INDEPENDENT

BATTERY CERTIFICATE

AVILOO
BATTERY DIAGNOSTICS

CERTIFICATE NUMBER: B46CD32C-D993-45D7-9815-1DB9DE821DE1

VEHICLE

BRAND: Nissan
MODEL: Leaf ZE1 - 40 kWh

MILEAGE: 21,549 km
VIN: SJNFAAZE1U0145340
DATE AND TIME: 22.08.2025, 13:19:52

EXECUTED BY: Carla AB

RESULTS

STATE OF HEALTH (SOH)

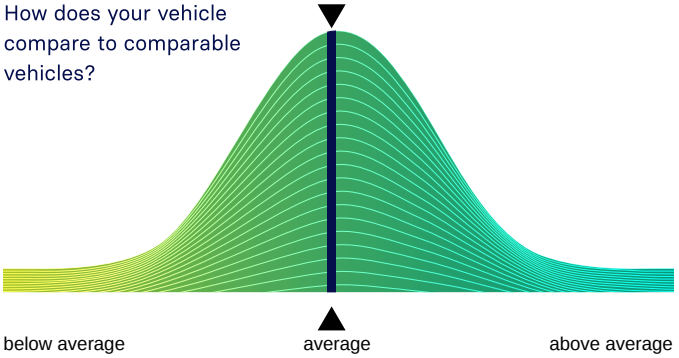
95.5 %

ENERGY 37kWh | 39kWh

WLTP RANGE 258km | 270km

RATING

BENCHMARKING
How does your vehicle compare to comparable vehicles?



CHECKS

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

SCAN FOR DETAILS

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

BATTERY IS TESTED AND CERTIFIED BY AVILOO
AVILOO CERTIFIED

ENERGY

	Gross	Net (Nominal)	Usable
Current:	38.2kWh	37.2kWh	32.9kWh
New:	40.0kWh	39.0kWh	34.5kWh

RANGE

	WLTP	Typical
Current:	258-258km	205km
New:	270-270km	215km

EXECUTION PROTOCOL

AVILOO Box connected. **13:19:48**

- FLASH Test started. ✓
- Vehicle detected. ✓
- Starting data acquisition. ✓
- Finished data acquisition. ✓
- Analyzing data. ✓
- Analysis completed. ✓

SENSORS

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

BMS

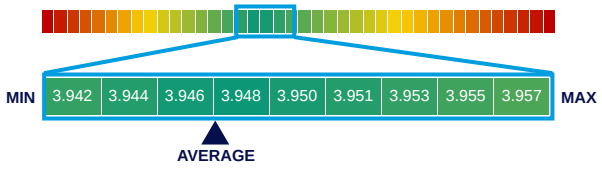
	Value	Status
BMS State of Charge (SoC)*:	78%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	95%	
SoH calculation accuracy:		✓

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	15.0°C	15.0°C	0.0°C	✓
Cell Voltage	3.942V	3.957V	15mV	✓
Pack Voltage	379.0V			
Average Current	-1.3A			

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	3.944	3.948	3.946	3.944	3.946	3.948	3.948	3.944	3.946	3.944	3.948	3.948	3.944	3.946	3.944	3.946	3.944	3.946	3.946	3.946
21 - 40	3.942	3.946	3.946	3.944	3.944	3.948	3.944	3.946	3.946	3.944	3.946	3.946	3.944	3.944	3.946	3.946	3.944	3.946	3.944	3.944
41 - 60	3.946	3.942	3.944	3.944	3.948	3.944	3.944	3.948	3.950	3.950	3.948	3.948	3.948	3.950	3.948	3.948	3.948	3.948	3.948	3.948
61 - 80	3.944	3.953	3.946	3.948	3.948	3.948	3.948	3.948	3.948	3.950	3.948	3.948	3.948	3.948	3.948	3.948	3.946	3.957	3.946	3.948
81 - 96	3.946	3.948	3.946	3.948	3.946	3.944	3.948	3.948	3.950	3.948	3.950	3.950	3.950	3.950	3.948	3.950				



*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 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.

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