

AVL Digital Battery Passport

Enabling a Sustainable and Circular Battery Lifecycle

The AVL Digital Battery Passport enables the traceability and transparency of the battery value chain, from raw materials to end-of-life recycling. It supports distributing companies to comply with the requirements of the new EU Battery Regulation.

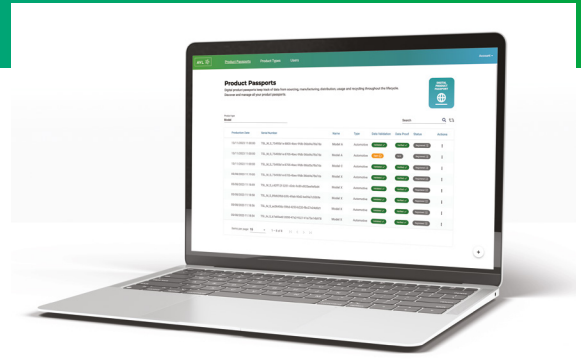
A PLATFORM FOR THE DIGITAL BATTERY VALUE CHAIN

The AVL Digital Battery Passport creates a digital representation of the physical battery, storing relevant data throughout the entire battery lifecycle. It provides information on the battery's identification, characteristics, performance, durability, carbon footprint, recycled material, supply chain due diligence and end-of-life management. The data is collected and shared by all stakeholders across the battery value chain, using a secure and interoperable platform based on data notarization methodologies. The AVL Digital Battery Passport is not only a requirement deriving from the regulation but also a chance to offer value-added services, allow new business models and improve trust and loyalty of the customer by establishing an additional communication channel.



Battery Innovation Center

The software solution was developed in cooperation with the battery experts of our AVL Battery Innovation Center, where it is used in a productive environment.



Digital Product Passports

The intuitive interface helps to keep track of all relevant data throughout the battery lifecycle.

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Verify compliance with legal obligations
and create value through circular
business models.

WHY ACT NOW?

From February 2027, all electric vehicles and industrial batteries (+2 kWh) sold in the EU will require a unique digital battery passport. The implementation of the battery passport takes time. It includes a maturity assessment, ensuring compliance with EU regulations, collecting data, integrating different systems as well as automating processes.

Failure to comply with the upcoming regulation may result in fines, product recalls and sales stops. AVL helps you to be ahead of competition while meeting the regulatory requirements in time.

WHY AVL?

- Implement a regulation compliant, future-proof passport platform
- Efficiently manage Battery Passport data and facilitate data transfer across the supply chain
- Benefit from a comprehensive Battery Passport turnkey portfolio: including consulting, platform, application, and value-added services
- Utilize AI-based decision support and validation of lifecycle scenarios
- Use the integrated Battery Passport analytics platform for reporting, benchmarking and dashboards

BENEFITS FOR YOU AND THE ENVIRONMENT

- **Regulatory Compliance:** Fulfilling all legal requirements and ensuring compliance with the EU Battery Regulation
- **CO₂ Footprint:** Easily accessible data helps to identify potentials to reduce CO₂ footprint
- **Social Impact:** Also considers social risk categories such as manufacturing conditions, human and labor rights
- **Material Composition:** Detailed overview of the battery's individual components and critical raw materials used
- **Data Security:** Build on state-of-the-art certified cloud infrastructure
- **Data Integration:** Easy integration into your existing IT landscape including IoT/OT/IT systems
- **Data Notarization:** Safeguarding integrity of battery passport data by providing tamper-proof methods of authenticating digital assets

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