

INDEPENDENT BATTERY CERTIFICATE



CERTIFICATE NUMBER: F9E6F9EA-D5D7-48CA-AB4E-D4AD254E05D4

VEHICLE

BRAND: BMW

MODEL: 3 Series Plug-in Hybrid - 22,3 kWh

MILEAGE:

VIN: WBA41GL020FU09744

DATE AND TIME:

22.08.2025, 14:42:00

EXECUTED BY: 135024 - Bergwerff Automotive B.V

RESULTS

STATE OF HEALTH (SOH)

-- %

ENERGY

- kWh | 0kWh



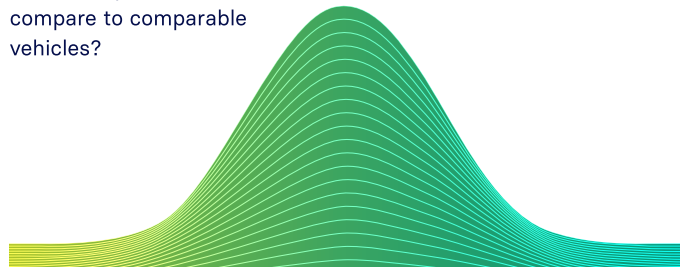
WLTP RANGE

- |

RATING

BENCHMARKING

How does your vehicle compare to comparable vehicles?



below average

average

above average

CHECKS

Battery Management System (BMS) - analysis failed



Battery Sensor - analysis failed



Battery Measurements - analysis failed



Battery Cell Voltages - analysis failed



Vehicle Communication - warning detected



SCAN FOR DETAILS

EVALUATION

INCONCLUSIVE - BATTERY HEALTH UNDETERMINED

The detailed battery diagnosis with the AVILOO FLASH test failed because not all requirements were met during the measurement. For Details scan the QR code.

For assistance, please contact AVILOO Customer Management.

Marcus Berger

Dr. Marcus Berger, CEO



ENERGY

	Gross	Net (Nominal)	Usable
Current:			
New:			

RANGE

	WLTP	Typical
Current:		
New:		

EXECUTION PROTOCOL

AVILOO Box connected. 14:41:56

FLASH Test started.	✓
Vehicle detected.	✓
Starting data acquisition.	✓
Finished data acquisition.	✓

MESSAGES

Analysis failed because vehicle was turned off and not all necessary signals were received during data acquisition. Please switch on the vehicle and repeat the test. If the problem persists, please contact AVILOO Customer Management.

SENSORS

Voltage Sensor	✗
Current Sensor	✗
Temperature Sensors	✗
Cell Voltage Sensors	✗

BMS

	Value	Status
BMS State of Charge (SoC)*:	--%	
SoC calculation accuracy:		✗
BMS State of Health (SoH)*:	--%	
SoH calculation accuracy:		✗

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	--°C	--°C	--°C	✗
Cell Voltage	--V	--V	--mV	✗
Pack Voltage	--V			
Average Current	--A			

*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.