



# RAJA NEW ENERGY

Enjoy a secure & comfortable journey.

10<sup>+</sup>

10+ years of experience  
Electric Truck and EV  
batteries manufacturer.



30<sup>+</sup>

Strategic partner with China  
Tower, China Communication  
Construction.

OEM battery provider to  
34 RV brands in China.



## About Us

Founded in 2014, ISO9001 approved, China's first qualified Electric Vehicle manufacturer, holding 260 professional qualifications and over 460 patents since established. Owing 3 major core technologies, self-developed Management Systems BMS, MCU, and VCU. The technologies have been widely applied in RAJA's products like Electric Trucks, Sanitation Vehicles, EV Battery systems, Energy Storage Batteries, Residential Energy Storage Batteries and more.

Lithium Battery Packing process complies with the same stringent standards of EV Batteries, each product has undergone rigid tests like impacting, squeezing, fire, seawater immersion, as well as full inspection before shipment.

As of today, RAJA's large battery systems have been installed on over 60% tunnel tractor in China, RAJA forged the strategic partnership with listed companies or state-owned enterprises like China Tower, SF-Express, China Communication Construction.

RAJA's new energy business covers a full range of battery systems for 2/3 wheelers, logistics EVs, Sanitation EVs, EV Battery, RV Battery, Telecom Base Station Battery, Residential Energy Storage Battery, Overall Solution for Home Energy Storage, Commercial&Industrial Energy Storage. RAJA aims to provide one-stop OEM/ODM service to partners worldwide.

# RV Battery Specifications

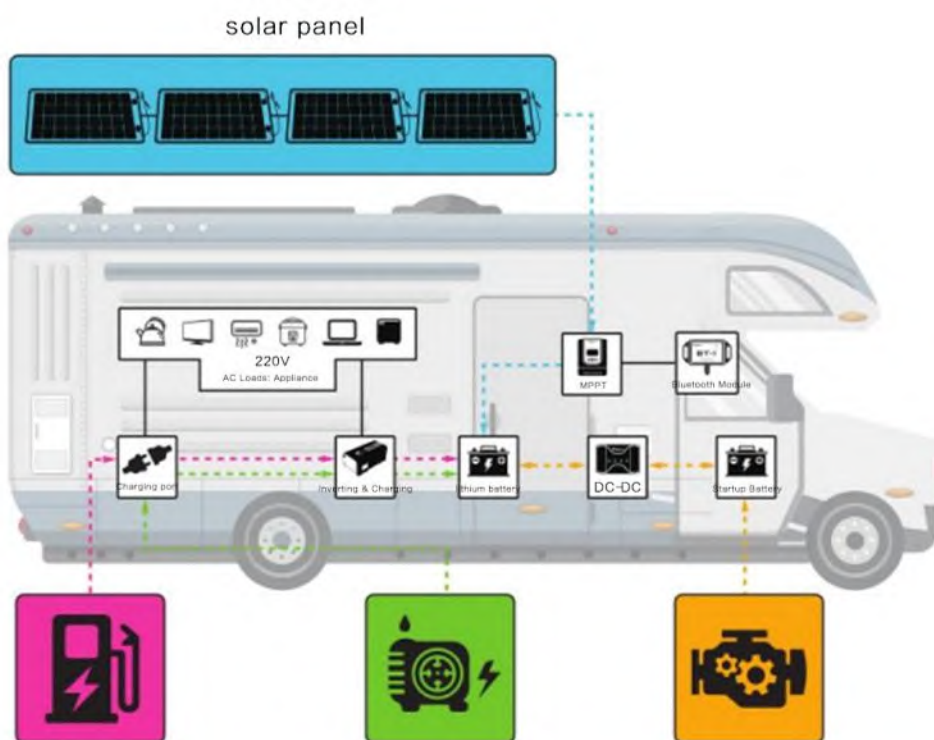


| Specification           | 12230       | 12460       | 12608       | 12840       | 24230       | 48105       | 48304       |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Nominal voltage         | 12.8        |             |             |             | 25.6        | 51.2        |             |
| Nominal capacity        | 230         | 460         | 608         | 840         | 230         | 105         | 304         |
| Operating voltage range | 10~14.6     |             |             |             | 20~29.2     | 40~58.4     |             |
| Nominal energy          | 2.944       | 5.888       | 7.7824      | 10.752      | 5.888       | 5.376       | 15.5648     |
| Rated charging current  | 75          | 100         | 100         | 125         | 75          | 50          | 75          |
| Rated discharge current | 150         | 200         | 200         | 250         | 150         | 100         | 150         |
| Rated discharge power   | 1.92        | 2.56        | 2.56        | 3.2         | 3.84        | 4.096       | 7.68        |
| Size (battery box)      | 314*184*254 | 526*190*293 | 365*356*254 | 545*356*254 | 488*180*261 | 382*277*252 | 592*423*282 |

## Power Battery–Level Standard: Safe, Stable, and Long–Lasting Power Supply

Do you ever think about the daily power consumption of the appliance in your RV? The convenience and comfort that are brought by household appliances like Refrigerator, TV, AC, Washing machine, Electric Cooker, Microwave Stove, can also be available on a recreational vehicle, and the energy consumption of them is around 10kWh per day!

RAJA's RV battery systems can store energy as much as you need for your appliances on your RV. They can be your ultimate energy pack in your RV journey, RAJA's RV battery can be charged with the car engine, PV, grid power, or charging piles!



As a leading manufacturer of logistics EVs in China, RAJA New Energy has mastered the core three–electricity technology and has independently developed the BMS management system. With the power battery–level standard, we produce RV batteries that are safe, durable, and intelligent. Currently, we have provided reliable RV battery products to more than 30 domestic RV brands and after–market modification markets.



## Safe and Reliable:

### High-Quality A+ Grade Lithium Iron Phosphate Battery Cell:

We use A+ grade power battery cell with a high cycle life of up to 3000 times (8-10 years). After 2000 cycles, the battery capacity still exceeds 80%, and after 3000 cycles, it still exceeds 70%. Once installed in a motorhome, it can be used for a lifetime.

### Vehicle-Standard PACK Technology:

We strictly follow the production standards for automotive power batteries. The battery cell uses laser welding technology to ensure that each battery is welded according to uniform standards without virtual welding or leakage. The battery box is coated with electrophoretic paint and electrostatic spray technology, ensuring that the battery product is precise, tight, and neat.

### 100% Full Inspection and Rigorous Testing Conditions:

We conduct a 100% full inspection before shipment and perform rigorous testing including drop, compression, collision, high and low-temperature, fire, puncture, seawater immersion, and other strict tests to ensure that our products are 100% safe and reliable.

## Long-lasting and Durable:

### Full Capacity, Never Overstated:

RAJA New Energy has been committed to providing green and clean power sources for the new energy industry and creating a zero-carbon environment by deeply cultivating pure electric trucks for over 10 years. We insist on full capacity and never overstate it, and the actual battery capacity is 100% consistent with the marked capacity.

### Powerful Environmental Adaptability:

RAJA motorhome power supply follows the standard for vehicle-grade batteries and has passed rigorous testing in real-world environments, such as high and low-temperature shock of  $-20^{\circ}\text{C}$ - $50^{\circ}\text{C}$ , high altitude, seawater immersion, and other challenging conditions, making it suitable for use in motorhomes in complex environments like high altitude and coastal regions.

### 8-10 Year Super Long Service Life:

The power supply has a cycle life of over 3000 times, which is 1.5 times longer than that of other lithium batteries.



Vibration Test



Drop Test



Seawater Immersion Test



Fire Test



Flip Test



Crash Test



Compression Test



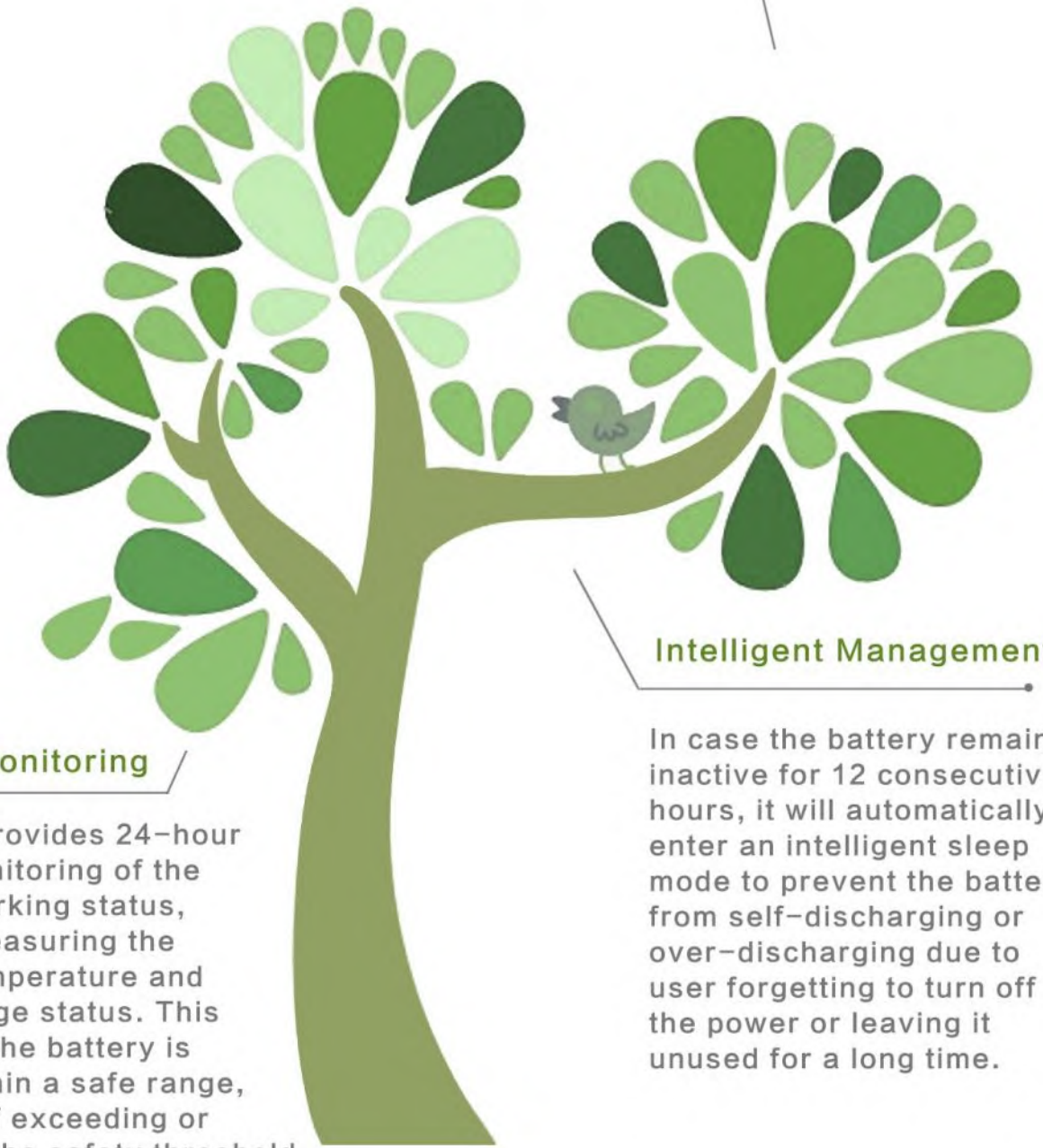
Charge & Discharge Test

# Intelligent Management:

RAJA independently developed a BMS battery management system.

## Intelligent Sleep Mode

The system intelligently manages each module of the battery, ensuring that each battery cell is always in the best condition and proactively balances the energy storage capacity between each cell to maintain consistency between tens of thousands of cells. This improves the overall performance and service life of the battery.



## Intelligent Monitoring

The system provides 24-hour real-time monitoring of the battery's working status, accurately measuring the battery's temperature and working voltage status. This ensures that the battery is operating within a safe range, and in case of exceeding or falling below the safety threshold, the system will provide timely alarms or disconnects.

## Intelligent Management

In case the battery remains inactive for 12 consecutive hours, it will automatically enter an intelligent sleep mode to prevent the battery from self-discharging or over-discharging due to user forgetting to turn off the power or leaving it unused for a long time.



Overvoltage Protection



Undervoltage Protection



Over-Temperature Protection



Over-Current Protection



Short-Circuit Protection



Waterproof and Explosion-Proof

# Honor and Qualification



Certificate of Conformity of Integrated Management System for Informatization and Industrialization



Certificate of Knowledge Product Management System Certification



Certificate of Standardization of Safety Production Certification



ISO 9001 Certification.



ISO 45001 Certification



ISO 14001 Certification



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