

NEWSPACE MARKET · COMPANY PROFILE



saft

Saft

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PRODUCTS

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Saft

Saft is a world-leading designer and manufacturer of advanced technology batteries for the space, defence, aviation, transportation, and industrial sectors. Founded in 1918 and headquartered in Paris, France, Saft manufactures its space-qualified lithium-ion cells in Bordeaux and assembles satellite battery packs in Poitiers, making it one of the few vertically integrated space battery suppliers in the world. Saft's space division has powered more than 165 satellites across all major orbit regimes — GEO, MEO, and LEO — and has decades of proven flight heritage. The company's VES-series lithium-ion cells are the industry benchmark for high-power GEO telecommunication satellites, medium-earth-orbit navigation constellations, and high-density LEO observation and communications platforms. Saft batteries have supported missions ranging from ESA's SoHO spacecraft to Iridium NEXT and numerous Lockheed Martin commercial and military satellites. The company's space batteries are developed in close collaboration with CNES, ESA, NASA, and leading prime satellite integrators. Saft continuously advances its cell chemistry — from its heritage NCA-based VES16 platform through to next-generation lithium-ion technologies — targeting higher specific energy, longer cycle life, and reduced system mass. A subsidiary of TotalEnergies since 2004, Saft operates globally with manufacturing and engineering centres in France, the United States, and Germany, and provides custom battery solutions for the most demanding space environments.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

Product catalogue



SAFT
4S1P VES16 Battery

Compact 64 Wh / 4.5 Ah space lithium-ion battery for microsatellites and nanosatellites in LEO and small GEO orbits.

Chemistry	Li-ion
Cell Configuration	4S1P
Capacity	4.5 Ah
Nominal Energy	64 Wh
Pack Voltage Range	13.2 – 16.4 V
Mass	0.7 kg
Length	90.5 mm

price on request



SAFT
MP & VL Batteries for Launchers

Launcher-qualified prismatic MP and cylindrical VL rechargeable lithium-ion batteries for space launch vehicles.

Chemistry	Li-ion
Cell Formats	Prismatic (MP), Cylindrical (VL)
VL Power Variants	Power (P), Very High Power (U)
Charge Temperature Range	-20 to +60°C
Discharge Temperature Range	-50 to +60°C
Application	Space launchers

price on request

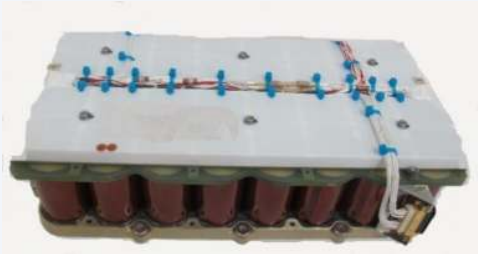


SAFT
VES16 11S16P Battery

High-capacity 11,264 Wh / 288 Ah space lithium-ion battery for large satellite platforms.

Chemistry	Li-ion
Cell Configuration	11S16P
Capacity	288 Ah
Nominal Energy	11,264 Wh
Pack Voltage Range	29.7 – 45.1 V
Mass	28.8 kg
Length	440 mm

price on request

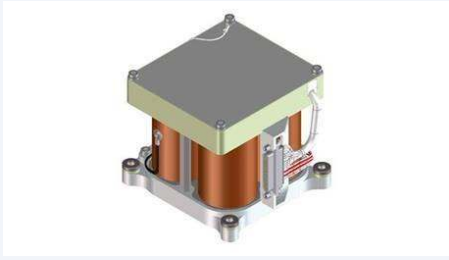


SAFT
VES16 8S4P Battery

512 Wh / 18 Ah space lithium-ion battery in 8-series 4-parallel configuration for LEO and small GEO satellites.

Chemistry	Li-ion
Cell Configuration	8S4P
Capacity	18 Ah
Nominal Energy	512 Wh
Pack Voltage Range	25.0 – 32.8 V
Mass	5 kg
Length	308 mm

price on request



SAFT

VES16 Cell

Space-qualified D-size 16 Wh lithium-ion cell designed for LEO and GEO satellite applications.

Chemistry	Li-ion NCA
Nominal Capacity	4.5 Ah
Nominal Energy	16 Wh
Specific Energy	> 155 Wh/kg
Voltage Range	2.7 – 4.1 V
Mass	≤ 112 g
Diameter	33 mm

price on request



SAFT

VL51ES Li-Ion Battery for GEO and MEO

High-power space battery based on Saft VL51ES Li-ion cells, specifically designed for GEO and MEO spacecraft applications requiring sustained high discharge rates.

Cell type	VL51ES Li-ion cylindrical cell
Application	GEO and MEO spacecraft
Performance type	High power
Mission profile	Up to 72-min eclipses at GEO; MEO radiation environment
Design lifetime	> 15 years (GEO class)

price on request

Contact Saft

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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