

FLASH TEST REPORT

Execution

State of charge 54.81 %
Date 07/06/2023 15:19:27
Executed by Carla AB

Vehicle

Brand Tesla
Model Model S
VIN 5YJSA7E28MF418919
Mileage 38,651 km

Analysis Result

AVILOO SCORE

96
/ 100

High voltage battery usage and history

Analysis of charging & driving behavior

47 / 50

High voltage battery performance

Analysis of cell voltages and module temperatures.

29 / 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


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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

| | |
|----------|----------------------------|
| 15:19:24 | AVILOO Box connected. |
| 15:19:27 | Flash Test started. |
| 15:20:21 | Starting data acquisition. |
| 15:20:21 | Vehicle detected. |
| 15:21:35 | Finished data acquisition. |
| 15:21:42 | Analyzing data. |
| 15:21:44 | Analysis completed. |

DETAILED RESULTS OF PERFORMED CHECKS

Vehicle Information

| | |
|---------|---------------------|
| VIN | 5YJSA7E28MF418919 |
| Date | 07/06/2023 15:19:27 |
| Mileage | 38,651 km |

Measurements High Voltage System

| | |
|------------------------------------|----------|
| Battery temperature | 25.07 °C |
| Maximum cell temperature deviation | 1.71 °C |
| Pack voltage | 367.33 V |
| Maximum cell voltage deviation | 4.27 mV |
| Peak current during check | -9.21 A |

Measurements Low Voltage System

| | |
|-------------------------|---------|
| Power supply 12V system | 13.34 V |
|-------------------------|---------|

*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.

