



Relion RB100-D: The Ultimate Deep Cycle Lithium Battery Solution

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Breaking Free From Lead-Acid Limitations

Ever tried lifting a 31-group AGM battery? It's like wrestling a drunken grizzly - all 70+ pounds of lead-acid frustration. Now meet the Relion RB100-D, tipping scales at just 26.4 lbs while packing 1280Wh of clean energy. This LiFePO4 marvel laughs in the face of traditional batteries, delivering 99% efficiency with self-discharge rates under 3% monthly. your solar setup charges 5x faster than with lead-acid, while the battery lasts through 2000+ cycles - that's 10x longer than your grandpa's golf cart batteries.

Technical Specifications That Matter

Peak power delivery: 300A for 30 seconds (enough to start most marine engines)

Operating temperature range: -4°F to 140°F (-20°C to 60°C)

Built-in smart BMS protects against overcharge/over-discharge

Real-World Applications That Shine

Let's talk about Mike from Colorado - converted his Winnebago's dual 6V golf cart batteries to a single RB100-D. His coffee maker now brews at 5000ft elevations without voltage drop, while saving 54lbs of payload capacity for his craft beer collection. For marine applications, the IP66 rating means it survives accidental dunkings that would kill lead-acid units.

Industry-Leading Safety Features

Unlike sketchy lithium cousins prone to thermal runaway, the RB100-D's LiFePO4 chemistry maintains stability even when punctured. UL-recognized cells combined with military-grade ABS housing create a battery tougher than a Vegas blackjack dealer.

Cost Analysis That Converts Skeptics

Battery Type

Upfront Cost

10-Year Cost

Lead-Acid

\$200

\$1,200+



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RB100-D

\$899

\$899

The secret sauce? While lead-acid needs replacement every 2-3 years, Relion's 10-year warranty ensures decade-long service. Add in 95% depth of discharge vs lead-acid's 50% limit, and you effectively double your usable capacity.

Installation Flexibility Redefined

Mount it sideways. Stack 'em three high. Submerge it temporarily (though we don't recommend pool parties). The RB100-D's valve-regulated design and M8 terminals adapt to any configuration. Pro tip: Use the saved space from ditching lead-acid banks to store extra fishing gear - your tackle box will thank you.

Smart Charging Ecosystem

- 0-100% charge in 2 hours with proper charger
- Automatic cell balancing during charge cycles
- Compatible with solar, alternator, and shore power inputs

Environmental Impact You Can Measure

Every RB100-D prevents 300+ lbs of lead waste over its lifespan. Relion's 1% for the Planet commitment means part of your purchase protects actual wilderness - not just virtual LinkedIn posts about sustainability.

Web: <https://www.sphoryzont.edu.pl>