



# FLASH TEST REPORT

## Execution

State of charge 75 %  
Date 03/02/2025 12:08:48  
Executed by Carla AB

## Vehicle

Brand smart  
Model #1 - 66 kWh  
VIN HESXA2C41PS083738  
Mileage 9,435 km

## Analysis Result

# AVILOO SCORE

**100**  
/ 100

### High voltage battery usage and history

Analysis of charging & driving behavior

70 / 70

### High voltage battery performance

Analysis of cell voltages and module temperatures.

30 / 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.



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# 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

- 12:08:44
- ✓ 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

VIN	HESXA2C41PS083738
Date	03/02/2025 12:08:48
Mileage	9,435 km

### Measurements High Voltage System

Battery temperature	8.6 °C
Maximum cell temperature deviation	2.2 °C
Pack voltage	425.56 V
Maximum cell voltage deviation	12.02 mV
Peak current during check	-3.15 A
State of Health (SoH - read from car manufacturer)*	99.81 %

\*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.

