



# FLASH TEST REPORT

## Execution

State of charge **6.22 %**  
Date 31/08/2023 09:10:20  
Executed by Carla AB

## Vehicle

Brand Tesla  
Model Model S  
VIN 5YJSA7E22JF250030  
Mileage 58,858 km

## Analysis Result

# AVILOO SCORE

**93**  
/ 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.

**28** / 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.



  
DI Wolfgang Berger MBA  
Managing director

  
DI Nikolaus Mayerhofer  
Managing director

  
Dr. Marcus Berger  
COO/CFO and Partner



# 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

- 09:10:17 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	5YJSA7E22JF250030
Date	31/08/2023 09:10:20
Mileage	58,858 km

### Measurements High Voltage System

Battery temperature	20.89 °C
Maximum cell temperature deviation	0.46 °C
Pack voltage	285.96 V
Maximum cell voltage deviation	15.82 mV
Peak current during check	-1.35 A
State of Health (SoH - read from car manufacturer)*	94.08 %

\*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.

