

RELi³ON[®]

NAVICO
GROUP

Li³

mitless

Journeys Ahead



HIGH POWER ENERGY TO EXPLORE

When the journey involves countless miles or remote campsites, a trustworthy battery is what is needed the most. Lightweight RELiON lithium iron phosphate (LiFePO4) batteries are maintenance-free, fast-charging and environmentally friendly to provide reliable power and peace of mind.

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."



7 Tortoise and the Hare Blog - www.tortoiseandthehare.com



Li³ THIUM 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.

FEATURES AND BENEFITS



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 3,500 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.



INSTALLATION FLEXIBILITY

Can be installed upright or on its side.



CONSTANT POWER

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



ECO-FRIENDLY & SAFE

RELiON lithium batteries create no exhaust fumes so you can use them in a confined space with no ill effects. No gassing, no fumes, and no pollution.



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).

LEAD IS DEAD

Check out the chart below to compare the performance advantages of advanced lithium technology versus traditional lead-acid batteries.

LITHIUM VS. LEAD-ACID COMPARISON FOR RECREATIONAL VEHICLES

	FLOODED LEAD-ACID	AGM	RELiON LiFePO4
FEATURE			
Cycle Life	300 - 400 cycles	300 - 400 cycles	3,500
Max Usable Capacity	50%	50%	85%
Discharge Efficiency	50-90%	50-90%	99%
Maintenance	High	Medium	None
Charge Time	6 - 12 Hours	6 - 12 Hours	1 - 5 Hours
Partial Charging Capable	No	No	Yes
Weight Comparison	100%	100%	50%
Charge Efficiency	80%	85%	99%
Cost	\$	\$\$	\$\$\$



WHY PAY MORE FOR LiFePO4?

RELiON's long-lived LiFePO4 batteries reduce the inconvenience and expense of replacement and service calls, and they lend peace of mind to many users when it comes to demanding applications.

Our calculation compares the total cost of ownership of RELiON's RB100, a 12V 100 Ah LiFePO4 battery, to three equivalent size (BCI Group 31) off-the-shelf lead-acid battery technologies. Using measured lifetimes taken from the manufacturer's published specifications of each battery, our analysis shows that the RB100 costs at least 51% less over life than even the most cost-effective lead-acid battery.

TOTAL COST OVER LIFE COMPARISON

	FLA	AGM	GEL	RELiON
COST FACTOR				
PURCHASE COST	\$	\$ \$	\$ \$ \$ +	\$ \$ \$ \$ \$ \$
INSTALLATION COST	\$	\$	\$	\$
MAINTENANCE COST	\$ \$ \$	\$	\$...
CHARGING COST	\$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$
REPLACEMENT COST	\$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ +	\$ \$ \$ \$ \$...
REPLACEMENT LABOR	\$ \$ \$	\$ \$ \$ \$	\$ \$ \$...
# OF REPLACEMENTS	■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■	...
CYCLE LIFE	○ ○ ○	○ ○	○ ○ ○	○ ○ ○ ○ ○ ○ +
TOTAL COST OVER LIFE	\$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ +	\$ \$ \$ \$ \$ \$	\$ \$

OUR PRODUCTS








Whether off the grid or traveling in an RV, reliable power is essential. We have one of the largest LiFePO4 product offerings available with 12V and 24V 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 (LBS)
LEGACY SERIES						
RB100	31	12.8V	100	1280	100	26.4 (11.98kg)
RB200	8D	12.8V	200	2560	100	61.1 (27.7kg)
RB300	8D	12.8V	300	3840	100	75.8 (34.36kg)
RB24V52	31	25.6V	52	1280	50	29.1 (13.2kg)
RB24V100	8D	25.6V	100	2560	100	61.1 (27.7kg)
LT SERIES						
RB100-LT	31	12.8V	100	1280	100	27.9 (12.64kg)
RB300-LT	8D	12.8V	300	3840	100	76.1 (34.54kg)
INSIGHT SERIES						
12V120-GC2-LT	GC2	12.8V	120	1536	160	34.4 (15.6kg)

WHICH RELION BATTERY IS RIGHT FOR YOUR RV?

With so many different configurations, applications and needs, finding a battery that checks all the boxes can be a challenge. Below find common batteries for use in different classes of RVs.

	CLASS	TYPICAL POWER SYSTEM	SHORE POWER SERVICE (Maximum Current)	RELION BATTERY REPLACEMENT MODEL (Single or multiples in series or parallel to meet voltage/capacity needs)
	Class A	12-48 volt system powered by banks of 6V AGM batteries.	50 Amp	RB200, RB300, InSight 12V
	Class B	12-24 volt systems powered by banks of 12V AGM batteries.	30-50 Amp	RB75, RB80, RB100, RB100-LT, InSight 12V
	Class C	12-24 volt systems powered by banks of 12V AGM batteries.	30-50 Amp	RB100, RB100-LT, InSight 12V
	5th Wheel	12-24 volt systems powered by banks of 12V AGM batteries.	30-50 Amp	RB100, RB100-LT, InSight 12V
	Toy Hauler	12-24 volt systems powered by banks of 12V AGM batteries.	30-50 Amp	RB80, RB100, RB100-LT, InSight 12V
	Travel Trailer	12-24 volt systems powered by banks of 12V AGM batteries.	15-30 Amp	RB60, RB75, RB80, RB100, RB100-LT, InSight 12V
	Pop-Up	12 volt systems powered by U1 or Group 24 batteries	15 Amp	RB35, RB52, RB60, RB75

SPECIALTY BATTERIES



INSIGHT SERIES

The InSight Series™ 12V battery, designed specifically for RV deep cycle applications, is capable of 2,048 watts continuous from a single battery. This 120Ah powerhouse lithium battery can output 160A continuous and offers higher peak discharge, allowing for multiple appliances to be ran at the same time.

LOW TEMPERATURE 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.



CUSTOM SOLUTIONS

Batteries are not one size fits all and at RELiON, we want to help you determine the right solution for your needs. Stock batteries may not fit, or more power is required to keep your applications running at top capacity. Our team of experienced engineers are uniquely qualified to design the highest quality battery pack for your application - assuring you get the right solution that meets your specifications.

WE STAND BEHIND OUR PRODUCT! 10 YEAR WARRANTY

WHO IS RELiON?

OUR MISSION:

To power the world's transition to Lithium energy storage, ethically.

OUR VISION:

To be the most sought after & admired Lithium battery company in the world by helping our customers challenge and overcome their limits.

OUR PHILOSOPHY:

Our motto, Challenge Your Limits, reflects our philosophy to push yourself to greatness. We, along with our customers, live and breathe adventure and relish the opportunities that our planet provides. We feel it is our duty to do better as a business, making our batteries as sustainable as possible for our customers who enjoy being outdoors.



WHY WE'RE DIFFERENT



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.

WORLDWIDE PRESENCE

We are a global team of knowledgeable experts who work together day in and day out to create the best lithium battery for our customers. With representatives on each continent, sharing information and expertise in real time, we are able to improve products, innovate together and create consistency among each of our product lines.

INVESTED IN OUR FUTURE, AND YOURS

We're dedicated to providing clean, green reliable power for a variety of applications. When you're looking for a trustworthy partner to build your custom product, let our experts reduce development risk and bring a high-quality product to market faster for you. Whatever your energy needs, we're ready to meet the demand.



A proud brand within Brunswick's Navico Group

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 T.

"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 J.



"In a truck camper, the weight matters a great deal. My two, 100 Ah lithium batteries are half the weight of the lead-acid batteries with twice the power since I can use them down to around 10% or more of their capacity as opposed to 50% capacity on the lead-acid batteries. If I were to recommend RELiON batteries to a close friend, I would say that they're a good, safe bet that are far superior to any lead-acid/AGM batteries. We would never switch to another battery."

- ANNE L.



MORE THAN JUST A BATTERY COMPANY.

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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NAVICO GROUP

YOUR MOST TRUSTED PARTNER

Navico Group is the world's leading supplier of integrated systems and products to industries ranging from marine to recreational vehicles. We bring together the best brands, products and people to create groundbreaking innovations that reinvent the consumer experience. Our broad portfolio of the industry's leading brands in power management, digital control & monitoring, networked devices, and marine electronics are distributed globally to a diverse aftermarket and OEM customer base. Navico Group is driven, every day, to be the world's most trusted partner to the marine and mobile industries, and beyond.

UN38.3



- ISO 9001:2015 Quality Management System
 - ISO/TS 16949:2009 Quality Management System
 - ISO 14001:2004 Environmental Management System
 - OHSAS 18001:2007 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
08.08.22