

# Power for the future

## Lithium-ion batteries for hybrid combat vehicles



# Saft. Technology today.

## The U.S. military's choice for hybrid power

The superior performance of Saft's Li-ion batteries has made them the clear choice for the U.S. military. Saft has been selected to provide batteries for the U.S. military's Future Combat Systems program. Saft batteries are powering several hybrid military demonstrator vehicles, including:

- BAE Systems' (formerly United Defense) Non Line of Sight Cannon (NLOS-C) and Lancer
- Carnegie-Melon National Robotics Engineering Center's Crusher
- General Dynamics Land Systems' Reconnaissance Surveillance Tactical Vehicle (RSTV) and Advanced Hybrid Electric Drive (AHED 8x8) Vehicle
- U.S. Army TACOM/DRS's hybrid-electric High Mobility Multi-Purpose Wheeled Vehicle (HMMWV)

## Optimized for military capabilities

You need reliable, powerful and rugged solutions that will perform under the most challenging circumstances. Saft's high-performance, high-power batteries meet the military's requirements for high-demand systems. Commercial products simply won't perform in battlefield



conditions. Saft uses the most advanced technology available to develop battery systems that perform above and beyond commercial product capabilities.

## Designed, developed and manufactured in the U.S.

From our Space and Defense R&D Center for Excellence in Cockeysville, MD, to our Valdese, NC plant, the largest provider of Primary Lithium batteries for the military, Saft's battery systems are proudly produced in the U.S. From cells to batteries, to the integrated systems that support them, Saft provides a total solution for your energy needs.

## Enabling hybrid vehicle technology now

Hybrid technology is essential for mission success. Where missions and lives are at stake, you need systems designed specifically for the combat environment. Saft's batteries can support the future requirements of high-power systems including, hybrid propulsion, silent watch operations, exportable powers and directed energy. Saft makes the hybrid possibilities of tomorrow, a reality today.



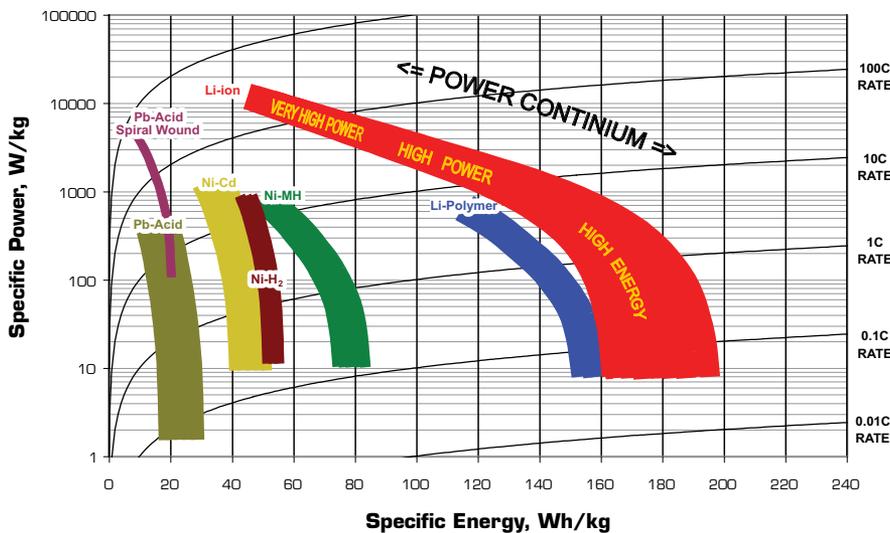
# Powering the systems of tomorrow

## Proven performance for U.S. military applications

Saft has also been selected to provide the battery for Lockheed Martin's F-35 Joint Strike Fighter, as well as Raytheon's Active Denial System. Regardless of the architecture, Saft has the technology and manufacturing know-how to provide the right battery for your energy storage needs.



**SPECIFIC POWER/SPECIFIC ENERGY OF RECHARGEABLE CELLS**



## Technology leaders

With over 10 years of experience researching and developing Li-ion battery technology, Saft has developed the right technology that will enable a seamless transition to hybrid electric combat vehicles. Li-ion technology provides lighter weight and faster charge times, both crucial for hybrid vehicle performance. Saft's research and development activities are on-going and we continue to improve our battery technologies.

## Partners in your success

Saft is committed to developing partnerships with its customers

so that we can provide the integrated systems to support your missions. We pride ourselves on the close working relationships we've developed with our military partners, which have enabled us to deliver superior products and services that often exceed their requirements and expectations.

## Whatever your mission

Saft's Li-ion batteries provide the power necessary to support hybrid combat vehicles, with the reliability required for mission success. Our Li-ion batteries surpass the competition with more energy per volume and the longest life system.

## Saft batteries are:

- Light weight
- Rugged
- Compact
- Efficient
- Transportable
- Long-life
- High-power
- Require no maintenance



## About Saft

Saft is a world specialist in the design and manufacture of high-tech batteries for professional, industrial, space and military uses. For over 100 years, Saft has been a leader in providing its chosen markets with cutting edge technology for energy sources. Saft is the world leader in the design and manufacture of high-performance primary lithium and rechargeable Li-ion batteries for the electronics, defense and space industries. With world class manufacturing, cutting edge research and industrial cooperation, Saft provides advanced solutions for a multitude of energy storage applications.

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