



Saft's IoT Smart Selector helps developers find the best battery to energize their application

- New online tool takes users through seven steps to find their ideal IoT battery from Saft's range of primary lithium chemistries.
- Early battery selection is a crucial step in ensuring the success of an IoT project in terms of performance, reliability, life and total cost of ownership.

Paris, September 17th 2020 – Saft has developed a new Smart Battery Selector online tool that enables developers to evaluate the best battery choice to energize their Internet of things (IoT) applications. Developers can use the tool at the earliest stage of their design project by going through a seven-step process that generates a recommendation for primary lithium batteries that best meet their objectives in terms of performance, reliability, life and cost.

“Selecting the optimum battery is one of the most crucial factors for the success of an IoT project. Yet our discussions with developers have indicated that the choice of the battery is often left to a later project stage. This might lead to selecting a battery that has to fit within a pre-determined installation footprint, and might not fully meet the end user's expectations,” says Cécile Joannin, IoT Market Manager at Saft. *“Our Smart Selector is designed to eliminate that risk as soon as the project starts. Now developers can rely on Saft's experience in IoT applications to select the best battery at the start of their project.”*

Battery selection for an IoT project is not just a question of meeting performance requirements in terms of voltage, steady state current and pulse currents. The device must also meet its target for total cost of ownership (TCO). Therefore, the battery must deliver its performance under the specified operating conditions, such as extreme temperatures, and for the projected life of the device. By using the Smart Battery Selector, developers can find the batteries that are the best match for their application.

The recommendations provided by the online tool are based on statistics, historical data and experience from millions of field deployments of Saft's two main primary lithium battery chemistries used in IoT devices: lithium-manganese dioxide (Li-MnO₂ – LM/M ranges) and lithium-thionyl chloride (Li-SOCl₂ - LS, LSH and LSP ranges).

Once the recommendation has been received it is possible to edit the application parameters such as the frequency of data transmission, the expected lifetime or the communication protocol to see in real time how they influence the choice of battery.

While the Smart Battery selector is designed specifically to help developers explore their choices at an early project stage, Saft's application engineers are available to offer expert advice at any stage of the design process. This includes recommending a personalized battery solution and an accurate lifetime calculation for any IoT device.

The online tool can be accessed by following this link: <https://saft4u.saftbatteries.com/en/iot/simulator>

About Saft

Saft specializes in advanced technology battery solutions for industry, from the design and development to the production, customization and service provision. For 100 years, Saft's longer-lasting batteries and systems have provided critical safety applications, back-up power and propulsion for our customers. Our innovative, safe and reliable technology delivers high performance on land, at sea, in the air and in space. Saft is powering industry and smarter cities, while providing critical back-up functionality in remote and harsh environments from the Arctic Circle to the Sahara Desert. Saft is a wholly-owned subsidiary of Total, a leading international oil and gas company and a major player in low-carbon energies.

We energize the world. www.saftbatteries.com



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