



# FLASH TEST REPORT

## Execution

State of charge 7 %  
Date 28/03/2025 12:51:55  
Executed by Carla AB

## Vehicle

Brand Nissan  
Model Leaf ZE1 - 40 kWh  
VIN SJNFAAZE1U0042058  
Mileage 68,672 km

## Analysis Result

# AVILOO SCORE

90  
/ 100

**High voltage battery usage and history**  
Analysis of charging & driving behavior

64 / 70

**High voltage battery performance**  
Analysis of cell voltages and module temperatures.

26 / 30

**High voltage battery control unit**  
Check of signals and calculations of the battery management control unit.



**Vehicle communication interface**  
Check of communication via the diagnostic interface.



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# EXPLANATION OF THE BATTERY FLASH TEST

## ANALYSIS METHOD

The analysis performed is a combined result of: The communication quality between the diagnostic hardware AVILOO Box and the on-board diagnostic interface of the vehicle. The live battery data and data that indicates the previous use of the high voltage battery, which is made available to the AVILOO Box by the battery management system during the measurement. The plausibility check and classification of the battery condition using the collected values and a comparison with the AVILOO Battery Cloud using Big Data algorithms.

## FLASH TEST EXECUTION PROTOCOL

12:51:51	AVILOO Box connected.
✓	FLASH Test started.
✓	Vehicle detected.
✓	Starting data acquisition.
✓	Finished data acquisition.
✓	Analyzing data.
✓	Analysis completed.

## DETAILED RESULTS OF PERFORMED CHECKS

### Vehicle Information

VIN	SJNFAAZE1U0042058
Date	28/03/2025 12:51:55
Mileage	68,672 km

### Measurements High Voltage System

Battery temperature	23 °C
Maximum cell temperature deviation	7 °C
Pack voltage	334.8 V
Maximum cell voltage deviation	16.03 mV
Peak current during check	-1.68 A
State of Health (SoH - read from car manufacturer)*	87.24 %

\*The SoH shown here was not calculated by AVILOO but corresponds to the SoH read out from the battery management system and calculated by the manufacturer. AVILOO therefore does not guarantee the correctness of this SoH.

