AVILOO
BATTERY DIAGNOSTICS



# FLASH TEST REPORT

## Execution

| | |
|---|---|
| State of charge | 17.73 % |
| Date | 25/07/2023 10:00:08 |
| Executed by | Carla AB |

## Vehicle

| | |
|---|---|
| Brand | Tesla |
| Model | Model S |
| VIN | 5YJSA7E21KF331554 |
| Mileage | 74,147 km |

## Analysis Result

## AVILOO SCORE 94 / 100

| | |
|---|---|
| **High voltage battery usage and history**<br>Analysis of charging & driving behavior | 46 / 50 |
| **High voltage battery performance**<br>Analysis of cell voltages and module temperatures. | 28 / 30 |
| **High voltage battery control unit**<br>Check of signals and calculations of the battery management control unit. | 10 / 10 |
| **Electrical low voltage system**<br>Check of 12 V battery state and power supply. | 5 / 5 |
| **Vehicle communication interface**<br>Check of communication via the diagnostic interface. | 5 / 5 |

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CARA Approved Battery Health Check

# 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

| | |
|---|---|
| 10:00:05 | AVILOO Box connected. |
| 10:00:08 | Flash Test started. |
| 10:04:25 | Starting data acquisition. |
| 10:04:25 | Vehicle detected. |
| 10:06:30 | Finished data acquisition. |
| 10:06:48 | Analyzing data. |
| 10:06:50 | Analysis completed. |

## DETAILED RESULTS OF PERFORMED CHECKS

### Vehicle Information

| | |
|---|---|
| VIN | 5YJSA7E21KF331554 |
| Date | 25/07/2023 10:00:08 |
| Mileage | 74,147 km |

### Measurements High Voltage System

| | |
|---|---|
| Battery temperature | 20.04 °C |
| Maximum cell temperature deviation | 1.48 °C |
| Pack voltage | 335.71 V |
| Maximum cell voltage deviation | 8.97 mV |
| Peak current during check | -1.11 A |

### Measurements Low Voltage System

| | |
|---|---|
| Power supply 12V system | 13.94 V |

AVILOO BATTERY DIAGNOSTICS

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