

**RELiON's NEW InSight Series is a**  
**GAME CHANGER**  
 when it comes to delivering reliable  
 power to your golf cart.

RELiON's new InSight Series is the first LiFePO4 drop-in replacement battery, that comes in industry-standard sizes. They're both modular and scalable and come in 12-Volt, 24-Volt, 36-Volt and 48-Volt configurations. Easily connect multiple batteries in parallel to get the power and capacity you need. Connect two 48-Volt InSight Series batteries in parallel for moderate duty applications or connect up to eight 48-Volt batteries in parallel to increase the available capacity for longer runtime. No additional hardware needed, just connect and go!

**Game Changing Technology**

- The innovative design makes InSight batteries easy to install. Plus, they use the connections you're already accustomed to when connecting in parallel.
- InSight Series eliminates worrying about cell imbalance between batteries because the SuperSmart BMS provides Bullseye Balancing, ensuring you get maximum capacity throughout the life of your battery.
- High demand applications often require high currents. With InSight's strategically placed heatsink you can run at high currents without compromising the life of your battery or BMS.

RELiON'S NEW INSIGHT SERIES:  
**REDEFINING WHAT'S  
 POSSIBLE WITH LITHIUM**

**BASED ON PROVEN TECHNOLOGY**

RELiON's InSight batteries are based on proven BMS technology, with hundreds of thousands of systems already in the field in demanding applications, such as aviation and robotics. That means InSight batteries are proven to deliver leading-edge performance and reliability. Since they're based on stable LiFePO4 chemistry, they're also safe and have a long life.



**UN38.3**  
 PENDING

ISO 9001:2008      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

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

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INSIGHT BROCHURE  
 1.07.2019

RELiON<sup>®</sup>

**insight**  
 SERIES

**THE NEXT GENERATION OF  
 LITHIUM GOLF CART BATTERIES**



# What makes InSight Series Unique?



## SUPERSMART BMS

RELiON InSight Series SuperSmart BMS, the most critical component in the battery, maximizes performance, even when connected in parallel, eliminating the need for an external master BMS, or any additional hardware.



## BULLSEYE BALANCING

The innovative algorithms in the SuperSmart BMS ensures precise balancing. This optimizes performance in each battery when multiple batteries are connected in parallel, providing maximum capacity and life.



## INTELLIGENT COOLING

Unlike other lithium batteries that can trap heat, the InSight Series uses a carefully engineered passive heat 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.



# Power that is Driven to Perform

## INDUSTRY-STANDARD SIZING

InSight Series batteries are drop-in replacements for all golf cart batteries. There's no need to modify the battery trays, and no extra components or retro-fit kits are needed. Simply remove your old batteries, drop in, connect your new RELiON InSight Series batteries, and you're ready to ride.

## WORKS WITH ANY BATTERY CHARGER

No need to replace or upgrade your current chargers! Thanks to the SuperSmart BMS, RELiON's InSight Series batteries are compatible with nearly all lead-acid chargers. Simply connect the batteries to the charger and the SuperSmart BMS takes care of the rest.

## VISUAL LED INDICATOR

InSight Series batteries include LED indicators to show the state of charge and battery status. Ideal for assessing battery status at a glance.

## ADVANCED COMMUNICATIONS AND DIAGNOSTICS

Each RELiON InSight Series battery includes built-in CANbus communication that provides manufacturing, application, and historical data. In OEM applications, the battery can communicate with the motor controller.

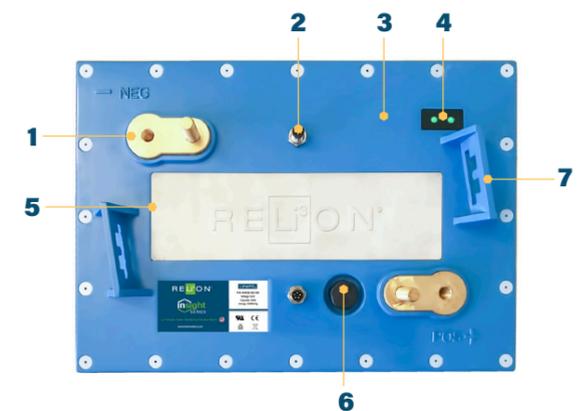
## STATE OF THE ART MANUFACTURING

Assembled in an advanced manufacturing facility, InSight Series batteries are tested at each stage of assembly to ensure a reliable, consistent, and high-quality product.

# Product Specifications

InSight Series batteries come in 12-Volt, 24-Volt, 36-Volt, and 48-Volt configurations. These modules are an ideal building block for a wide variety of applications.

Part Number	12V120-GC2-001	24V060-GC2-001	36V030-GC2-001	48V030-GC2-001
Voltage	12.8V	25.6V	38.4V	51.2V
Capacity	120Ah	60Ah	30Ah	30Ah
Charge Current	120A	50A	50A	50A
Continuous Discharge Current	200A	150A	100A	100A
Discharge Current (30s)	300A	275A	125A	125A
Maximum Discharge Current (10s)	350A	300A	150A	150A
Dimensions (LxWXH)	10.2x7x10.9" (260x180x276 mm)	10.2x7x10.9" (260x180x276 mm)	10.2x7x10.9" (260x180x276 mm)	10.2x7x10.9" (260x180x276 mm)
Weight	27.8 lbs (12.6 kg)	27.8 lbs (12.6 kg)	22 lbs (10 kg)	27.8 lbs (12.6 kg)



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