



RE

EMBRACE THE
POWER OF SUN  **GHT.**

RE  **ON**®

FEATURES AND BENEFITS - LITHIUM



MORE USABLE CAPACITY

25-50% more capacity than lead-acid equivalent.



LONG SHELF-LIFE

Low self-discharge so battery maintains state of charge.



LONGEST LIFE

Up to 10X longer cycle life than lead-acid equivalent.



NON-HAZARDOUS

No gasses emitted.



CONSTANT POWER

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



PSOC TOLERANT

No damage from partial state of charge operation or storage.

With our vast range of products and deep industry knowledge, we can deliver the power you need – from **drop-in replacements** to **custom solutions**. RELiON's dedicated engineers will help you find the ideal battery for your application.



Maximum Power. Maximum Life.

When you use RELiON Lithium Iron Phosphate (LiFePO₄) batteries as part of your solar energy system, you know you're making the absolute most of it. That's because RELiON batteries are the ultimate clean energy, delivering highly-efficient, ultra-long life and constant power you can depend on in even the most extreme environments.

TAKE CHARGE: Partial state of charge, known as PSOC, which is a killer of lead-acid batteries, does not affect performance or battery life of a lithium battery. Batteries often don't get fully charged, or they regularly operate in a partial state of charge. Either way, you can count on RELiON lithium batteries living a long and productive life.

ULTRA-LONG 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. Spend more time powering your applications and less time replacing your batteries.





MORE HOURS OF POWER: Lead-acid batteries are typically over-sized up to two times your energy needs to account for extended periods without sun and less usable energy with higher rates of discharge. Plus, you are usually cautioned to limit your use to 50% of the rated capacity, as using more can significantly reduce performance. Lithium batteries provide 100% of their rated capacity, regardless of the rate of discharge. And, you can use it all and still get substantially longer cycle life.

WORRY-FREE: RELiON lithium batteries are maintenance-free – no watering, no corrosion. Low self-discharge means the batteries don't lose capacity when they're idle, assuring that you have the energy you need, every time you need it.

EXTREME PERFORMANCE: RELiON lithium batteries are designed to perform in harsh conditions—freezing cold, scorching heat or rough waters.

ECO-FRIENDLY: RELiON lithium batteries are the ultimate clean energy. No gassing, no fumes and no pollution. Enjoy reliable power, while protecting the environment, using these non-hazardous batteries.

SAFETY TESTED: Unlike other lithium chemistries, RELiON LiFePO₄ batteries are inherently safe due to their stable chemical composition, and we have the UL1642 and IEC62133 test results to prove it.

BACKED BY THE BEST: Built to last, designed to perform, premium RELiON lithium batteries deliver unsurpassed performance wherever you are. We back this claim with a comprehensive, 7-year warranty.

WHY RELION?

All of our batteries come with our proven BMS technology that protects your battery from damage due to misuse. Choose from our core solar products listed below, or visit reliionbattery.com to see all of our available solar solutions. If you don't see what you need, contact one of our dedicated engineers to ask about custom solutions.

	Nominal Voltage	Energy (Wh)	Current (A)		Dimensions inches (mm)			Weight lbs (kg)	Terminal Type	Case Material
			Continuous	Peak	Length	Width	Height			
RB170	170	2176	200 A	250 A	19.5 (495)	10.6 (268)	7.9 (202)	66 (30)	M8	Steel
RB24V200	200	5120	200 A	250 A	16.1 (410)	13.7 (349)	16.4 (417)	110 (50)	M10	Steel
RB48V100	100	5120	200 A	250 A	22.8 (578)	16.1 (410)	8.3 (210)	137 (62)	M10	Steel
RB48V150	150	7680	100 A	350 A	23.6 (600)	12.1 (308)	12.6 (320)	179 (81)	M10	Steel
RB48V200	200	10240	200 A	250 A	34.1 (867)	14.1 (358)	15.5 (393)	302 (137)	M10	Steel
RB48V300	300	15360	200 A	250 A	29.1 (740)	19.9 (506)	16.1 (408)	388 (176)	M10	Steel



We Can **Build a Custom** Solar Lithium Battery **JUST FOR YOU**

Every solar energy system is different! Our engineers can design a custom lithium iron phosphate (LiFePO₄) solar battery solution that's ideal for your application. This way, you're guaranteed the exact fit, chemistry, and specifications you need.

Challenge Your **Li³** limits

reliionbattery.com

Call Toll-Free (US Only): **1 (844) 385-9840**

All International Calls: **+1 (803) 547-7288**

UN38.3

ISO 9001:2008

ISO/TS 16949:2009

ISO 14001:2004

OHSAS 18001:2007

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

Quality Management System

Quality Management System

Environmental Management System

Occupational Health and Safety Management System

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

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SOLAR BROCHURE
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