

Since its establishment in 2014, Shenzhen Improve Battery Co., Ltd has been dedicated to the research, development, production, and export of LiFePO4 batteries. We have established multiple modern production lines capable of manufacturing Residential LV Batteries, Residential HV Batteries, Low-Speed Vehicle Batteries, and Lead-Acid Replacement Batteries. Our products are widely used in residential energy storage, Rvs energy storage, low-speed vehicles, and other fields, with customers spanning over 50 countries and regions worldwide. We have earned high praise and trust from our clients.

Any needs about Lithium battery?
Please visit www.improvecn.com/contact and fill out the form below.



We will give you

- Email Technical Manual
- Make a quotation
- Book a business meeting
- Book a Factory Tour

Shenzhen Improve Battery Co.,Ltd

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CARAVAN RV CAMPING

LITHIUM BATTERY



Shenzhen Improve Battery Co.,Ltd.
Dongguan Improve Battery Co.,Ltd.

IMPROVE BATTERY

Shenzhen IMPROVE BATTERY Co., Ltd. was established in 2014 and is located in Shenzhen. We specialize in the research, development, production, and export of LiFePO4 lithium batteries. Our products are widely used in energy storage, Caravan, golf carts, and other fields. We operate a factory in Dongguan with a monthly production capacity of over 15,000 batteries and has strong OEM/ODM project capabilities.

IMPROVE is committed to the development of green energy, providing safe and reliable new energy solutions, with the goal of becoming a global leader in the lithium battery industry.

1200+ Global Customers

5500m² Factory Area

50+ Lithium Battery Product Ranges

130+ Customized Model

Quality Control Certificates

IMPROVE has obtained a number of third-party authoritative qualification certifications according to the qualification.

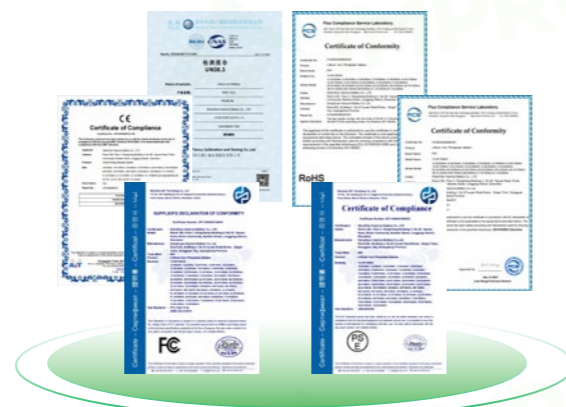
- ISO 9001:2015 (Quality Management System)
- ISO 14001:2015 (Environmental Management System)
- ISO 45001:2018 (Occupational Health and Safety Management System)



Product Certifications

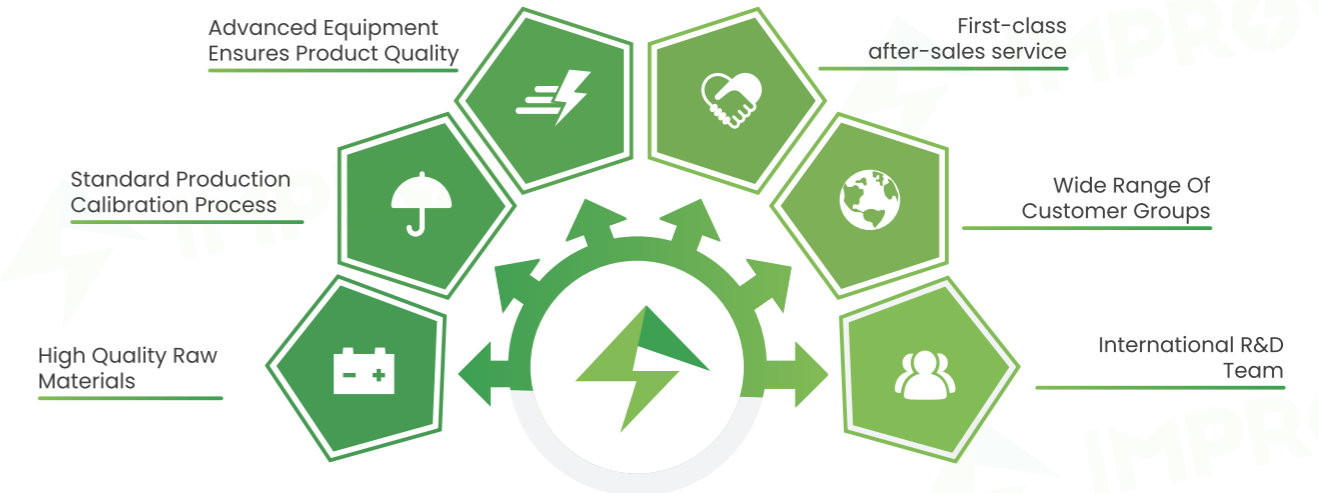
- CE EN 61000-6-1, ENIEC 61000-6-3
- PS E J55032(H29)
- FC FCC Part 15 B, ANSI C63.4:2014
- RoHS RoHS 2.0 Directive (EU) 2015/863 & (EU)2017/2102
- TRANSPORT UN38.3 MSDS
- UL CELL UL Certified

Ensure solid product quality and smooth import & export.



Get a fresh upgrade with our solutions

We are always committed to the innovation and exploration of new energy solutions. With years of experience, we provide customers with professional and precise customized services to meet diverse needs.



We are honored to provide customers with the following professional solutions:

- **Low-Speed Vehicle Batteries** including golf carts, sightseeing cars, UTVs and etc.
- **Household Energy Storage System** including home storage, off-grid energy storage and etc.
- **Caravan Energy Storage Batteries** including RV storage, off-grid energy storage and etc.
- **Industrial Batteries** including forklift, floor cleaning /sweeping machines and etc.
- **LiFePO4 Battery (Lead-acid Replacement)** including replacement of various lead-acid batteries.



Redefining RV Energy Freedom

Don't worry about power shortages, Don't worry about temporarily interrupting your trip.

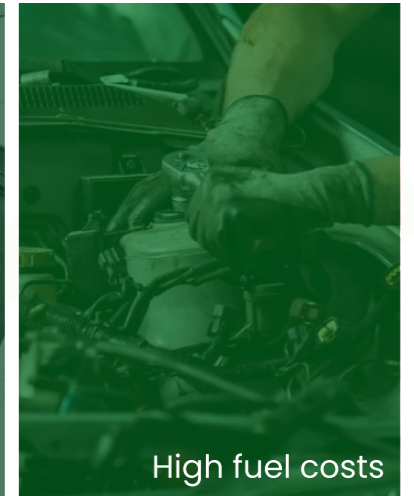


Drawbacks

of Traditional
Energy Storage Solutions



High
maintenance cost



High fuel costs



Engine idling



Pollution / noise

LiFePO4

Safe Chemistry

Reject

Fume, Noise and Emission

Zero

Maintenance

IDEAL

Energy Storage
System for RVs

8000+

LiFe Cycles

Five

Charging Sources

12/24/48V

Support Customized

Upgrade Your RV/Van Power

Adventure Without Limits, Power Without Compromise

This system isn't just about energy—it's about empowering you to live life on your terms. Whether it's a weekend escape or a months-long expedition, experience the freedom to extend your adventures, wherever the road takes you.



Smart Connectivity

Seamless connection with inverter brands



CAN/RS485

dual-mode com protocol.

Screen Selection Protocol.



7 layer Safety Protection System

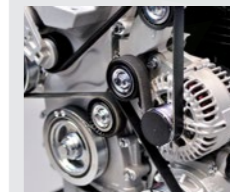
Military-Grade Security



- ① Over-charge protection
- ② Over-discharge protection
- ③ Over-current protection
- ④ High temperature protection
- ⑤ Low temperature protection
- ⑥ Short circuit protection
- ⑦ Balance function

4 Way to Charge

More Versatility & Flexibility



① Alternator



② Shore Power



③ Solar Panel



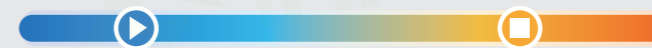
④ Diesel Generator

Intelligent Heating

Charging intelligent heating technology

<32°F (0°C)

>41°F (5°C)



Self-heating starts

Self-heating stops and the battery is charged normally

Ultra-Fast charging



3 hrs

Super Long Battery Life

No need to worry about battery life and temperature

>8000

Cycles(80%DOD),at 25°C

-20°C~60°C

Wide Temperature Range Operation

Smart Communication With Victron Energy



Opening up a new era of efficient energy management, providing all-weather energy support for your RV life.



IMP-RV12 Series Support Communication:



IMP-RV24/48 Series Support Communication:



Empower Your Journey, Wherever Adventure Leads.

With IMPROVE RV BATTERY, experience uninterrupted power for your caravan, even under the most demanding conditions. From scorching deserts to freezing peaks, our batteries deliver unmatched reliability, so you can focus on the road ahead—not the power behind.



100W
Projector
81.9Hrs



800W
Air Conditioner
10.2Hrs



1300W
Pellet Grill
6.3Hrs



80W
Mini Fridge
102.4Hrs



1000W
Coffee Machine
8.1Hrs



800W
Electric stove
10.2Hrs



400W
Microwave
20.4Hrs



210W
Washing Machine
39.1Hrs

The above data uses IMP-RV24-320 as an example.

Traveler Series

Explore Boundless Beauty with IMPROVE LiFePO4 Batteries

Engineered with military-grade durability to brave extreme environments, and powered by reliable energy to safeguard every journey.

Immerse yourself in nature's wonders, free from power concerns, and embrace every moment of freedom.



Zero

Maintenance

4 Pcs

In Parallel or Series Max.

8000⁺

Cycle Life

Self⁺

Heating

High

Discharge Current

5.0

Bluetooth

Technical Specifications



Model	IMP-RV12-320
Nominal Voltage	12.8V
Nominal Capacity	320Ah
Nominal Energy	4.09kWh
Com Mode	CAN
Life Cycles	8000 Cycles(80%DOD),at 25°C
Charge Voltage	14.6V
Discharge Cut-off Voltage	10.4V
Max. Current	Charge / Discharge: 250A
Peak Discharging Current	300A 30s
Operating Temperature	Charge 0°C ~ 55°C / Discharge -20°C ~ 60°C
Storage Temperature	-10°C ~ 45°C
Max. Num of Connect	4 Pcs in Series or 4 Pcs in Parallel (In communication only 2 Pcs in Series)
Dimensions	360*310*160mm 14.17*12.20*6.29inch
Weight	32kg / 70.5lb

Note:

1. All data is based on IMPROVE standard test procedures. Actual performance may vary due to local conditions.
2. The table above only lists some of the more common options. For specific requirements, please consult with our engineers or sales team.



Expedition Series

Conquer Every Terrain with IMPROVE LiFePO4 Batteries

Energy upgraded, freeing you from power worries and allowing you to enjoy boundless moments.

Fully compatible with VICTOR and over ten other inverters, offering strong compatibility and more convenient use.



Zero

Maintenance

8.19kWh

Energy upgrade

8000+

Cycle Life

Self

Heating

16Pcs

In Parallel Max.

5.0

Blueooth



Technical Specifications



Model	IMP-RV24-320
Nominal Voltage	25.6V
Nominal Capacity	320Ah
Nominal Energy	8.19kWh
Com Mode	CAN / RS485
Life Cycles	8000 Cycles(80%DOD),at 25°C
Charge Voltage	29.2V
Discharge Cut-off Voltage	20.8V
Max. Current	Charge / Discharge: 220A
Peak Discharging Current	300A 10s
Operating Temperature	Charge 0°C ~ 55°C / Discharge -20°C ~ 60°C
Storage Temperature	-10°C ~ 45°C
Max. Num of Parallel	16 Pcs
IP Protection	IP54
Dimensions	360*430*235mm 14.17*16.92*9.25inch
Weight	58kg / 127.8lb

Note:

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2. The table above only lists some of the more common options. For specific requirements, please consult with our engineers or sales team.

Mobile Fortress Series

Create Timeless Memories with IMPROVE LiFePO4 Batteries

Bring your family closer to nature, with energy that's as dependable as your sense of adventure.

The stacked structure design breaks through space limitations and brings you unprecedented energy density.



Zero
Maintenance

5kWh
Energy upgrade

6000+
Cycle Life

Self⁺
Heating

16Pcs
In Parallel Max.

Stacking
Free Combination



Technical Specifications



Model	IMP-RV48-100
Nominal Voltage	51.2V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Com Mode	CAN / RS485 / RS232
Life Cycles	6000 Cycles(80%DOD),at 25°C
Charge Voltage	58.4V
Discharge Cut-off Voltage	43V
Max. Current	Charge / Discharge: 100A
Peak Discharging Current	150A ≤1s
Operating Temperature	Charge 0°C ~ 55°C / Discharge -20°C ~ 60°C
Storage Temperature	-10°C ~ 45°C
Max. Num of Parallel	16 Pcs
Dimensions	19-inch 3U/4U chassis
Weight	47kg / 103.6lb

Note:

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2. The table above only lists some of the more common options. For specific requirements, please consult with our engineers or sales team.



5kWh

10kWh

15kWh

Mobile Fortress Series

Create Timeless Memories with IMPROVE LiFePO4 Batteries

Bring your family closer to nature, with energy that's as dependable as your sense of adventure.

The stacked structure design breaks through space limitations and brings you unprecedented energy density.



Zero
Maintenance

10kWh
Energy upgrade

6000+
Cycle Life

Self
Heating

16Pcs
In Parallel Max.

Stacking
Free Combination



Technical Specifications



Model	IMP-RV48-200
Nominal Voltage	51.2V
Nominal Capacity	200Ah
Nominal Energy	10.24kWh
Com Mode	CAN / RS485 / RS232
Life Cycles	6000 Cycles(80%DOD),at 25°C
Charge Voltage	58.4V
Discharge Cut-off Voltage	43V
Max. Current	Charge / Discharge:200A
Peak Discharging Current	240A ≤1s
Operating Temperature	Charge 0°C ~ 55°C / Discharge -20°C ~ 60°C
Storage Temperature	-10°C ~ 45°C
Max. Num of Parallel	16 Pcs
Dimensions	19-inch 3.5U/4U chassis
Weight	75kg / 165.3lb

Note:

1. All data is based on IMPROVE standard test procedures. Actual performance may vary due to local conditions.
2. The table above only lists some of the more common options. For specific requirements, please consult with our engineers or sales team.



10kWh

20kWh

30kWh