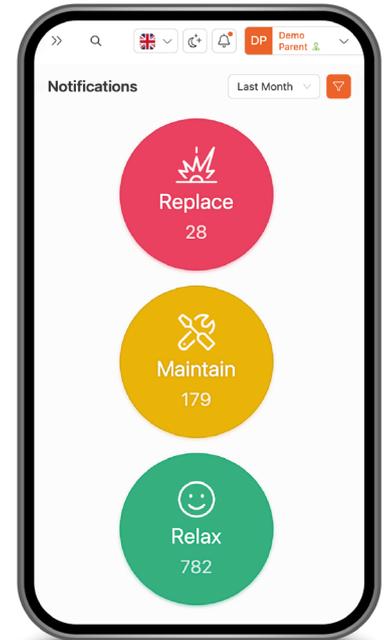


Batteries are everywhere and they unexpectedly fail.

Batteries now power everything — from vehicles, fleets, machinery and renewable energy systems to data centers, telecom towers and even fire safety equipment. Yet many of these batteries, especially lead-acid backup units, are left completely unmonitored, while even lithium batteries with built-in Battery Management Systems only show basic metrics like state of charge or voltage. They rarely provide insight into how long a battery will last, when it will

fail, or how it should be handled at end-of-life. This creates a growing challenge for manufacturers, fleet operators and service providers to manage procurement, installation, operations, maintenance and second-life decisions effectively. Without predictive visibility, battery unpredictability leads to lower performance, unexpected failures, SLA breaches, regulatory and insurance risks, brand damage and, in the worst cases, fires or explosions.



Predictive battery monitoring and analytics service

BatteryCheck is a patented predictive battery monitoring and analytics solution that helps industrial companies and operators of mixed battery fleets ensure safe, reliable and efficient battery usage. It continuously analyses real-time telemetry data across first-life and second-life applications to detect early signs of failure, forecast performance, and guide maintenance decisions - going far beyond traditional Battery Management Systems (BMS) that only report status. Compatible with lead-acid, lithium-ion and post-lithium chemistries, BatteryCheck integrates easily via API into both legacy and new systems, reducing downtime, maintenance costs and environmental impact while extending battery life. By improving operational resilience, supporting energy efficiency and ESG goals, and ensuring data integrity through blockchain-based timestamping for insurance, compliance and warranty purposes, BatteryCheck adds a critical layer of trust and transparency to battery operations in demanding, regulated environments.

Technology segment(s)

Battery management, Battery monitoring, IoT, Big Data, Edge Computing, Cloud-based Analytics, Predictive Maintenance & Ai models

Awards

- 2 patents
- Award: Predictive Battery Management System of the year in Europe 2025
- Award: Top Energy Storage Solutions Provider in Europe 2024



Use cases

- Predictive Maintenance - Detects early signs of battery degradation to prevent unexpected failures.
- Performance Optimization - Identifies inefficient battery usage and suggests improvements to extend battery life.
- Safety Monitoring - Flags thermal events or abnormal behavior to reduce fire and explosion risks.
- Lifecycle Management – Tracks battery health over time to support replacement planning and asset longevity.
- Compliance & Auditing - Provides tamper-proof data for regulatory reporting, insurance claims, and warranty validation.

Target market(s)

- Industrial & manufacturing
- Energy & Utilities
- Renewables
- Telecommunications
- Mobility & Transportation
- Commercial & Smart Buildings
- Property & Facility Management
- Critical Infrastructure
- ESG & Compliance
- eCommerce
- Insurance & Risk Management
- Battery Manufacturers & OEMs
- Marine
- Fire Safety
- Others