



# FLASH TEST REPORT

## Execution

State of charge **89 %**  
Date 09/05/2023 07:47:35  
Executed by Carla AB

## Vehicle

Brand Kia  
Model e-Niro - 64 kWh  
VIN KNACC81GFL5043712  
Mileage 66,813 km

## Analysis Result

# AVILOO SCORE

**97**  
/ 100

### High voltage battery usage and history

Analysis of charging & driving behavior

**48** / 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

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

07:47:32 AVILOO Box connected.  
07:47:35 Flash Test started.  
07:47:38 Vehicle detected.  
07:47:43 Starting data acquisition.  
07:50:34 Finished data acquisition.  
07:50:46 Analyzing data.  
07:50:47 Analysis completed.

## DETAILED RESULTS OF PERFORMED CHECKS

### Vehicle Information

VIN	KNACC81GFL5043712
Date	09/05/2023 07:47:35
Mileage	66,813 km

### Measurements High Voltage System

Battery temperature	19 °C
Maximum cell temperature deviation	2 °C
Pack voltage	397.3 V
Maximum cell voltage deviation	0 mV
Peak current during check	-4.58 A
State of Charge (SoC) deviation	0.56 %
State of Health (SoH - read from car manufacturer)*	96 %

### Measurements Low Voltage System

Power supply 12V system	14.56 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.

