

# Saft's Rail Battery Systems

## Simplified solution for onboard battery integration and management

Rail battery systems ensure onboard backup batteries deliver excellent performance for critical and emergency backup, engine starting and supplementary traction power against general physical and electrical abuse such as heavy shocks and vibration, and wide temperature fluctuations.

### Saft's rail battery and beyond

With over 20,000 rail battery systems installed worldwide, Saft has consolidated and engineered a full range of solutions, from simple replacement to one-step turnkey solution to help customers to install, integrate and manage battery systems.

#### ▶ Safety

Enduring battery systems with heat resistance and fully compliant to fire and smoke requirements EN45545-3 E15.

#### ▶ Support

Each project is assigned with dedicated project team from design to integration to maintenance.

#### ▶ Customization

A variety of designs, mounting mechanisms and cover materials to choose from.

#### ▶ Experience

A full track record in rail battery systems installed worldwide as Saft is the top of mind for major OEMs.



#### Electrical

- Electrical interface
- Charger/converter
- Fuses, switches, etc.

#### Energy

- Ni-Cd battery
- Integrated water filling system
- Temperature sensor

#### Mechanical

- Fast and easy integration with movable tray
- Compatible with train environment

## Battery systems to meet changing industry needs

9 standard designs in 3 concepts and in 3 fixing mechanisms.



**Light**

In existing enclosure



**Side**

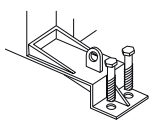
In own enclosure, fixed to equipment frame



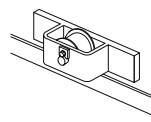
**Across**

In own enclosure, fixed to equipment frame

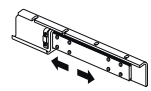
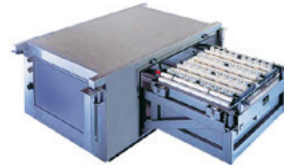
**Mounting on the roof or under the car body**



**Fix**  
Assembly bolted on the roof or under the car body



**Roll**  
With rollers for accessing the tray on folding arms



**Slide**  
With slides for accessing the tray on telescopic arms



\*Flame arrester is strongly recommended for all new projects for ventilation and hydrogen explosion safety.

### Dedicated project teams from concept, manufacture to maintenance

Holistic support from Saft's local experts throughout your battery integration journey with efficiency, experience and flexibility:

- Design and Development
- Project Management
- Qualification
- Logistics

Your battery is built to dimensions that exactly meet your specifications, and to reduce the overall size and weight to improve energy-efficiency and increase space for passengers.



### Saft

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