

## Transparency through comparison:

# AVILOO battery tests for electric vehicles open up a new era of diagnostics through benchmark analysis

**Wiener Neudorf 16. 05. 2024** - Until now, battery tests have provided EV owners insight into the total condition of an electric vehicle's battery without providing a comparison with other vehicles. While this represented a milestone in understanding the remarketing of used electric vehicles, it was not previously possible to compare the values with a peer group. But now AVILOO Battery Diagnostics has developed a revolutionary solution that not only precisely records the battery's State of Health (SoH), but also enables a comparison with similar vehicles. This pioneering development marks another milestone in battery diagnostics for electric vehicles.

An outstanding innovation is the presentation of the State of Health (SoH) values of a specific electric vehicle in comparison to the SoH values of all other similar vehicle models, both graphically and numerically (Figure 1). In addition, comparative analyses provide insight into other relevant categories such as internal resistance and battery performance. The information on the charging and driving behavior of electric vehicles, which illustrates the influence of driving behavior on battery health, is also particularly noteworthy (Figure 2). For the first time, AVILOO customers will also have access to graphical representations of the signals monitored during dynamic tests (Figure 3).

This new way of displaying results also increases customer safety by informing them graphically and numerically about the status of the individual cell levels. In the event of a battery fault, the PREMIUM certificate and the FLASH Report contain a detailed analysis (Figure 4).

To deliver accurate and relevant benchmark results, AVILOO has introduced new algorithms and restructured the reporting system of the PREMIUM and FLASH tests. Nikolaus Mayerhofer, AVILOO CTO, emphasizes that a comparative benchmark analysis is only possible with an independent battery diagnosis that does not use the data read from the battery, but is primarily based on measured and analyzed data: "The AVILOO battery database is the most comprehensive in the world and enables the comparison of vehicles of different makes and models, thus underlining the absolute necessity of an independent battery diagnosis."

Dr. Marcus Berger, AVILOO CEO, emphasizes the importance of this development for the used electric vehicle market: "By comparing a vehicle with many other vehicles of the same vehicle type, we provide a simple and understandable answer to how good the battery of an electric vehicle is compared to other electric vehicles of the same model, age and mileage. This is the answer to many questions from both sellers and buyers and will make the remarketing of used electric vehicles much easier".

The further developments to the PREMIUM Test Certificate and the FLASH Test Report will be introduced gradually in several phases in the third quarter of 2024.

\* \* \*

AVILOO GmbH is the global market leader in battery diagnostics for electric and plug-in hybrid vehicles. As an Austrian company with a global reach, AVILOO is characterized by independent and reliable technology. The battery tests are user-friendly and customized to the needs of each user. The PREMIUM Test, the most accurate and comprehensive test, is TÜV-certified, while the FLASH Test, the fastest comprehensive test on the market, is CARA-approved.

AVILOO works with well-known partners such as TÜV Süd, Arval, ADAC, AXA Versicherung, Hyundai Motor Deutschland, Maverick, Viking, Norsk Elbilforeningen, Diagno, au2part, Applus, VAA, ÖAMTC, ARBÖ, VAB, Elgersma and many others.

Contact:

Radinka Danilov Sehovic,  
Senior Communication  
Expert

AVILOO GmbH

[radinka.sehovic@aviloo.com](mailto:radinka.sehovic@aviloo.com)

Tel.: +43 676 88932 209

[WWW.AVILOO.COM](http://WWW.AVILOO.COM)