

A large, circular graphic with a blue-to-orange gradient, resembling a stylized sun or a glowing ring. The text "FIAMM ENERGY" is centered within this circle. "FIAMM" is in red and "ENERGY" is in black, both in a bold, sans-serif font.

FIAMM ENERGY

ABOUT FIAMM



1942

- Establishment of **FIAMM (Fabbrica Italiana Accumulatori Motocarri Montecchio, i.e. Italian Factory of Tricar Batteries in Montecchio)**.
- The production focuses on electric traction and automotive starter batteries.

1950

- FIAMM attends motor shows together with the major car manufacturers. A FIAMM battery is fitted in **the Ferrari that wins the Mille Miglia race in 1950**. The first **OE** supply for a major brand is for Innocenti's Lambretta.

1970

- Production of batteries for motorbikes.
- FIAMM becomes the original equipment supplier for the most important European car manufacturers.
- Sip and Enel among the customers in the stationary batteries field.

1980

- **Export of stationary batteries to the USA**
- Entry in the two main European markets with FIAMM Germany and FIAMM France.
- Success in the world of sports in **Rally, F1, Formula Indy, Paris Dakar and Offshore**.

1990

- The Company appoints a new generation of professional management.

2000

- **Opening of new plants abroad.**
- Acquisition of many battery distributors across Europe.
- Significant investments in technology.

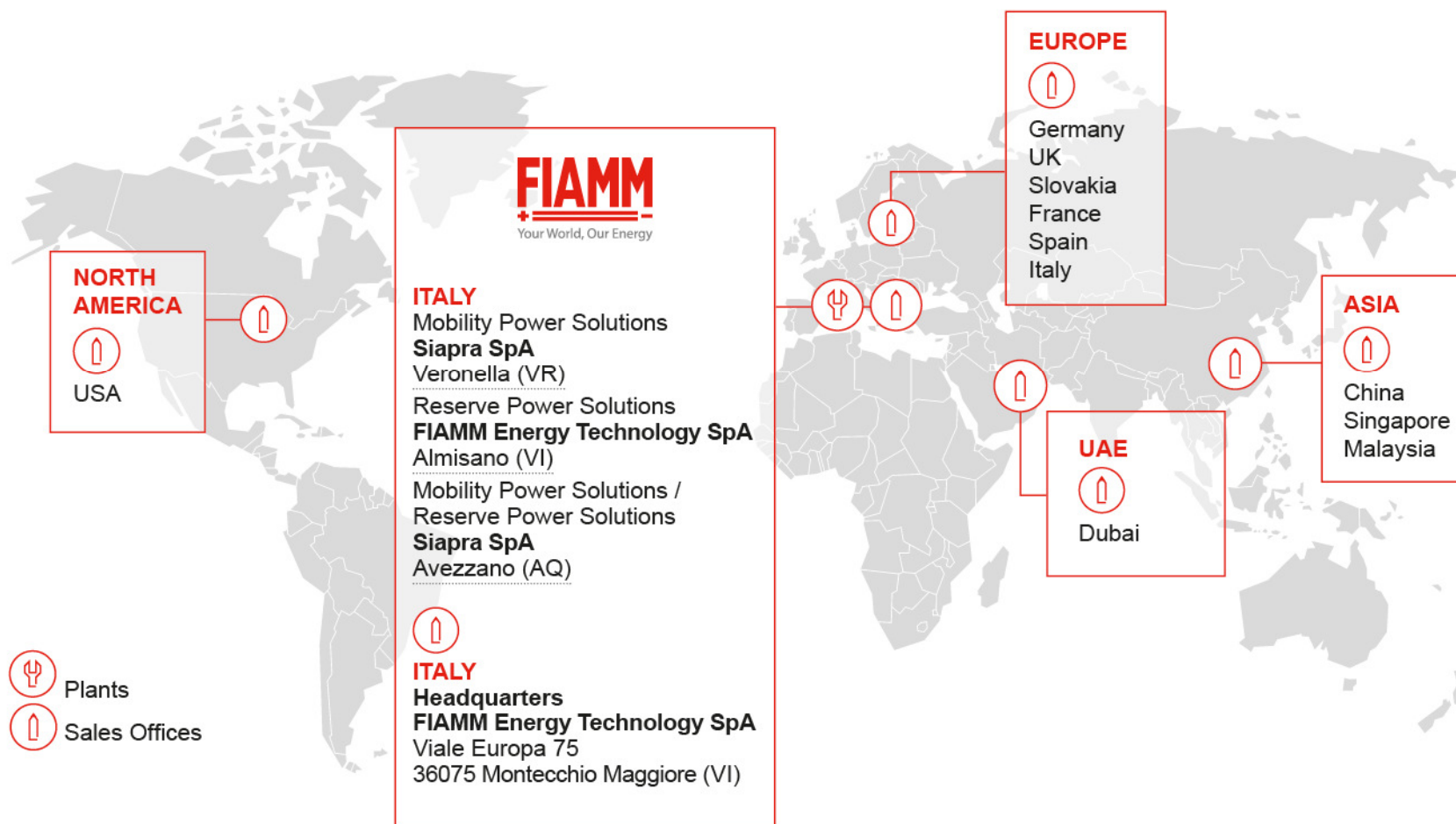
2017

- Acquisition of 51% of the shares of FIAMM Energy Technology S.p.A. by **Hitachi Chemical**.

2020

- Showa Denko acquires 100% of Hitachi Chemical's shares which from October 1st changes its name to **Showa Denko Materials Co.**

FIAMM IN THE WORLD



RESERVE POWER SOLUTIONS/1



FIAMM Reserve Power Solutions is an internationally recognised leader in the development and supply of a wide range of industrial batteries and energy storage systems.

We design and manufacture backup power solutions to guarantee the continuity of the energy supply to the critical applications when the main power is cut off. We are proud to supply many world's leading companies.



RESERVE POWER SOLUTIONS/2

Main application fields:

- telecommunications
- data centres
- railways
- power plants
- petrochemical plants
- energy storage from renewable sources



RESERVE POWER SOLUTIONS/3



With over 70 years of experience, FIAMM Reserve Power Solutions diversifies its offer thanks to in-depth technical knowledge and understanding of how products are used in the different applications.

We are working with our partners and customers for the development of next generation solutions that will meet the vital requirements for the future of our planet.



RESERVE POWER SOLUTIONS: KEY CLIENTS



- ABB
- AEG
- AT&T
- DEUTSCHE TELEKOM
- EATON
- EDF
- ELTEK
- ENEL
- ERICSSON
- NOKIA

- RS COMPONENT
- SCHNEIDER ELECTRIC
- SIEMENS
- TELEFONICA
- TELECOM ITALIA
- VERTIV
- VODAFONE



RESERVE POWER SOLUTION: APPLICATIONS



Telecommunication



UPS & Data Center



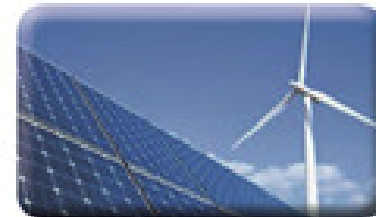
Utilities & Industry



**Security Systems
& Emergency Lighting**



Railways



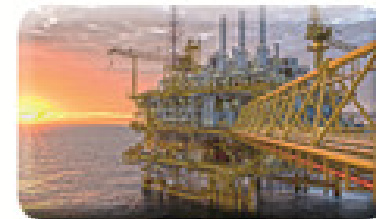
Renewable Energy



Leisure



Light Traction



Oil & Gas

TECHNOLOGIES AND PRODUCT FAMILIES

AGM



GEL



FLOODED



ACCESSORIES



APPLICATIONS AND PRODUCT FAMILIES



Renewable
Energy



Light
Traction



Leisure



Security System
Emerg. Lighting



UPS & Data
Centre



Utilities &
Industry



Oil & Gas



Railway



Telecom



FLB RANGE

APPLICATIONS



Security System &
Emergency Lighting

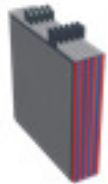


UPS & Data
Centre



- VRLA - AGM design
- 10-12 year long life
- Top terminal and front terminal design
- High Energy Density
- Capacities from 100W/cell to 700W/cell at 15 min rate
- Specially designed for UPS and High Rate applications
- Flame retardant plastic UL94 V0

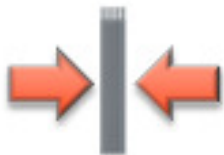
FLB RANGE: TECHNICAL FEATURES



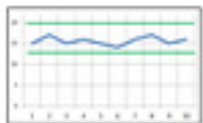
More plate surface
High plate numbers increases current supply



Radial grid design
This feature decrease electrical resistance so corrosion is limited



Group compression
High plategroup compression means lower electrical resistance, limiting floating currents



Continuous casting / pasting negative plate
Very high process reliability and plate parameters stability



Optimized *COS technology
Positive and negative lead pots are managed with different temperatures in order to guarantee a perfect plates melting

* Casting On Strap

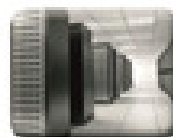
SSLA RANGE



FG



Security System &
Emergency Lighting



UPS & Data
Centre

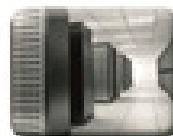
- From 1,2Ah to 65Ah
- 5 years design life



FGH



Security System &
Emergency Lighting

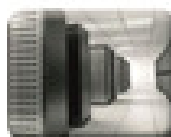


UPS & Data
Centre

- From 23W to 65W *
- 5 years design life



FGHL



UPS & Data
Centre

- From 22W to 48W *
- 10 years design life



FGC



Light
Traction



Leisure

- From 12 Ah to 42Ah
- 5 years design life

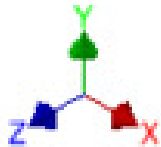
*W/cell1,67Vpc 25°C 15min rate

SSLA RANGE: TECHNICAL FEATURES



Fast on terminals

Copper terminals permit a quick installation, furthermore standard dimensions allow an easy replacement



Standard layout

Standard footprint follow common dimensions used market so replacements have no impact

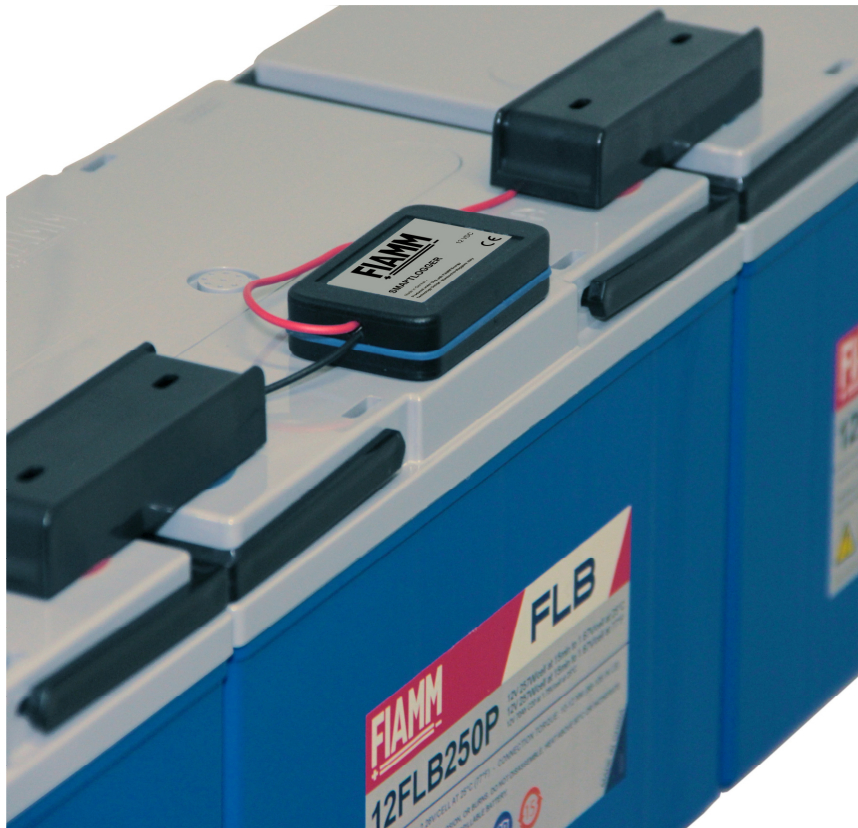


Wide range coverage

The SSLA range are ideal for any application case: 5 years design life standard, high rate, 10 years design life + high rate, cyclic application. Battery size is from 1,2Ah to 65Ah

ACCESSORIES

FIAMM SMARTLOGGER



MAIN BENEFITS & ADVANTAGES

- Voltage and temperature measurements
- View and download battery performance data via mobile app or computer
- Alarm signals to when defined voltage and temperature threshold are exceeded
- Very low energy consumption - will not affect battery performance
- Designed for retrofitting - possibility to reset the device if the battery is replaced

OUTDOOR CABINETS



MAIN BENEFITS & ADVANTAGES

- Protect batteries and preserve their health
- Robust and stable design thanks to metal poles
- Wide environmental temperature coverage
- Unified design to offer flexibility on each configuration
- Air conditioning and heater provided

INDOOR CABINETS



MAIN BENEFITS & ADVANTAGES

- Protect batteries
- Roboust and stable design thanks to metal proles
- External frame is welded to guarantee the stability
- Modular / scalable
- Air holes for ventilation
- Compact design

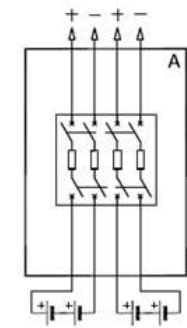
RACKS



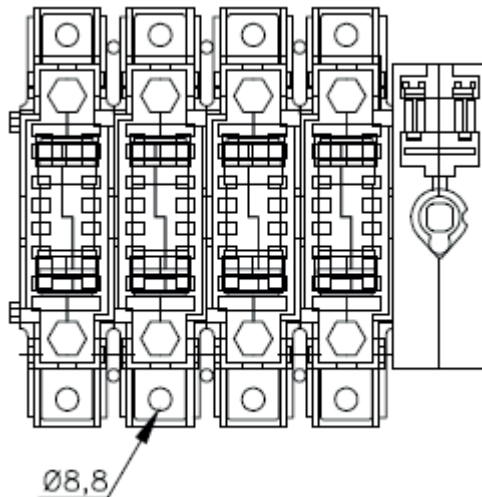
MAIN BENEFITS & ADVANTAGES

- High mechanical resistance
- Anti-siesmic design on request
- Anti-acid coating to preserve the integrity
- Modular
- Allow the best cells positioning: it means easy installation and quick maintenance on cells

PROTECTION BOX



BATTERIES ≤ 220Vdc each



MAIN BENEFITS & ADVANTAGES

- Protect batteries from short circuits
- Robust and stable design thanks to metal proles
- Can be placed on wall to save space
- IP 65 (no cable glands is supplied)
- Compact design
- Fuses are included



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