

INDEPENDENT BATTERY CERTIFICATE



CERTIFICATE NUMBER: 389B179B-A9FA-41F9-8D3F-328DF766E15B

VEHICLE

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

MILEAGE: 44,668 km
VIN: KMHKR81FPPU140493
DATE AND TIME:
19.12.2025, 14:35:19

EXECUTED BY: Carla AB

RESULTS

STATE OF HEALTH (SOH)

97.8 %

ENERGY 76kWh | 77kWh

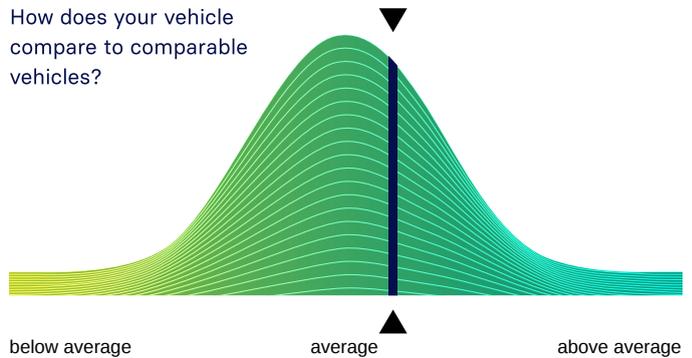


WLTP RANGE 496km | 507km

RATING

BENCHMARKING

How does your vehicle compare to comparable vehicles?



CHECKS

- Battery Management System (BMS) ✓
- Battery Sensor ✓
- Battery Measurements ✓
- Battery Cell Voltages ✓
- Vehicle Communication ✓



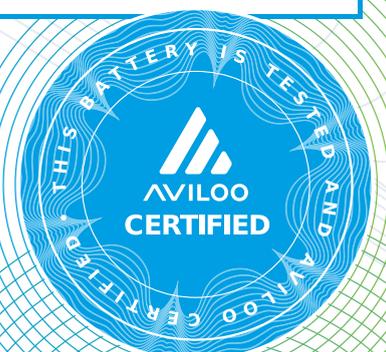
EVALUATION

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.

Dr. Marcus Berger, CEO



ENERGY

	Gross	Net (Nominal)	Usable
Current:	78.3kWh	75.7kWh	71.8kWh
New:	80.0kWh	77.4kWh	73.4kWh

RANGE

	WLTP	Typical	Individual
Current:	444-496km	354km	324km
New:	454-507km	362km	331km

EXECUTION PROTOCOL

AVILOO Box connected.	14:35:15
FLASH Test started.	✓
Starting data acquisition.	✓
Vehicle detected.	✓
Finished data acquisition.	✓
Analyzing data.	✓
Analysis completed.	✓

SENSORS

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

BMS

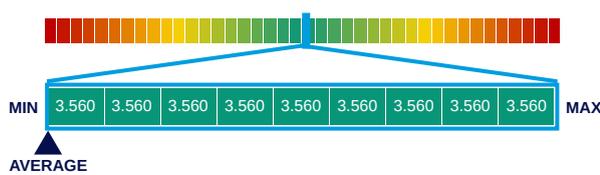
	Value	Status
BMS State of Charge (SoC)*:	24%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	100%	
SoH calculation accuracy:		✓

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	9.0°C	10.0°C	1.0°C	✓
Cell Voltage	3.560V	3.560V	0mV	✓
Pack Voltage	684.5V			
Average Current	-4.6A			

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	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560
21 - 40	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560
41 - 60	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560
61 - 80	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560
81 - 100	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560
101 - 120	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560
121 - 140	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560
141 - 160	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560
161 - 180	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560
181 - 192	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560	3.560



*The values shown here were not calculated by AVILOO but correspond to the values read out from the battery management system (BMS) and were calculated by the manufacturer. AVILOO therefore assumes no liability for their accuracy.

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.