SAFT MRX Battery

Railways Onboard Batteries for back-up utilization

Saft's MRX battery offers fail-safe security for onboard electrical systems in a high compact, fully integrated energy backup package for up to 15 years.
The battery provides a reliable back up power source for vital on-board services such as lighting, data and communications systems, ventilation and door opening functions, as well as the safety-critical demands of electromagnetic braking applications. During its use, the battery is always connected to the network via the train catenary and on-board convertors (floating mode), its function is to provide energy in case the grids fails or the catenary breaks.
The battery is resistant to extreme temperatures of -50°C to +70°C (-30°C ~ +50°C in operation). It has an easy and low maintenance with a 2-year interval between water top-up. The battery is a 230Ah Ni-Cd battery for railways HST (High Speed Train) battery: Sintered/PBE type, consisting of 54 cells. The individual battery lifetime is 15 years.

For industrial Ni-Cd batteries, Saft has partnered for many years with collection companies in most EU countries, North America and other countries. This collection network receives and ships their customers' end-of-life batteries to fully licensed recycling facilities.**100%** of Saft MRX batteries are **recycled**. For their European markets, they are recycled either at their own Saft AB (Sweden) recycling plant or at SNAM (France). In the recycling process at their plant in Sweden, **Cadmium and Nickel compounds** are recycled and reused in a closed loop to manufacture new industrial Ni-Cd batteries.

The Environmental Performance

Compared to the most widely used 210 Ah Lead-acid battery for railways application (flat pasted type, 36 cells)

11 % reduction in energy consumption

46 % reduction in greenhouse gas emissions

EXTERNAL VERIFICATION

Independent auditor EY has verified that this product was labeled according to the method described in the TotalEnergies Ecosolutions Guidelines and that the guidelines comply with the principles set out in the ISO 14020 and 14021 standards which govern environmental claims and particularly their accuracy.

- **Label award date**: April 2021 – Guidelines V7
- **Label term**: December 2025
- **Geographical scope**: France and Germany

Leveraging innovation to serve continuous improvement, the TotalEnergies Ecosolutions program involves developing products and services that enable our customers to improve their environmental footprint. For any question or to learn more about the TotalEnergies Ecosolutions program and the labeled products and services, go to: www.ecosolutions.totalenergies.com/en

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