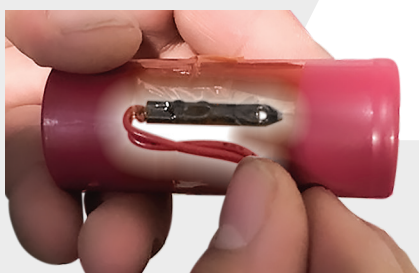


TROJAN LITHIUM-ION BATTERIES

# RELEASE THE BEAST.



## WHY TROJAN BATTERY IS A TRUSTED NAME FOR LITHIUM-ION TECHNOLOGY.



Internal temperature sensors are a key component in lithium-ion battery charging and safety. They provide critical temperature data required to keep the lithium-ion battery in the optimum condition during the charging cycle.

Unlike other lithium-ion batteries that have only two or three, Trojan GC2 24V, 36V and 48V Lithium-Ion batteries have five internal temperature sensors. **Three are positioned to monitor cell temperature gradients. One ensures balance between the two sides of the battery. The fifth is on the BMS board to monitor discharge current path and electronics temperature.**

Temperature sensors serve two main purposes: preventing damage to the cells when charged in low temperatures and preventing dangerous overheating conditions within a cell or cells during charge. More sensors provide more feedback to the BMS, giving it better control of the charging. The result is longer battery life and safer operation.

Trojan lithium-ion batteries have four levels of safety redundancy at the cell level:

1. *Stable Cell Chemistry (Lithium Iron Phosphate)*
2. *Independent charge / discharge control circuit*
3. *Secondary charge and discharge control circuit*
4. *Emergency mechanical fusing*

As the global name in motive batteries, Trojan ensures the safe operation of our lithium-ion products. In-house and third-party testing verifies that each product meets or exceeds the requirements and regulations of international safety standards, including:



**Underwriters Laboratory (UL)** – Certified lithium-ion cells



**Society of Automotive Engineers (SAE)** – Durability and vibration testing



**Electrical Testing Laboratories (ETL)** – Qualified lithium-ion chemistry



**Federal Communications Commission (FCC)** – Ensures electromagnetic radiation is below the specified limits



**Conformité Européenne (CE)** – Conforms with European health, safety and environmental protection standards

With your safety in mind first, Trojan lithium-ion batteries feature a battery management system (BMS) that protects against short circuits, overheating and other unsafe conditions. They are equipped with a truly “smart” design that utilizes dual processors for full back-up — ensuring the system is always running.

To find out other reasons Trojan Battery is a trusted name for lithium-ion technology, contact your local Authorized Lithium-Ion Trojan Dealer at [www.TrojanBattery.info/lithium-dealers](http://www.TrojanBattery.info/lithium-dealers).



FIND DEALER



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