

RELi³ON[®]

The best lithium battery designed specifically for golf cars



insight[™]
SERIES

UL 2271 Certified

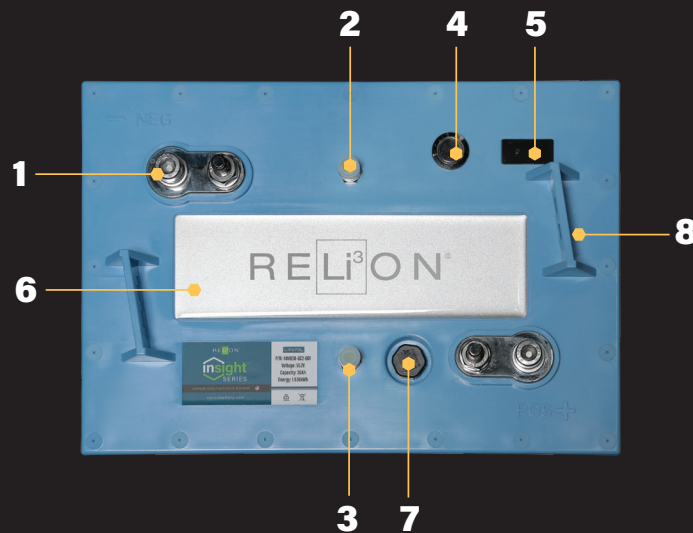


DESIGNED TO FIT. ENGINEERED TO PERFORM.

Designed and engineered from the ground up by a team of battery experts, RELiON's InSight Series™ is the only lithium battery built to meet the power and energy requirements in golf cars, utility vehicles, AGVs and LSVs.

InSight features all the benefits of lithium batteries – longer life, no maintenance, faster charging – with even more intelligent features built-in. From its superior battery design to its one-of-a-kind BMS and intuitive software, InSight batteries offers exclusive advantages you won't find in competitive products. Making it an exceptional return on investment for years to come.

INTELLIGENT DESIGN



- 1.** Dual M8 Terminals (insert & stud)
- 2.** CANbus Input
- 3.** CANbus Output
- 4.** Power Button
- 5.** SOC/Status LEDs
- 6.** Heatsink
- 7.** Vent
- 8.** Lifting Brackets

GO FURTHER WITH INSIGHT

INSIGHT 48V 30AH BATTERIES

RANGE*

2 (60Ah)

24 - 34 miles per charge

3 (90 Ah)

36 - 51 miles per charge

**Based on a standard, 2-seat, golf car.*



Li³THIUM VS. LEAD-ACID BATTERIES

Compared to lead-acid and other lithium batteries, lithium iron phosphate batteries offer significant advantages, including improved discharge and charge efficiency, longer life span and the ability to deep cycle while maintaining power. LiFePO₄ batteries often come with a higher price tag, but a much better cost over life of the product. No maintenance and super long life makes them a worthwhile investment and a smart long-term solution.

FEATURES AND BENEFITS - LITHIUM



LIGHTWEIGHT

Lithium batteries are typically half the weight of lead-acid batteries.



MAINTENANCE-FREE

RELiON lithium batteries are maintenance free - no watering; no corrosion.



HIGHLY EFFICIENT

Fast recharge time and a 99% efficient recharge process, which means less wasted electricity.



PSOC TOLERANT

If operated in PSOC there is no damage. This is one of the leading causes of early failure in lead-acid batteries.



LONGER LIFE

Up to 10X longer life span compared to lead-acid batteries.



SAFETY

Inherently safe chemistry. BMS provides extra protection.



MORE USEABLE CAPACITY

A 25-50% higher capacity than lead-acid batteries with full power available throughout discharge.



LOWER TOTAL COST OF OWNERSHIP

Changing batteries less often means fewer replacement and labor costs.

WHY CHOOSE RELiON'S INSIGHT LITHIUM BATTERY?

EASY INSTALLATION

InSight is a true drop-in solution for 48V vehicles. It's a 48V, 30Ah GC2/GC8 battery so there are no tray modifications needed. The most challenging part will be removing the heavy lead-acid batteries from the vehicle!

SUPERSMART BMS™

InSight batteries have numerous advantages over competitors, starting with its SuperSmart BMS and intuitive Software - the most crucial components in a lithium battery. Learning algorithms make InSight the only lithium battery capable of calculating state of charge and state of health that gets even more accurate over time.



CUSTOMER TESTIMONIAL

"Purchased two 30AH Insight Batteries and Battery Monitor. I completed installation on a Club Car Precedent in about a day including some custom mounts. These batteries are truly state of the art "smart batteries" with on-board management and SOC indication. Their initial performance has been outstanding. The weight reduction of 400 lbs to 88 lbs (with charger on board) makes the cart feel light and fast. There is no going back to high-maintenance lead-acid batteries. Even though the initial cost is higher, these lithium batteries are the best life cycle proposition for this application. Kudos to RELiON!"

- RICK R.





INTELLIGENT COOLING

Unlike other lithium batteries that can trap heat, the InSight Series uses a carefully engineered cooling management system to quickly remove heat from inside the battery during conditions of high discharge and recharge currents. This prevents over-heating of critical components, which also extends the life of the battery.

SCALABLE SYSTEM

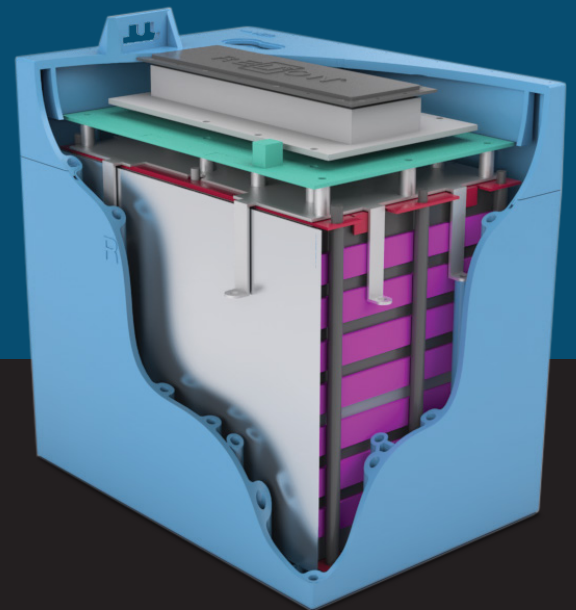
InSight batteries offer freedom and flexibility. They are connected in parallel (up to 10) which means you can scale your system to provide increased power and energy (up to 300Ah) as needed.

MANAGES REGENERATIVE CURRENTS

Other lithium batteries can't manage regenerative currents, mainly because the battery can't tell the difference between a charge current and a regen current. InSight batteries feature proprietary software that determines and safely manages regen currents - avoiding unnecessary battery disconnects.

SUPERIOR CONSTRUCTION

You can customize a lot about your golf car, but you can't customize your battery. That's for us to do, and you can trust that we did it right. Not only are InSight batteries smarter, but they're also built to the highest quality standards.



WE STAND BEHIND OUR PRODUCT!
10 YEAR WARRANTY

INDUSTRY CERTIFICATIONS

UL2580 (Cell)
File Number: MH63797

UL2271 (Battery Pack)
File Number: MH64262

CE (Battery Pack)
IEC 62133-2:2017 (Battery Pack)
UN38.3 (Battery Pack)

UN38.3



WHY CHOOSE RELiON?

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 the 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.

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.



Blue Battery.
Blue Sky.
Blue Ocean.

PEACE OF MIND

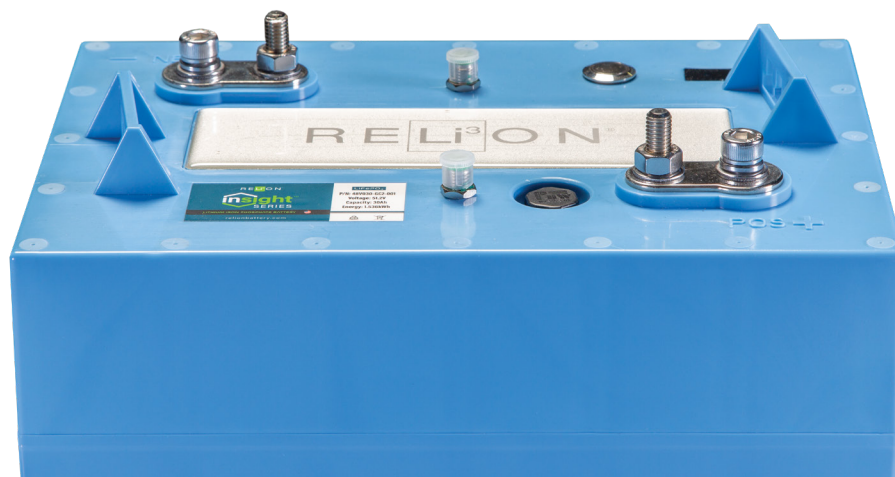
Not only do RELiON lithium batteries work hard so you can play hard, they're an inherently safe chemistry and engineered with exclusive safety measures, including state-of-the-art battery management system (BMS) that protects against over-charge, over-discharge, over-temperature and short circuit conditions.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

TECHNICAL SUPPORT TEAM

We are a global company, but our team of customer service representatives and engineers are located in the United States, giving you quick and easy access when you need help.

GLOBAL PRESENCE

Being on all 7 continents isn't what makes RELiON a global company; sharing information and expertise in real-time, across teams and time zones worldwide, is what makes us a truly global company. Acting globally improves product consistency and allows us to make improvements quickly, so we can deliver the best possible products.



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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INSIGHT
CUSTOMER GOLF
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