INDEPENDENT

Electric Vehicle Battery Certificate

Certificate issued by

Optiledger

Certificate creation time: 2026-11-05, 14:37

Certificate number: 20261105.248

Vehicle information

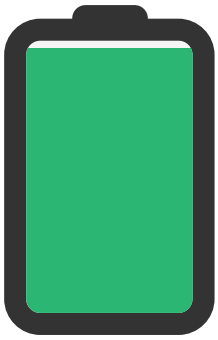
Registration number / VIN	Brand / Model	Odometer
BRY75J / WBA21EF02P5W21079	BMW X1	77990 km

Test results

Date and time of test: 2026-11-05, 13:46

Test performed by: kvdbil

State of health (SOH)



97 %

Battery capacity

Estimated capacity



Factory new capacity

WLTP range

Estimated WLTP 87 km



Factory new WLTP 90 km

Diagnostics

	VALUE
SOC	95%
Pack voltage	356.2V

	MIN	MAX	DELTA
Battery temperature	8.0°C	8.8°C	0.8°C
Cell voltage	4.041V	4.054V	13mV

Cell voltages

1–24	4.045	4.045	4.046	4.045	4.044	4.044	4.043	4.044	4.045	4.045	4.045	4.044	4.044	4.044	4.042	4.045	4.045	4.045	4.043	4.044	4.045	4.044	4.043	4.046
25–48	4.043	4.044	4.044	4.044	4.044	4.043	4.044	4.041	4.043	4.043	4.041	4.041	4.043	4.041	4.044	4.041	4.042	4.045	4.042	4.044	4.054	4.054	4.054	4.053
49–72	4.053	4.053	4.053	4.052	4.052	4.053	4.052	4.053	4.053	4.054	4.052	4.053	4.053	4.053	4.050	4.053	4.053	4.054	4.054	4.051	4.053	4.053	4.053	4.053
73–78	4.053	4.052	4.049	4.052	4.052	4.052																		

Normal: Cell voltage deviation is within the expected range.

Method and control

Battery assessment is based on diagnostic data retrieved from the vehicle's OEM Battery Management System (BMS) and comparative reference data from similar vehicle models.

Attest

The test was executed according to the OptiLedger SOH procedure with no known technical issues during data acquisition.

Disclaimer

Results represent an estimated assessment of battery condition at the time of testing and do not constitute a warranty or guarantee of battery capacity, performance, or remaining lifetime. The original WLTP range is determined and published by the vehicle manufacturer under standardized laboratory test conditions. The estimated WLTP presented in this report is calculated from diagnostic data and reference parameters and does not represent actual driving range. Real-world range may vary depending on driving conditions, temperature, load, and driving behavior. Full methodology, limitations and liability disclaimer available at: https://optiledger.se/legal/optiledger_battery_test_methodology_and_disclaimer.pdf.

Contact us: contact@optiledger.se