11.1 x 6.57 x 2.87 inch      |
| S5165L<br>S51105L-Z<br>S51150A-A<br>S51200L-A<br>S51230L<br>S51105P-N<br>S51150P-A | RGC5820       | 85-264              | 3000 / 118.11                  | 58                        | 20                     | 1100                     | 1300                     | M8 O-Type Terminal | IP65           | 282 × 167 × 87 mm<br>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<br>11.1 x 6.57 x 3.43 inch      |
|                                                                                    | 1200CG4822L   | 85-264              | 3000 / 118.11                  | 58.2                      | 22                     | 1200W@110V<br>1250W@220V | 2800                     | Jnicon-m25/6PIN    | IP65           | 258 × 159.5 × 88.5 mm<br>10.16 x 6.28 x 3.48 inch |
| S72100P-B<br>S72150P-A<br>S72200P-A                                                | RGC8715       | 85-264              | 3000 / 118.11                  | 87.6                      | 15                     | 1100                     | 2800                     | M8 O-Type Terminal | IP65           | 282 × 167 × 86.5 mm<br>11.1 x 6.57 x 3.41 inch    |
|                                                                                    | 2000A7218L    | 85-264              | 3000 / 118.11                  | 87.6                      | 18                     | 1100                     | 2800                     | M8 O-Type Terminal | IP65           | 282 × 167 × 86.5 mm<br>11.1 x 6.57 x 3.41 inch    |
|                                                                                    | 1200CG7218L   | 85-264              | 3000 / 118.11                  | 87.6                      | 18                     | 1200W@110V<br>1500W@220V | 2800                     | Jnicon-m25-2P      | IP65           | 258 × 159.5 × 88.5 mm<br>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.

