



# FLASH TEST REPORT

## Execution

State of charge 70 %  
Date 20/07/2023 15:24:49  
Executed by Carla AB

## Vehicle

Brand Hyundai  
Model Ioniq 5 - 72,6 kWh  
VIN KMHKR81CPNU069524  
Mileage 18,207 km

## Analysis Result

# AVILOO SCORE

100  
/ 100

### High voltage battery usage and history

Analysis of charging & driving behavior

50 / 50

### High voltage battery performance

Analysis of cell voltages and module temperatures.

30 / 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

  
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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

15:24:46	AVILOO Box connected.
15:24:49	Flash Test started.
15:24:52	Vehicle detected.
15:24:57	Starting data acquisition.
15:27:49	Finished data acquisition.
15:28:03	Analyzing data.
15:28:04	Analysis completed.

## DETAILED RESULTS OF PERFORMED CHECKS

### Vehicle Information

VIN	KMHKR81CPNU069524
Date	20/07/2023 15:24:49
Mileage	18,207 km

### Measurements High Voltage System

Battery temperature	19 °C
Maximum cell temperature deviation	1 °C
Pack voltage	698.9 V
Maximum cell voltage deviation	0 mV
Peak current during check	-2.1 A
State of Health (SoH - read from car manufacturer)*	100 %

### Measurements Low Voltage System

Power supply 12V system	13.93 V
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\*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.

