



# FLASH TEST REPORT

## Execution

State of charge 61.6 %  
Date 05/05/2025 16:56:27  
Executed by AVILOO intern

## Vehicle

Brand Tesla  
Model Model S - 100  
VIN 5YJSA7E21JF296383  
Mileage 101,533 km

## Analysis Result

# AVILOO SCORE

92  
/ 100

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

65 / 70

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

27 / 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

- 16:56:24
- ✓ 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	5YJSA7E21JF296383
Date	05/05/2025 16:56:27
Mileage	101,533 km

### Measurements High Voltage System

Battery temperature	18.68 °C
Maximum cell temperature deviation	2.68 °C
Pack voltage	371.08 V
Maximum cell voltage deviation	5.21 mV
Peak current during check	-1.9 A
State of Health (SoH - read from car manufacturer)*	92.58 %

\*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.

