

Path Cleared for the Battery Passport

Practical Guidance: New Standard Helps Companies Implement Requirements from the EU Battery Regulation

Berlin, January 15, 2025 – Whether in electric vehicles, e-bikes, or industrial energy storage systems, batteries play a pivotal role in achieving climate neutrality. However, comparing their sustainability and performance is not straightforward. This is set to change in February 2027 with the EU-wide mandatory digital battery passport, which will document data along a battery's entire lifecycle.

A new standard now provides practical guidance: The DIN DKE SPEC 99100, "Requirements for Data Attributes of the Battery Passport", helps companies implement the battery passport. The German Institute for Standardization (DIN) and the German Commission for Electrical, Electronic & Information Technologies (DKE) published the standard.

Transparent and Digitally Documented

The DIN DKE SPEC 99100 defines data attributes to be included in the digital battery passport based on both requirements by the EU Battery Regulation as well as voluntary additions. These may include, among others:

- General information about the battery and manufacturer
- Battery materials and composition
- Performance and durability
- Working conditions in raw material extraction
- Battery carbon footprint

The DIN DKE SPEC 99100 thus serves as a valuable guide for economic operators to identify the necessary data for the future battery passport.

Foundation for International Standards

The DIN DKE SPEC 99100 builds on the publicly funded Battery Pass consortium's "Content Guidance for the EU Battery Passport", last updated in December 2023. This publicly accessible guide supports the implementation of the battery passport in line with the requirements of the EU Battery Regulation. "The Content Guidance laid the foundation for a practical explanation of the content requirements of the battery passport. The newly published standard provides implementing companies with clarity on the specific data attributes to be collected for the battery passport. This marks another important step in bringing digital product passports into use and harnessing their extraordinary potential for circular value creation," says acatech President Thomas Weber.

"With the DIN DKE SPEC 99100, we make the results of the Battery Pass project's guidelines easily accessible to everyone preparing for the introduction

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of the battery passport in the European Union. At the same time, we lay the groundwork for further international standardization on this topic," explains Dr. Torsten Freund, Battery Passport Project Manager at BASF, a chemical company and solutions provider for battery materials, as well as Chair of the DIN DKE SPEC 99100 committee.

The two organizations, representing the Battery Pass consortium, initiated the DIN DKE SPEC together with representatives of other organizations. The Battery Pass consortium has also published an updated and aligned version of the "Data attribute longlist" on its website, where requirements can be filtered by different battery categories, for example.

High-Level Consortium

The Federal Ministry for Economic Affairs and Climate Action (BMWK) supports the development of the digital battery passport. The "Content Guidance for the EU Battery Passport" was developed by the Battery Pass consortium, a collaboration of eleven leading international organizations from industry, technology, and science, led by Systemiq.

The standard is available to download free of charge from [DIN Media](#).

About DIN

DIN, the German Institute for Standardization, is the independent platform for standardization in Germany and worldwide. Together with industry, scientific institutions, public authorities and civil society as a whole, DIN plays a major role in identifying future areas for standardization. By helping to shape the green and digital transformation, DIN makes an important contribution towards solving current challenges and enables new technologies, products and processes to establish themselves on the market and in society. More than 37,500 experts from industry, research, consumer protection and the public sector bring their expertise to work on standardization projects managed by DIN. The results of these efforts are market-oriented standards and specifications that promote global trade, encouraging rationalization, quality assurance and environmental protection as well as improving security and communication. For more information, go to www.din.de.

About DKE

The DKE German Commission for Electrical, Electronic & Information Technologies (DKE) is the national platform for about 10,000 experts from industry, science and public administration to elaborate standards and safety specifications for electrical engineering, electronics and information technology. Standards support global trade and, among other things, the safety, interoperability and functionality of products and systems. As a competence centre for electrotechnical standardization, the DKE represents the interests of German industry in European (CENELEC, ETSI) and international standardization organizations (IEC). In addition, the DKE provides comprehensive services in the field of standardization and VDE specifications. For more information, visit www.dke.de