INDEPENDENT

BATTERY CERTIFICATE



CERTIFICATE NUMBER: 4A27AAA6-0926-442E-8B1C-0FF7D348174A

VEHICLE

BRAND: Hyundai

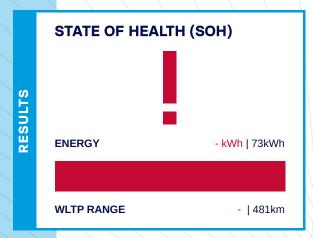
MODEL: Ioniq 5 - 72,6 kWh

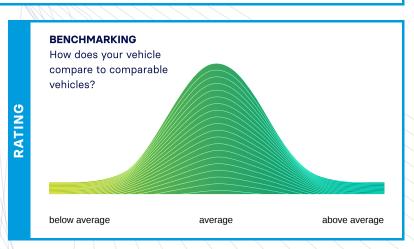
MILEAGE: 96,337 km

VIN: KMHKR81AFNU014641

DATE AND TIME: 05.09.2025, 14:47:50

EXECUTED BY: Carla AB





Battery Management System (BMS) - warning detected

Battery Sensor

Battery Measurements - safety risk detected

Battery Cell Voltages

Vehicle Communication



EVALUATION

SAFETY RISK! - POTENTIAL SAFETY HAZARD

During the detailed battery diagnosis with the AVILOO FLASH Test, safety concerning anomalies were detected that require immediate inspection. For Details scan the QR code.

For assistance, please contact AVILOO Customer Management.

harans Reiger

Dr. Marcus Berger, CEO



	Gross	Net (Nominal)	Usable
Current:			
New:	77.0kWh	72.6kWh	68.9kWh

Į.		WLTP	Typical	Individual
	Current:			
	New:	430-481km	344km	416km

70	AVILOO Box connected.	14:47:47
00.	FLASH Test started.	✓
ROT	Vehicle detected.	✓
<u>a</u>	Starting data acquisition.	✓
0	Finished data acquisition.	✓
CC	Analyzing data.	✓
EXECUTION PROTOCOL	Analysis completed.	✓
-		

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

		Value	Status
	BMS State of Charge (SoC)*:	15%	
BMS	SoC calculation accuracy:		~
m	BMS State of Health (SoH)*:	100%	
	SoH calculation accuracy:		Ţ

	Min	Max	Delta	Statu
Battery Temperature	19.0°C	22.0°C	3.0°C	•
Cell Voltage	3.480V	4.000V	520mV	ļ
Pack Voltage	720.0V			
Average Current	-2.0A			



SENSORS

It has been determined that there is a discrepancy between the highest and lowest charged cells, as illustrated in the cell voltage table above. This indicates an issue with battery balancing. Please take your vehicle to a workshop or contact AVILOO Customer Management for further assistance.

The state of health calculated by the BMS is implausible. This may result in a reduced range or the vehicle stopping before reaching 0% charge. Try to recalibrate the BMS with a full cycle, then try the FLASH Test again, if the problem persists we recommend a PREMIUM Test for a deeper analysis or contact AVILOO Customer Management for assistance.

The determined SoH is below the recommended limit for normal operation. In order to identify the underlying cause of this low SoH we recommend either conducting a PREMIUM Test or arranging a visit to a workshop. For...

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 AVILOOs 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 Managament 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.

^{*}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.