

INDEPENDENT BATTERY CERTIFICATE



CERTIFICATE NUMBER: C2468735-98CF-41A5-96C4-2419780D7A5C

VEHICLE

BRAND: Kia
MODEL: Niro EV - 64,8 kWh

MILEAGE: 2,289 km
VIN: KNACR811UR5117940
DATE AND TIME:
28/09/2026, 13:40

EXECUTED BY: Carma

RESULTS

Independent
STATE OF HEALTH (SOH)

98.8 %

ENERGY

64kWh | 65kWh



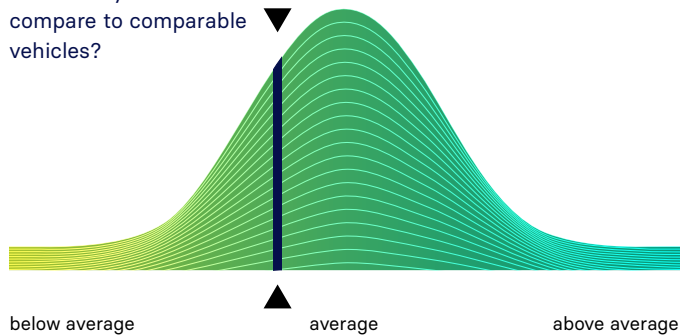
WLTP RANGE

454km | 460km

RATING

BENCHMARKING

How does your vehicle compare to comparable vehicles?



CHECKS

Battery Management System (BMS) ✓

Battery Sensor ✓

Battery Measurements ✓

Battery Cell Voltages ✓

Vehicle Communication ✓



SCAN FOR DETAILS

EVALUATION

EXCELLENT HEALTH - NO ABNORMALITIES DETECTED

Based on the detailed battery diagnostics performed with the AVILOO FLASH Test, we hereby certify that the drive battery of this vehicle is in excellent condition.

The drive battery is therefore officially AVILOO Certified.

Marcus Berger

Dr. Marcus Berger, CEO



ENERGY

	Gross	Net (Nominal)	Usable
Current:	67.2kWh	64.0kWh	61.4kWh
New:	68.0kWh	64.8kWh	62.2kWh

RANGE

	WLTP	Typical	Individual
Current:	454km	347km	345km
New:	460km	351km	349km

EXECUTION PROTOCOL

AVILOO Box connected. 13:40:02

FLASH Test started.	✓
Vehicle detected.	✓
Data acquisition started.	✓
Data acquisition completed.	✓
Data analysis started.	✓
Data analysis completed.	✓

SENSORS

Voltage Sensor	✓
Current Sensor	✓
Temperature Sensors	✓
Cell Voltage Sensors	✓

BMS

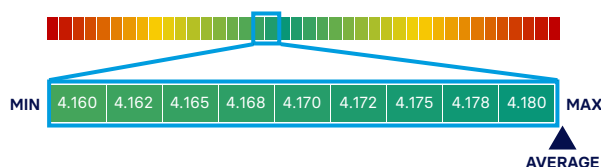
	Value	Status
BMS State of Charge (SoC)*:	93%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	100%	
SoH calculation accuracy:		✓

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	17.0°C	18.0°C	1.0°C	✓
Cell Voltage	4.160V	4.180V	20mV	✓
Pack Voltage	401.6V			
Average Current	-1.2A			

CELL VOLTAGES DIAGRAM

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1 - 20	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180
21 - 40	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180
41 - 60	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180
61 - 80	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180
81 - 96	4.180	4.180	4.180	4.180	4.180	4.160	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	4.180	/	/	/	/



*The values shown here were read directly from the vehicle's battery management system (BMS) and are calculated and provided by the vehicle manufacturer. The State of Health (SoH) displayed corresponds to the value reported by the BMS and is CARA-certified.

DISCLAIMER: The test result includes the currently calculated state of health (SoH) of the drive battery. The determination is based on data provided by the vehicle. These are evaluated by AVILOO's algorithms using statistical and analytical models. Manipulation of the data in the control unit leads to an incorrect result. The indicated SoH has a technically induced fluctuation range (deviation) of no more than 3% in at least 95% of reference measurements. It should be noted that this tolerance applies to the SoH determination at the cell level and not to the SoH of the entire battery. This is because the state of charge of individual cells may vary, which can negatively affect the current SoH of the battery. However, this can be compensated by the Battery Management System (BMS) or during a calibration. The result reflects the condition of the battery at the time of the test. No conclusions can be drawn about the future state of health of the battery from this. Statements about mechanical damage or external influences are not part of this diagnosis.