



# Solar lithium battery 48v 200ah

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**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. Sometimes batteries 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 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 typically cautioned to limit your use to 50% of the rated capacity, as using more can significantly reduce performance. A Lithium battery will provide 100% of the rated capacity, regardless of the rate of discharge. And, you can use it all and still get substantially longer cycle life.

When you use a RELiON Lithium Iron Phosphate (LiFePO<sub>4</sub>) battery as part of your solar power system, you know you're making the absolute most of it. That's because RELiON lithium 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.

**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 LiFePO<sub>4</sub> batteries are inherently safe due to their stable chemical composition, and RELiON has 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. RELiON backs this claim with a comprehensive, 5-year warranty.

LiFePO<sub>4</sub> batteries pack a punch. Knocking out traditional lead acid batteries, LiFePO<sub>4</sub> is the more efficient



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technology. Many manufacturers, businesses and individuals are making the switch and converting to custom lithium batteries.

Lithium technology offers many advantages over traditional batteries. It requires no maintenance and does not produce dangerous hydrogen gas. It offers as much as 10 times the life span compared to lead acid batteries. LiFePO<sub>4</sub> also weighs 1/3 as much as lead acid batteries and charges up to five times faster, depending on the charger that's used.

When you convert to LiFePO<sub>4</sub>, you double your battery capacity and operational time, plus you reduce energy waste. Lithium is a green product with no heavy metals and no carcinogenic properties. Its longer life span significantly reduces manufacturing and transportation emissions when compared to lead acid.

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