

# FLASH TEST REPORT

## Execution

State of charge 52.5 %  
Date 31/07/2023 12:33:41  
Executed by Carla AB

## Vehicle

Brand Tesla  
Model Model S  
VIN 5YJSA7E28JF234284  
Mileage 71,263 km

## Analysis Result

# AVILOO SCORE

93  
/ 100

### High voltage battery usage and history

Analysis of charging & driving behavior

45 / 50

### 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.

10 / 10

### Electrical low voltage system


Check of 12 V battery state and power supply.


5 / 5


### Vehicle communication interface

Check of communication via the diagnostic interface.

5 / 5

  
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

12:33:38 AVILOO Box connected.  
12:33:41 Flash Test started.  
12:33:49 Starting data acquisition.  
12:33:50 Vehicle detected.  
12:35:49 Finished data acquisition.  
12:35:55 Analyzing data.  
12:35:57 Analysis completed.

## DETAILED RESULTS OF PERFORMED CHECKS

### Vehicle Information

VIN	5YJSA7E28JF234284
Date	31/07/2023 12:33:41
Mileage	71,263 km

### Measurements High Voltage System

Battery temperature	21.04 °C
Maximum cell temperature deviation	0.38 °C
Pack voltage	318.02 V
Maximum cell voltage deviation	8.62 mV
Peak current during check	-10.51 A

### Measurements Low Voltage System

Power supply 12V system	13.29 V
-------------------------	---------

