



MITLESS JOURNEYS AHEAD



RELi³ON[®]

HIGH POWER ENERGY TO EXPLORE

When your journey involves countless miles or remote campsites, you need a trustworthy battery that won't hold you back. Lightweight RELiON lithium iron phosphate (LiFePO4) batteries are maintenance-free, fast-charging and environmentally friendly to provide reliable power and peace of mind while you enjoy some well-earned peace and quiet.

LEIGH & BRIAN

WHY THEY MADE THE SWITCH TO LITHIUM

"We were draining our 6V lead-acid wet cell batteries down too quickly. Lead acid batteries are only supposed to be drained down to 50%, but we were finding that, especially in the winter time, we were draining our old batteries far past that, which damaged the batteries. We just didn't have enough power or storage capacity. After ten years of living in our trailer, we wanted to live a more comfortable, normal life and use some real appliances, like a toaster, a blender and an espresso machine."



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Li³

LITHIUM

ADVANTAGES FOR

RECREATIONAL VEHICLES

It's hard to beat a RELiON lithium iron phosphate (LiFePO₄) battery when they deliver everything you need to support life on the road and off-the-grid. Inherently safe and lightweight, you'll not only travel further more efficiently, you'll do it with less of a footprint without sacrificing power, performance and reliability.

**MORE USABLE CAPACITY**

Lithium batteries allow you to use 100% of their capacity, regardless of the rate of discharge. So, run all your electronics and know that you have ample reserves, even when you're boondocking.

**LONGER LIFE**

RELiON lithium batteries provide up to 10 times longer life than lead-acid batteries, and they still provide 80% of rated capacity after 2,000 cycles.

**PARTIAL STATE OF CHARGE TOLERANCE**

Partial charging does not affect performance quality or battery life. A low self-discharge rate means worry-free storage so even occasional users can be assured of reliable performance.

**CONSTANT POWER**

Full power available throughout discharge. Voltage does not drop like lead-acid.

**LIGHTER WEIGHT**

50-60% less weight than lead-acid equivalent.

**MAINTENANCE-FREE**

Plug, play and charge. No watering.

**TEMPERATURE TOLERANCE**

2.5X more efficient operation at low temperatures. Safely operational up to 149°F (65°C).

**INSTALLATION FLEXIBILITY**

Can be installed upright or on its side.

OUR PRODUCTS



Whether you're living on the road or an enthusiastic weekend warrior, you want reliable power both on and off the grid. We have one of the largest LiFePO4 product offerings available with 12V, 24V and 48V batteries available in a variety of BCI standard sizes for easy drop-in replacement.

OUR MOST POPULAR LITHIUM RV BATTERIES

BATTERY	BCI SIZE	VOLTAGE	CAPACITY (AH)	ENERGY	CURRENT CAPABILITY	WEIGHT
RB100	31	12.8V	100	1280	100	26.4 (11.98)
RB100-LT	31	12.8V	100	1280	100	27.9 (12.64)
RB200	8D	12.8V	200	2560	100	61.1 (27.7)
RB300	8D	12.8V	300	3840	100	75.8 (34.36)
RB300-LT	8D	12.8V	300	3840	100	76.1 (34.54)
RB24V50	31	25.6V	50	1280	50	29.1 (13.2)
RB24V100	8D	25.6V	100	2560	100	61.1 (27.7)

WEATHER ANY SEASON WITH THE LT SERIES






Our Low Temperature (LT) Series lithium batteries are cold-weather performance batteries that can charge at temperatures down to -20°C (-4°F).

How? The system features proprietary technology that draws power from the charger itself, requiring no additional components. The entire process of heating and charging is completely seamless. Simply plug the battery into the regular lithium charger and the internal heating and monitoring system takes care of the rest.



WHICH RELiON BATTERY IS RIGHT FOR *YOUR RV?*

With so many different configurations, applications and needs, RV owners know finding a battery that checks all the boxes can be a challenge. The chart below shows common batteries purchased for use in different classes of RVs.

	CLASS	DESCRIPTION	TYPICAL POWER SYSTEM	SHORE POWER SERVICE (Maximum Current)	RELiON BATTERY REPLACEMENT MODEL <small>(Single or multiples in series or parallel to meet voltage/capacity needs)</small>
	Class A	Large motor coaches with all the comforts of home. May have two bedrooms/bathrooms, full kitchen, & living room/entertainment areas. House batteries coupled with solar/generator could power all systems.	12-48 volt system powered by banks of 6V AGM batteries. New higher end models may come with lithium batteries as a standard feature.	50 Amp	RB200 or RB300
	Class B	Van body in which the interior is customized for outdoor recreation. May include additional storage on top or optional solar panels.	12-24 volt systems powered by banks of 12V AGM batteries.	30-50 Amp	RB75, RB80, RB100, RB100-LT
	Class C	Van or truck chassis with corrugated vinyl or smooth aluminum exterior. Living portion built on top of truck chassis frame.	12-24 volt systems powered by banks of 12V AGM batteries.	30-50 Amp	RB100, RB100-LT
	5th Wheel	Fifth Wheel/Kingpin are non-motorized trailers that are too large to be towed by a traditional weight distributing hitch at the bumper. Usually 30' or longer.	12-24 volt systems powered by banks of 12V AGM batteries.	30-50 Amp	RB100, RB100-LT
	Toy Hauler	Tow hitch or fifth wheel trailers with a drop down gate in the rear for "toys" like motorcycles or ATVs. Furnishings are retracted in the ceiling or walls when toys are loaded inside the trailer. Usually 30' or longer	12-24 volt systems powered by banks of 12V AGM batteries.	30-50 Amp	RB80, RB100, RB100-LT
	Travel Trailer	Travel trailers of various lengths from small 1-2 person tear drops towable by automobiles up to 40' trailers sleeping eight or more.	12-24 volt systems powered by banks of 12V AGM batteries.	15-30 Amp	RB60, RB75, RB80, RB100, RB100-LT
	Pop-Up	Small trailers that a tent top extends or "pops up" from the solid trailer base.	12 volt systems powered by U1 or Group 24 batteries	15 Amp	RB35, RB50, RB60, RB75



WHY CHOOSE RELiON?

PRODUCTS ENGINEERED IN THE USA

Our Seattle-based engineering team works hand-in-hand with our manufacturing facilities to ensure quality products that perform. Not only are we committed and able to deliver the best products, but we are proud to say our factory is ISO 9001:20015 certified.

UNPARALLELED EXPERTISE

When you become a RELiON customer, know that you have a talented team of experts behind you. Our team has been in the industry for 20+ years with over 190 years of combined battery experience. We only invest in people with industry experience, which is why we can say our technical know-how is truly unmatched.

PRODUCT INNOVATION

Today, the industry demands innovation that delivers unmatched power, performance, and life. RELiON LiFePO₄ batteries accomplish this and surpass existing batteries in the market due to our focus on product development. We have one of the largest LiFePO₄ product offerings available with 12V, 24V and 48V batteries that power a range of applications.

PEACE OF MIND

Not only do RELiON lithium batteries work hard so you can play hard, they're an inherently safe chemistry and engineered with exclusive safety measures, including state-of-the-art battery management system (BMS) that protects against over-charge, over-discharge, over-temperature and short circuit conditions. At RELiON, safety comes standard, so you never have to worry.

WHAT OUR CUSTOMERS ARE SAYING



"The RELiON batteries have a solid warranty and a stellar Battery Management System (BMS). Especially compared to lead acid batteries, which I've used in the past, the RELiON batteries are much lighter, which is crucial given van weight limitations. In addition to being very lightweight, they also come in a range of different, highly compact, sizes. They also use the safest battery chemistry: lithium iron phosphate, which is key if you're sleeping next to them."

- JARROD TOCCI

"We love to boondock and enjoy nature and our RELiON LiFePO4 lithium battery upgrade has been a game-changer. RELiON's lithium technology provides us complete freedom to live off-grid in our RV. No more battery anxiety and, without a doubt, the best money we've ever spent on RV upgrades. I can honestly say we will never own an RV without RELiON lithium batteries. Thanks, RELiON for changing our RVing lives."

- AARON JONES, JONESN2TRAVEL



 **Limitless**
Blue

Blue Battery. Blue Sky. Blue Ocean.

WE USE OUR BUSINESS FOR GOOD

RELiON is more than a manufacturer of lithium batteries. We are stewards of our environment and use our business as a force for good in everything we do. We call this Limitless Blue. We challenge ourselves to improve our planet and, hopefully, inspire others to do the same.

As 1% for the Planet members, we donate 1% of our revenue each year to non-profits solving the most pressing environmental challenges of our time.





Challenge Your **Li³**imits[®]

relionbattery.com

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UN38.3



ISO 9001:2015

ISO/TS 16949:2009

ISO 14001:2004

OHSAS 18001:2007

Quality Management System

Quality Management System

Environmental Management System

Occupational Health and Safety Management System

Certifications Applicable to the Design and Manufacture of Lithium Iron Phosphate Batteries

RELION Battery provides our customers with the highest quality and safest lithium products, in compliance with all regulatory standards.

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RV BROCHURE
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