



FLASH TEST REPORT

29/08/2023 05:02:52

AVILOO

Execution

State of charge Date Executed by

Vehicle

Brand Model VIN Mileage

100 %

Hyundai Ioniq - 28 kWh

KMHC

81,247 km

Analysis Result

AVILOO SCORE



High voltage battery usage and history

Analysis of charging & driving behavior

66 / 70

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.



Vehicle communication interface

Check of communication via the diagnostic interface.



DI Wolfgang Berger MBA Managing/director DI Nikolaus Mayerhofer Managing director

Dr. Marcus Berger Managing director



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

05:02:49 AVILOO Box connected.

- Flash Test started.
- ✓ Vehicle detected.
- Starting data acquisition.
- Finished data acquisition.
- Analyzing data.
- Analysis completed.

DETAILED RESULTS OF PERFORMED CHECKS

Vehicle Information

Measurements High Voltage System

Battery temperature 27 °C

Maximum cell temperature deviation 1 °C

Pack voltage 394.4 V

Maximum cell voltage deviation 0 mV

Peak current during check -0.6 A

State of Health (SoH - read from car manufacturer)* 100 %

*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.









FLASH TEST REPORT

08/04/2023 3:38:22 PM

100 %

Execution

State of charge Date Executed by Vehicle

Brand Model VIN Mileage Tesla Model 3 - 60,5 kWh LRW3E7F

13,208 km

Analysis Result

AVILOO SCORE



High voltage battery usage and history

Analysis of charging & driving behavior

61 / 70

High voltage battery performance

WARNING: Analysis of cell voltages and module temperatures failed. For details see page 2.

/ 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



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

15:38:19 AVILOO Box connected.

Flash Test started.

Vehicle detected.

Starting data acquisition.

Finished data acquisition.

Analyzing data.

Analysis completed.

DETAILED RESULTS OF PERFORMED CHECKS

State of Health (SoH - read from car manufacturer)*

Vehicle Information

VIN LRW3E7F
Date 08/04/2023 3:38:22 PM
Mileage 13,208 km

Measurements High Voltage System

Battery temperature 26.5 °C

Maximum cell temperature deviation 1.5 °C

Pack voltage 362.2 V

High cell spread detected. This indicates a defective or heavily unbalanced cell. (< 120.0 mV) 180 mV

Peak current during check -26.14 A

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89.42 %





FLASH TEST REPORT

Execution

State of charge Date Executed by Vehicle

74.5 % Br 08/24/2023 11:51:14 AM M --- VI

Brand Volkswagen
Model ID4 - 77 kWh
VIN WVGZZZ
Mileage 13,421 km

Analysis Result

AVILOO SCORE



High voltage battery usage and history Analysis of charging & driving behavior

High voltage battery performanceAnalysis of cell voltages and module temperatures.

29 / 30

69 / 70

High voltage battery control unit

Check of signals and calculations of the battery management control unit.



Vehicle communication interface

At least one Check could not be performed, therefore the result may be inaccurate. For details, please refer to page 2!



DI Wolfgang Berger MBA Managing director

DI Nikolaus Mayerhofer Managing director



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

11:51:14 Flash Test started.

Vehicle detected.

Starting data acquisition.

Finished data acquisition.

Analyzing data.

Analysis completed.

DETAILED RESULTS OF PERFORMED CHECKS

Vehicle Information

VIN WYGZZZ

Date 08/24/2023 11:51:14 AM

Mileage 13,421 km

Measurements High Voltage System

Battery temperature	20.38 °C
Maximum cell temperature deviation	0.38 °C
Pack voltage	374.95 V
Maximum cell voltage deviation	6.1 mV
Peak current during check	-3.33 A
State of Health (SoH - read from car manufacturer)*	97.14 %

At least one check could not be performed due to missing signals. Contact the manufacturer.

*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.



