INDEPENDENT

BATTERY CERTIFICATE

CERTIFICATE NUMBER:

AVILOO
BATTERY DIAGNOSTICS

VEHICLE

BRAND: BMW
MODEL: 5 Series Plug-in Hybrid - 9,2 kWh

MILEAGE: 43,334 km
VIN: Removed
DATE AND TIME: 31/07/2026, 13:53

EXECUTED BY: Belgard Sales Limited

RESULTS

Independent
STATE OF HEALTH (SOH)

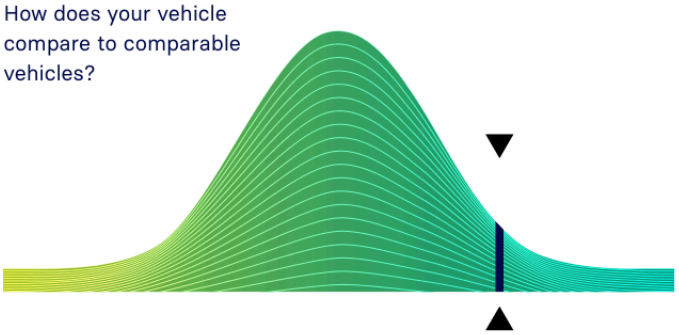
91.8 %

ENERGY 7kWh | 7kWh

WLTP RANGE 40km | 44km

RATING

BENCHMARKING
How does your vehicle compare to comparable vehicles?



CHECKS

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

PUBLIC SAMPLE
Original QR removed

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

CARA Approved Battery Health Check

THIS BATTERY IS TESTED AND AVILOO CERTIFIED.
AVILOO CERTIFIED

ENERGY

	Gross	Net (Nominal)	Usable
Current:	8.4kWh	6.8kWh	6.8kWh
New:	9.2kWh	7.4kWh	7.4kWh

RANGE

	WLTP	Typical
Current:	40km	31km
New:	44km	34km

EXECUTION PROTOCOL

AVILOO Box connected. **13:53:20**

- 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

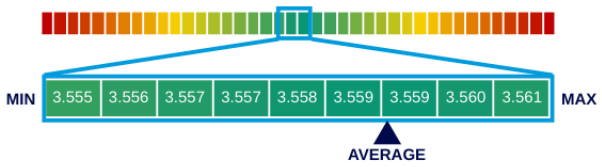
	Value	Status
BMS State of Charge (SoC)*:	2%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	95%	
SoH calculation accuracy:		✓

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	16.0°C	17.0°C	1.0°C	✓
Cell Voltage	3.555V	3.561V	6mV	✓
Pack Voltage	341.7V			
Average Current	2.4A			

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	3.558	3.559	3.559	3.559	3.558	3.559	3.559	3.559	3.559	3.559	3.557	3.559	3.559	3.557	3.559	3.559	3.558	3.558	3.559	3.559
21 - 40	3.559	3.558	3.558	3.557	3.558	3.558	3.559	3.559	3.558	3.559	3.559	3.559	3.559	3.559	3.559	3.559	3.559	3.558	3.558	3.559
41 - 60	3.558	3.560	3.559	3.558	3.557	3.559	3.559	3.559	3.557	3.557	3.559	3.557	3.557	3.557	3.555	3.558	3.557	3.558	3.558	3.557
61 - 80	3.557	3.558	3.558	3.559	3.559	3.559	3.559	3.559	3.559	3.559	3.559	3.559	3.558	3.559	3.559	3.559	3.559	3.561	3.559	3.560
81 - 96	3.559	3.559	3.559	3.556	3.559	3.559	3.558	3.559	3.559	3.558	3.558	3.559	3.558	3.559	3.559	3.559				



*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 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.

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