



Li-Ion Battery UPS

Li-Ion UPS technology

A compact innovative
power protection solution



your energy
our expertise



 **socomec**
Innovative Power Solutions

Increased power storage **availability** and reduced **Total Cost of Ownership**

Ensuring permanent power supply to electrical infrastructure for business continuity whilst reducing the Total Cost of Ownership is a main concern for data centres. **LI-ION BATTERY UPS – Socomec's latest innovative UPS solution – provides reliable back-up power availability in a reduced footprint, with extended life time and reduced maintenance.**



Increased availability

The uptime of mission critical applications is a major concern for IT or data centre managers. Based on the latest technologies, Socomec LI-ION BATTERY UPS provides higher power density and faster recharges than lead-acid systems. To maximise the power system's availability and reduce the consequences of spurious battery failure, LI-ION BATTERY UPS is equipped with an embedded interactive control system that provides accurate and individual cell monitoring.

Higher value space, reduced TCO

Thanks to their high energy density, LI-ION BATTERY UPS systems save space and are lighter than lead-acid battery UPS. LI-ION BATTERY UPS allows a more effective and flexible use of the space, leaving free space for additional IT equipment or additional rooms to accommodate future power upgrades. Less sensitive to higher temperatures, LI-ION BATTERY UPS requires less cooling and hence reduces energy costs.

The solution for

- > Data centres
- > IT infrastructures
- > Applications requiring a back-up time up to 15 minutes

Why choose Socomec?

- **Independent manufacturer**
Founded in 1922, 3000+ employees, 30 subsidiaries across five continents.
- **Specialist**
Solutions for power availability, control, safety and energy efficiency.
- **Expert**
Manufacturer of energy conversion solutions for over 40 years.
- **At your service**
A global network of consulting, inspection and maintenance teams.
- **Flexible**
Adapted solutions to suit the specific needs of our customers.
- **Innovative**
Nearly 10 % of the sales turnover is dedicated to R&D.

The **advantages** of the LI-ION BATTERY UPS solution



Maximum availability

- Very fast UPS battery recharge.
- Ensured scalability for power upgrades or redundancy.
- Reduced maintenance of battery components.



Extreme reliability

- Optimum performance in all critical operating conditions.
- Interactive UPS battery control.
- Embedded cell-to-cell monitoring.
- Wide operating temperature range (0 °C to +40 °C).

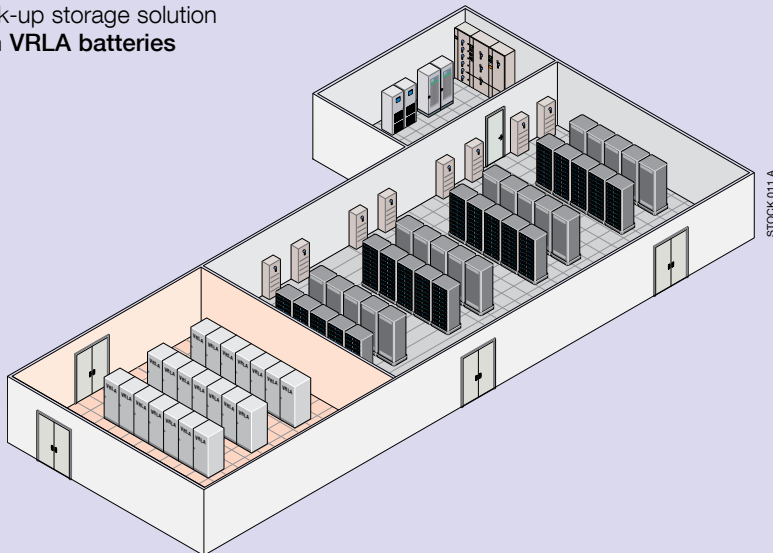


Cost-effective solution

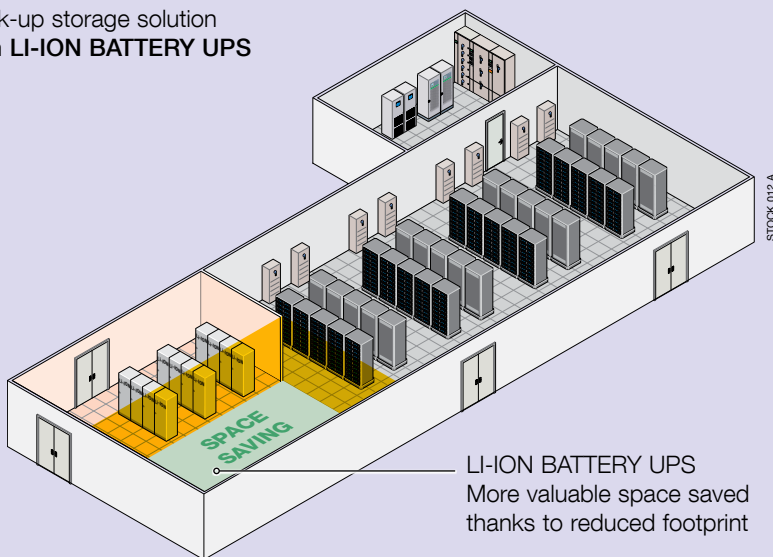
- High power density in a reduced footprint.
- 15+ years' expected service life.
- Higher cycling capacity: 10 times more than VRLA Battery UPS
- Fewer cooling requirements.

LI-ION BATTERY UPS: footprint comparison with VRLA batteries

Back-up storage solution with VRLA batteries



Back-up storage solution with LI-ION BATTERY UPS



LI-ION BATTERY UPS
More valuable space saved thanks to reduced footprint

UPS interaction

The ultimate solution for fuller control over system availability.

The Socomec LI-ION BATTERY UPS solution includes an interactive control system to check and manage all the Li-Ion cells' parameters (i.e. temperature, voltage, current, charging status, etc.) and to dynamically adapt how the UPS operates depending on the status of the Li-Ion battery.

The UPS interaction guarantees the most reliable performance and improves the system's availability by:

- ensuring a proper control of the Li-Ion battery,
- preventing any irreversible overcharge failure,
- performing automatic corrective actions in case of any critical conditions that can affect battery performance.

High sustainability

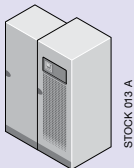
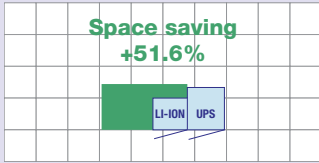
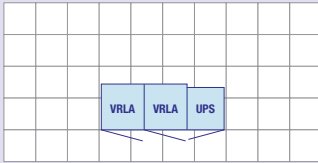
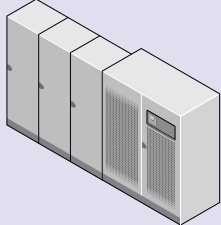
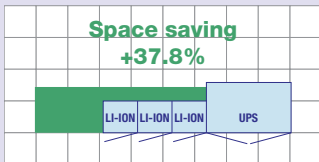
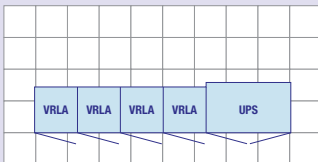
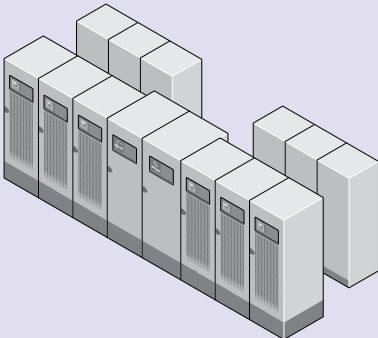
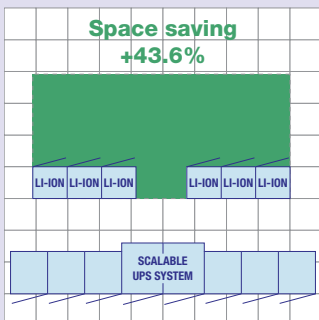
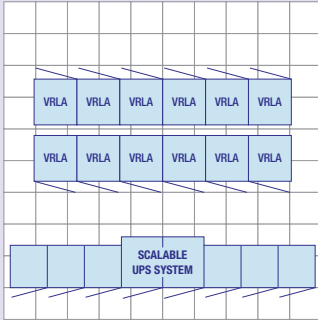
Socomec is committed to developing solutions that reduce the environmental impact from the design stage and throughout their entire life cycle.

The LI-ION BATTERY UPS energy system is the latest solution designed for helping environmental sustainability:

- no toxic materials,
- REACH/RoHS compliant materials,
- no gas emissions,
- no risk of acid leakage.

Space saving solution

LI-ION BATTERY UPS: footprint comparison vs. Lead-Acid batteries

LI-ION BATTERY UPS Examples of configurations ⁽¹⁾	FOOTPRINT	
	LI-ION BATTERY UPS	VRLA BATTERY
 <p>Power: 200 kVA Back-up time: 8 min</p>	 <p>Footprint: 0.95 m²</p>	 <p>Footprint: 1.96 m²</p>
 <p>Power: 500 kVA Back-up time: 9 min</p>	 <p>Footprint: 2.69 m²</p>	 <p>Footprint: 4.32 m²</p>
 <p>Power: 1.2 MVA Back-up time: 8 min</p>	 <p>Footprint: 7.87 m²</p>	 <p>Footprint: 13.93 m²</p>

(1) Other configurations: please contact us.

HEAD OFFICE

SOCOMEK GROUP

SAS SOCOMEK capital 10 686 000 €
R.C.S. Strasbourg B 548 500 149
B.P. 60010 - 1, rue de Westhouse
F-67235 Benfeld Cedex - FRANCE

SALES, MARKETING AND SERVICE MANAGEMENT

SOCOMEK Paris

95, rue Pierre Grange
F-94132 Fontenay-sous-Bois Cedex
FRANCE
Tel. +33 1 45 14 63 90
Fax +33 1 48 77 31 12
dcm.ups.fr@socomec.com

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