

INDEPENDENT BATTERY CERTIFICATE



CERTIFICATE NUMBER: A0B1AD56-EC19-432E-B175-89C366567531

VEHICLE

BRAND: Hyundai
MODEL: Ioniq 5 - 77,4 kWh

MILEAGE: 36,372 mi
VIN: KM8KNDDF8RU301228
DATE AND TIME:
8/21/26, 12:20 PM

EXECUTED BY: Reds Auto and Truck

RESULTS

Independent
STATE OF HEALTH (SOH)

97.6 %

ENERGY

76kWh | 77kWh



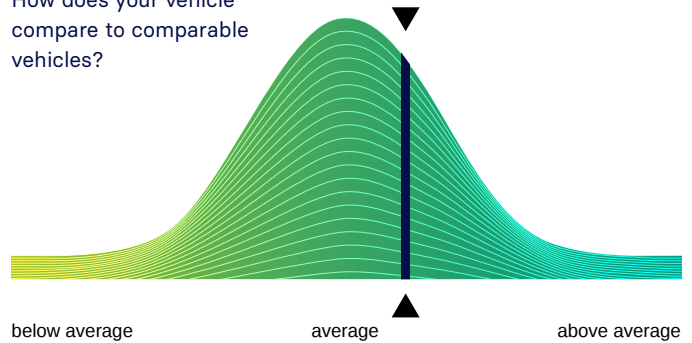
WLTP RANGE

307mi | 315mi

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:	78.1kWh	75.5kWh	71.6kWh
New:	80.0kWh	77.4kWh	73.4kWh

RANGE

	WLTP	Typical	Individual
Current:	275-307mi	219mi	271mi
New:	282-315mi	225mi	278mi

EXECUTION PROTOCOL

AVILOO Box connected. 12:19:57

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

SENSORS

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

BMS

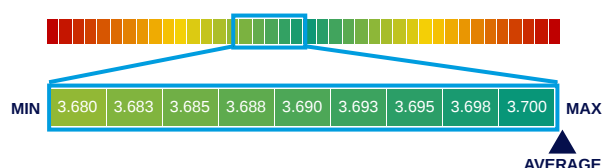
	Value	Status
BMS State of Charge (SoC)*:	52%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	100%	
SoH calculation accuracy:		✓

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	80.6F	87.8F	7.2F	✓
Cell Voltage	3.680V	3.700V	20mV	✓
Pack Voltage	710.4V			
Average Current	-2.6A			

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	3.698	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.697	3.700	3.700	3.700	3.700	3.700	3.700	3.700
21 - 40	3.700	3.700	3.700	3.700	3.693	3.700	3.689	3.700	3.693	3.684	3.694	3.681	3.689	3.680	3.698	3.699	3.700	3.700	3.700	3.700
41 - 60	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.698	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700
61 - 80	3.695	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.696	3.700	3.699	3.700	3.700	3.698	3.698	3.700
81 - 100	3.700	3.700	3.699	3.697	3.697	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700
101 - 120	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700
121 - 140	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700
141 - 160	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.697	3.700	3.700	3.700	3.700	3.700
161 - 180	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.691	3.699	3.700	3.697	3.700	3.698	3.692	3.695	3.686	3.698
181 - 192	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700	3.700



*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.