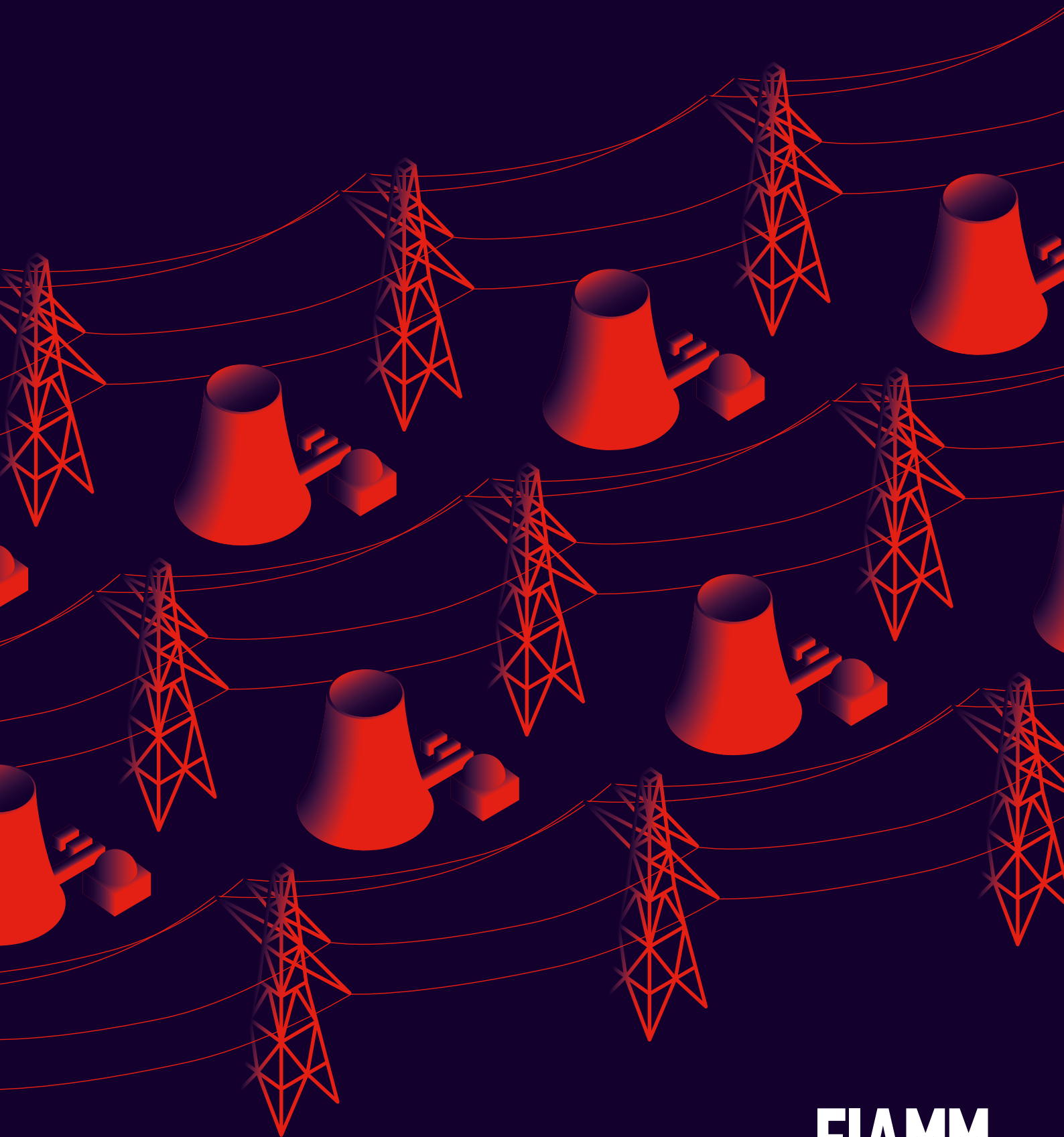


# Critical back-up power

Industry & utilities



**FIAMM**  
+            -



Headquarters

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# FIAMM

## since 1942

FIAMM Energy Technology has been making batteries since 1942. We were established as a private company which set out to supply a national need for batteries to power vehicles. Since then, we have grown to be and become recognised international business engaged in the development, production and distribution of batteries and accumulators for industrial and mobile applications.

FIAMM Reserve Power Solutions offers a broad range of stationary batteries, designed to guarantee uninterrupted power supply in a myriad of fields.

As our business has expanded, so has our technical knowledge and understanding of how products can benefit customers' different needs. The result is a family of products and solutions to fit many different applications. We are now proud to supply many of the world's leading companies for telecommunications, data centers, railways, power plants, petrochemical plants and energy storage from renewable sources.

Batteries and energy storage solutions are a key enabler towards the global transition from fossil fuels to a cleaner and renewable energy. Our mission is to work with our partners and customers for the continued development of next generation solutions to meet the vital energy requirements for the future of our world.

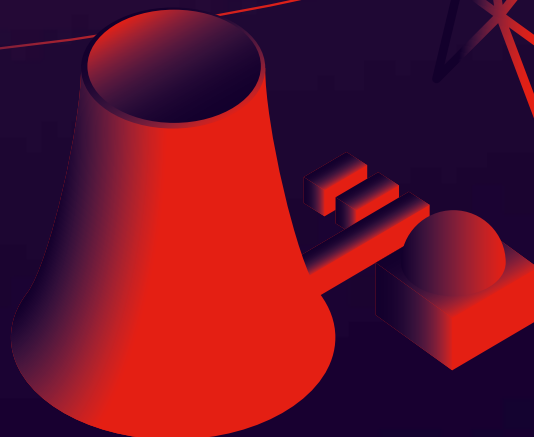


# Batteries for oil & gas, power generation and industry

Industry and power generation are the engine of the world. Power generation creates vital energy and industry transforms materials into products.

Today, both of these sectors are upgrading to a new era; of cleaner power and increased automated systems, robotics and digitisation.

Energy is at the heart of this revolution. It is the force that relies on power to control and produce vital products and services. It is the force that powers our personal and work lives. All of these needs are complex, all of them are connected and even a momentary loss of power, no matter how brief, can lead to major downtimes in industry and an interruption in our personal lives.

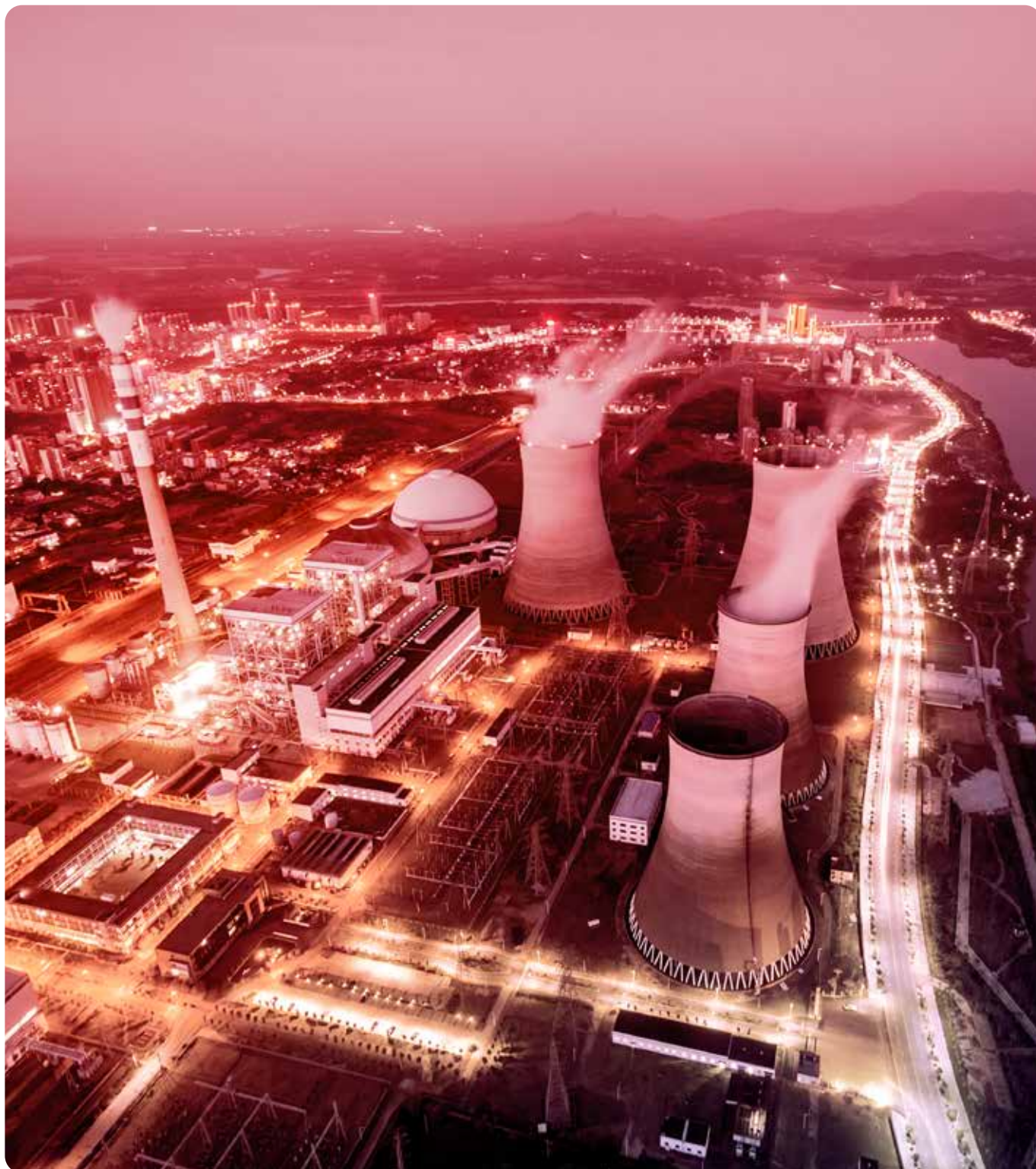


FIAMM supports industry with critical back-up batteries. We support power generating plants, oil platforms, manufacturing processes and much more. Like all of our products we support our customers with advice at every stage, from early pre-development planning of a systems to ongoing support long after our products have been installed.

To meet this growing complexity of customer needs we have developed a complete range of batteries

solutions to meet all applications. Our products include flooded cells which provide extremely long life, to rugged GEL batteries which combine long life and tolerance to higher temperatures. For maintenance free solutions we have a family of batteries to meet specific application needs from cyclic, temperature and much more.

Like all FIAMM products, they are designed for safe operation and are 99% recyclable.







# FIAMM industry battery solutions

## Designed for life

All our products are designed and tested to ensure the best performance for the whole life.

## Best choice of technology

Our wide range of proven lead-acid battery technologies provide customers with the best choice for each application. AGM & Gel are maintenance free over life, while flooded technology cells have life of up to 25 years.



# We fit every need

Our batteries can be used in many different applications and in countless configurations to meet a wide variety of needs.

# Safety first

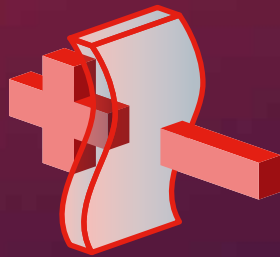
Flame retardant, high quality ABS plastic casings ensure maximum safety.





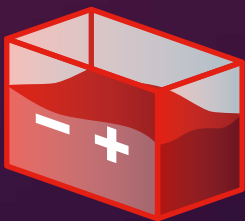
## AGM technology

AGM (Absorbed Glass Mat) batteries offer improved performance with faster charging, longer life and safer operation. These batteries are constructed with an absorbent glass-mat separator between the negative and positive plates. Special safety valves are fitted to minimise electrolyte dry-out over the life of the battery.



## GEL technology

GEL batteries use a jellified electrolyte between positive and negative plates to minimise dry out of the cell. Batteries with a GEL internal structure are very versatile. They offer excellent long life and perform well in a wide range of temperature conditions.



## Flooded technology

Batteries with a flooded electrolyte are extremely robust and have the longest life of lead acid accumulators. These cells are manufactured with clear containers showing electrolyte levels to allow periodic topping up.



## Flame retardant casing

Most FIAMM batteries are made with flame retardant plastic to provide an extra level of safety and customer assurance. This material offers maximum strength over life. See our product data sheet for more details concerning each range.

**99%**  
**RECY**  
**CLABLE**

FIAMM lead acid batteries are 99% recyclable. Our products are perfect for the circular economy. Lead recovered from our used batteries can be reprocess repeatedly without any loss on performance.

**LONG**  
**DESIGN**  
**LIFE**

FIAMM batteries, with a very long life classification, are designed for more than 12 years operation in accordance with the Eurobat Guide.



# FIT

**Very long-life, front terminal AGM battery**  
12 plus year very long design life, in flame retardant  
ABS cases



# SLA

**Very long-life, top terminal AGM battery**  
12 plus year very long design life, in flame retardant  
ABS cases available in 2V, 6V and 12V models



# SD SDH

**High-Rate Flooded Cells**  
15 years design life flat-plate flooded cells for high-  
rate demanding application



# SMG

## **OPzV Maintenance-Free, Gel cell**

18 years design life GEL battery; perfect for demanding applications



# LM

## **OPzS Flooded Cell**

20 years design life battery; perfect for demanding applications



# SGL SGH

## **GRoE Flooded Cell**

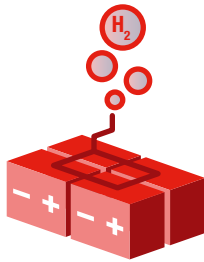
Our longest life lead acid battery designed to operate for 25 years without loss of performance

# Solutions & accessories



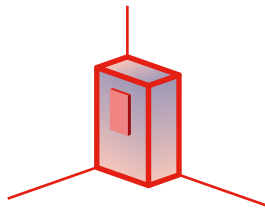
## Venting plugs

FIAMM offers a wide range of venting plugs for flooded batteries, each designed for a specific need. As an example, our recombination plug, with its unique design to minimise water consumption during battery life.



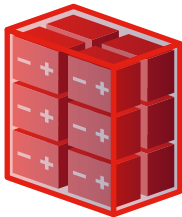
## RVS

The Remote Venting System (RVS) is a specially designed pipe system that exhaust hydrogen gases given off during the charging phase. The RVS system allows gases to be passed safely outside of the battery room. This solution can eliminate the need for internal to minimise and lower energy consumption.



## Indoor cabinets

Batteries often need to be enclosed inside buildings and other structures. We offer a range of solutions to keep your batteries safe and help optimize costly real estate space. Our solutions cover many needs including seismic protection.



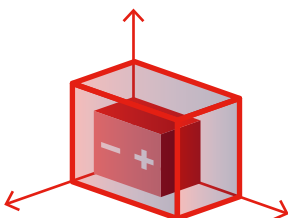
## Racks

We make a range of special rack solutions which are corrosion-proof and can be easily assembled and dismantled. A certified seismic version is available upon request.



## Protection boxes

An electrical protection solution including fuses and breakers, designed in accordance with application voltages and currents to protect your battery system.



## Battery sizing software

The FIAMM sizing software tool allows customers to select the most appropriate battery solution for their application. Using our purpose-designed software a customer can insert key parameters including electrical performance, temperature, operating life, layout and then choose from a number of variable solutions.



# FIAMM

