

Daimler reduces battery failure to virtually zero with ACE®



Daimler required a battery with higher reserve capacities, higher cranking power and longer life with greater reliability and reduced maintenance costs to meet today's evolving driver demands.

The panacea for truck and large vehicle operators is finding a solution to costly battery failures, (which can hit over \$1,500 per breakdown) while being able to monitor and control performance and misuse.

Through a cooperative development project with EnerSys (NorthStar) this is what Daimler achieved.

The Daimler and EnerSys teams created the world's first Ultra High-Performance Pure Lead AGM design together with an award-winning ACE® wireless battery management system. To date, this has resulted in virtually zero battery failures on over 70,000 batteries fitted to the New Mercedes Actros and Arocs models across Europe.

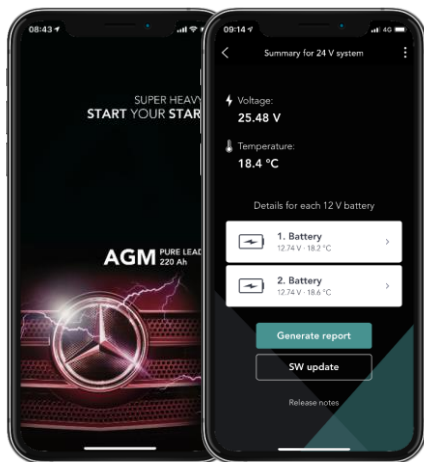
There are number of key components to the system:

- One of the most advanced AGM batteries available
- The ACE® sensor – built into every battery
- A state-of-the-art APP

The battery and embedded ACE® sensor

- Measures Voltage
- Measures Temperature
- Stores battery history
- Transmit data via Bluetooth®
- Low power consumption
- Collects battery characteristics information





The ACE IQ® APP

- The app can be used to wirelessly get battery status information including the battery Voltage (SoC), Health (SoH), Temperature and warranty status

Since early 2016, EnerSys NorthStar products have been available to Daimler customers in North America through both their Freightliner and Western Star brands as an Original Equipment standard on truck platforms featuring the ParkSmart option. Many fleets now rely on this unmatched performance and reliability in North America and across Europe, offered under EnerSys' NorthStar and now ODYSSEY Battery brands.

“We are proud to have worked alongside such a committed team at Daimler to design a battery specific to the heavy-duty market in Europe. By working together, the team was able to focus on what the heavy-duty customers’ needs are today and will be in the years to come.

“It has been amazing to see the development over the last two-years, with a reduction in battery failures and the significant cost-savings achieved by Daimler. In addition, the ACE® wireless battery management system revolutionizes the way in which batteries can be easily monitored, allowing fleet operators and OEMs to manage replacement schedules and identify mis-use and abuse.”

To find out how your fleet could reduce its battery failure costs, contact: