ROYPOW

# Starter & Deep Cycle
## 2-In-1 Lithium Batteries

**1** ROYPOW Battery Replaces **4** Lead Acid


**12**V **314** Ah

**350%** Power ✱ | **2-4X** Overall Service Life ✱ | **70%** Lighter Weight ✱ | Built-in **Fire Extinguishing** System

**2500** Amps CA | **>3,500** Times Cycle Life | **-40°F** Working Environment | Support **OTA** Upgrades

✱ Compared to lead-acid and AGM batteries

### Dual-Purpose Powerhouse

- Deliver high instantaneous cranking current for engine starts
- Support cabin power loads while parked to eliminate idling

### Built Tough for the Heavy-Duty Trucking

- Vibration-resistant design withstands driving on bumpy roads
- Advanced cell balancing technology for cell consistency and extended battery lifespan

### Extreme Weather Proof

- Stable performance across a wide temperature range from -40℃ to 60℃
- Built-in heating module automatically warms up the battery in extremely cold conditions

### Effortless to Use

- Power-saving mode for long-time parking and easy to restart
- Designed for drop-in replacement of lead-acid batteries and easy installation

### Designed for the Long Haul

- Fast charging minimizes downtime, making it ideal for high energy demands
- A single full charge provides uninterrupted power throughout the night

### Intelligent Management

- Advanced BMS supports optimized performance and efficiency as well as software upgrades
- Bluetooth function enables remote battery status monitoring in real time on mobile

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## Technical Specifications

| Model | SAT12314A |
|---|---|
| Nominal Voltage | 12.8 V |
| Nominal Capacity | 314 Ah |
| Stored Energy | 4.02 kWh |
| Chemistry | $LiFePO_4$ |
| Cycle Life | 3,500 Times |
| Continuous Charge Current | 100 A |
| Maximum Charge Current | 150 A |
| Continuous Discharge Current | 150 A |
| Cranking Amps | 2500 A |

## General Specifications

| | |
|---|---|
| Battery Heating | Built-in Heater |
| Bluetooth | Support |
| Dimensions (L x W x H) | 20.54 x 9.4 x 8.89 inch (521.8 x 238.8 x 225.8 mm) |
| Weight | 66±4.4 lbs. (30±2 kg) |
| Working Temperature Range | -40°F ~ 140°F (-40°C ~ 60°C) |
| Terminal | M8 (Pure Copper) |
| IP Rating | IP67 |

Note: All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions