AVILOO
BATTERY DIAGNOSTICS

FLASH TEST REPORT

Execution

State of charge	75 %
Date	01/02/2024 12:40:08
Executed by	Carla AB

Vehicle

Brand	Nissan
Model	Leaf ZE1
VIN	SJNFAAZE1U0120798
Mileage	39,862 km

Analysis Result

AVILOO SCORE 95 / 100

High voltage battery usage and history
Analysis of charging & driving behavior — 67 / 70

High voltage battery performance
Analysis of cell voltages and module temperatures. — 28 / 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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CARA Approved Battery Health Check

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

12:40:05	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	SJNFAAZE1U0120798
Date	01/02/2024 12:40:08
Mileage	39,862 km

Measurements High Voltage System

Battery temperature	6 °C
Maximum cell temperature deviation	1 °C
Pack voltage	375.4 V
Maximum cell voltage deviation	5.31 mV
Peak current during check	-12.43 A
State of Health (SoH - read from car manufacturer)*	92.74 %

*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.

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