



# FLASH TEST REPORT

## Execution

State of charge 41 %  
Date 24/07/2025 15:28:35  
Executed by Carla AB

## Vehicle

Brand Mercedes-Benz  
Model EQC 400 - 85 kWh  
VIN W1K2938901F015070  
Mileage 69,928 km

## Analysis Result

# AVILOO SCORE

96  
/ 100

**High voltage battery usage and history**  
Analysis of charging & driving behavior

67 / 70

**High voltage battery performance**  
Analysis of cell voltages and module temperatures.

29 / 30

**High voltage battery control unit**  
Check of signals and calculations of the battery management control unit.



**Vehicle communication interface**  
Check of communication via the diagnostic interface.



Dr. Marcus Berger  
CEO and Partner

DI Wolfgang Berger MBA  
CSO and Founder

DI Nikolaus Mayerhofer  
CTO and Founder



# EXPLANATION OF THE BATTERY FLASH TEST

## ANALYSIS METHOD

The analysis performed is a combined result of: The communication quality between the diagnostic hardware AVILOO Box and the on-board diagnostic interface of the vehicle. The live battery data and data that indicates the previous use of the high voltage battery, which is made available to the AVILOO Box by the battery management system during the measurement. The plausibility check and classification of the battery condition using the collected values and a comparison with the AVILOO Battery Cloud using Big Data algorithms.

## FLASH TEST EXECUTION PROTOCOL

- 15:28:31
- ✓ AVILOO Box connected.
  - ✓ FLASH Test started.
  - ✓ Starting data acquisition.
  - ✓ Vehicle detected.
  - ✓ Finished data acquisition.
  - ✓ Analyzing data.
  - ✓ Analysis completed.

## DETAILED RESULTS OF PERFORMED CHECKS

### Vehicle Information

Date	24/07/2025 15:28:35
Mileage	69,928 km
VIN	W1K2938901F015070

### Measurements High Voltage System

Battery temperature	26 °C
Maximum cell temperature deviation	1 °C
Pack voltage	349.4 V
Maximum cell voltage deviation	3.01 mV
Peak current during check	-12.4 A
State of Health (SoH - read from car manufacturer)*	96.69 %

\*The SoH shown here was not calculated by AVILOO but corresponds to the SoH read out from the battery management system and calculated by the manufacturer. AVILOO therefore does not guarantee the correctness of this SoH.

