

# Soft batteries for security

Powering high performance security for longer



# The right partner to cut the power cord with confidence



The smart city concept has huge potential in every area of life from transport and infrastructure, government and law enforcement to education, healthcare, industry, commerce, hospitality, events and entertainment. However, greater efficiencies can only be achieved at the same time as protecting people, assets and traffic.

Wireless alarms, sirens, access controllers, remote sensors, detectors and cameras form the backbone of security systems that can be deployable, mobile or fixed. These need reliable power, whether the priority is loss prevention, access control or crowd surveillance.

Continuous, unbroken operation of security systems depends on the reliability of high-performance batteries in tough and unforgiving urban and industrial environments.

In the field, temperatures can range from -40°C to +85°C, with the possibility of direct sun exposure and high humidity.

These factors can shorten the life of a standard battery, risking continuity of operation and creating a logistical challenge for replacement.

Operators can cut the power cord with confidence with Saft's industrial-grade lithium primary (non-rechargeable) or Li-ion (rechargeable) cells and batteries. They have demonstrated high performance and long life in environments as diverse as the ocean floor, space exploration, urban centres and remote installations. In addition, their small size and light weight are important, allowing manufacturers to scale down the size of their equipment.

ACCESS CONTROLLERS  
BORDER SECURITY

ACCESS CONTROL

SIRENS

DETECTORS

ALARMS

CAMERAS

REMOTE SENSORS

COUNTER-SURVEILLANCE

LOSS PREVENTION



5 to 20 years lifetime  
for primary batteries



600 to 2500<sup>+</sup> cycles  
for rechargeable batteries

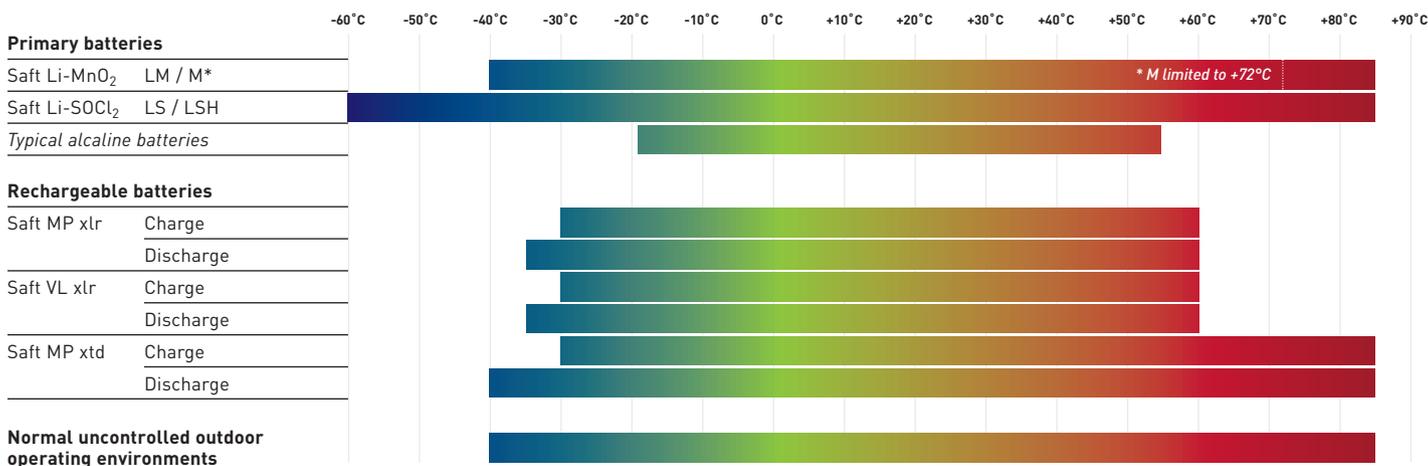


40 years experience  
in high-energy lithium  
cells and batteries

## Batteries for always-on security

Saft is providing design and technical support to ensure the highest reliability of your system.

	LM and M	LS and LSH	MP and small VL
<b>Type</b>	Primary	Primary	Rechargeable
<b>Chemistry</b>	Li-MnO <sub>2</sub>	Li-SOCl <sub>2</sub>	Li-ion
<b>Cell size</b>	1/3 A to DD	½ AA to D	MP are prismatic and VL are cylindrical
<b>Voltage</b>	3.0 V	3.6 V	3.6 V to 3.65 V
<b>Capacity</b>	0.5 Ah to 33.0 Ah	1.2 Ah to 17.0 Ah	2.6 Ah to 6.8 Ah
<b>Additional performance</b>	Some cell types are ATEX certified equipment or tested as ATEX compliant components	Pulse discharge rate up to 4 A Some cell types are tested as ATEX compliant components	Some cell types are tested as ATEX compliant components



High and stable operating voltage  
Excellent reliability over extended operating life  
Wide temperature range  
Compact and lightweight

# Saft is committed to the highest standards of environmental stewardship

As part of this environmental commitment, Saft prioritises the use of recycled raw materials over virgin raw materials in all manufacturing processes. We also strive, year on year, to reduce air and water emissions from our plants, as well as minimizing water usage, reducing consumption of fossil energy consumption and associated CO<sub>2</sub> emissions, and ensuring that all our customers have access to recycling solutions for their

spent batteries. To facilitate the end-of-life collection and recycling of industrial batteries, including our nickel & lithium-based technologies, Saft has developed well-established partnerships with collection companies in most EU countries, in North America and in many other countries worldwide. This collection network receives spent batteries from our customers and dispatches them to fully approved recycling facilities, in compliance

with the laws governing trans-boundary waste shipments. This collection network is currently undergoing minor adaptations to meet the requirements of the EU batteries directive. A list of our battery collection points is available on our web site. In other countries, Saft will assist anyone using our batteries in finding environmentally sound recycling solutions. Please contact your sales representative for further information.



**Saft**  
26 Quai Charles Pasqua  
92300 Levallois-Perret  
Tel : +33 1 58 63 16 00  
[www.saftbatteries.com](http://www.saftbatteries.com)  
[lithiumsales.fr@saftbatteries.com](mailto:lithiumsales.fr@saftbatteries.com)

Document N° 31178-2-0319  
Edition: March 2019

Data in this document is subject to change without notice and becomes contractual only after written confirmation.

Photo credits: Saft, AdobeStock – R821  
© Saft – RCS Bobigny B 383 703 873

**SAFT**  
a company of  
