





# 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.** Wake-Up Button
- 5.** SOC/Status LEDs
- 6.** Heatsink
- 7.** Vent
- 8.** Lifting Brackets

## AVAILABLE CURRENTS WHEN CONNECTED IN PARALLEL

CHARACTERISTIC	Li <sup>3</sup>	Li <sup>3</sup> Li <sup>3</sup>	Li <sup>3</sup> Li <sup>3</sup> Li <sup>3</sup>	Li <sup>3</sup> Li <sup>3</sup> Li <sup>3</sup> Li <sup>3</sup>
Voltage	51.2V	51.2V	51.2V	51.2V
Capacity	30Ah	60Ah	90Ah	120Ah
Charge Current	50A	100A	150A	200A
Continuous Discharge Current	100A	200A	300A	400A
Peak Discharge (15s)	200A	400A	600A	800A

# 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.

## 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.

## EXPERT ENGINEERING

InSight was designed by a team of engineers with over 100 years combined experience in the Golf/Utility Vehicle-type segments. The result is a lithium battery that solves the challenges of power, capacity, ease of use and reliability - unlike any other lithium battery.

## GO FURTHER WITH INSIGHT

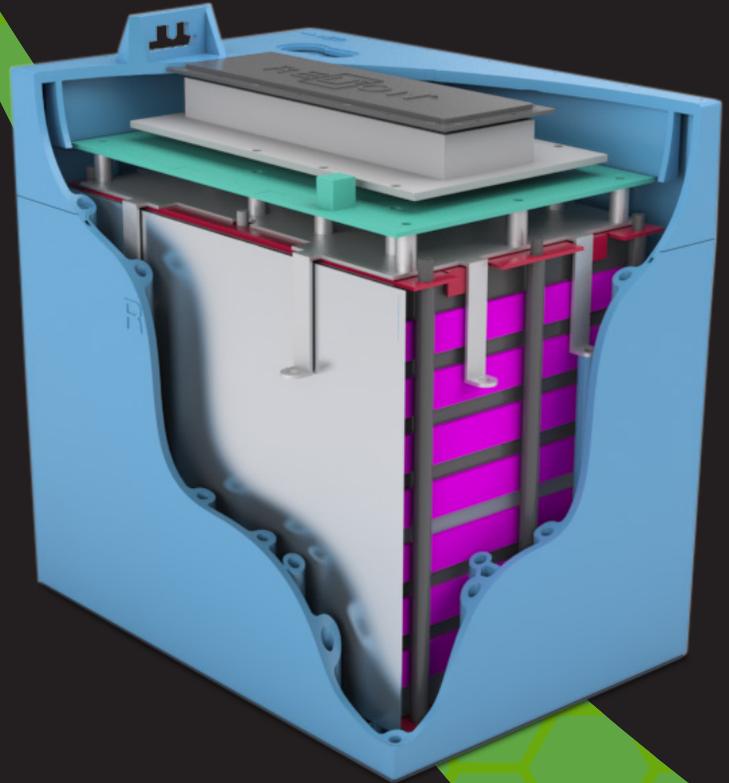
INSIGHT 48V 30AH BATTERIES	RANGE*
2 (60Ah)	20 - 35 miles per charge
3 (90 Ah)	30 - 50 miles per charge

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



# SIMPLY SUPERIOR IN EVERY WAY.

Not only are InSight batteries smarter, they're built to the highest quality standards. State-of-the-art construction that includes an exclusive heat sink, IP67 rated enclosure, and UL certification. Assembled in an advanced manufacturing facility, InSight Series™ batteries undergo rigorous quality control checks and inspection at each stage of assembly to ensure a reliable, consistent, and high-quality product.



## 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**



## WE STAND BEHIND OUR PRODUCT

# 7 YEAR WARRANTY

**RELi<sup>3</sup>ON**®

[relionbattery.com](http://relionbattery.com)

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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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