



FLASH TEST REPORT

Execution

State of charge **88.94 %**
Date 11/07/2023 13:48:09
Executed by Carla AB

Vehicle

Brand Tesla
Model Model S
VIN 5YJSA7E14HF180886
Mileage 68,877 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

```
13:48:06 AVILOO Box connected.
13:48:09 Flash Test started.
13:50:06 Starting data acquisition.
13:50:10 Vehicle detected.
13:50:36 Finished data acquisition.
13:50:44 Analyzing data.
13:50:46 Analysis completed.
```

DETAILED RESULTS OF PERFORMED CHECKS

Vehicle Information

VIN	5YJSA7E14HF180886
Date	11/07/2023 13:48:09
Mileage	68,877 km

Measurements High Voltage System

Battery temperature	20.81 °C
Maximum cell temperature deviation	0.44 °C
Pack voltage	342.8 V
Maximum cell voltage deviation	3.66 mV
Peak current during check	-3.1 A

Measurements Low Voltage System

Power supply 12V system	13.49 V
-------------------------	---------

