



# FLASH TEST REPORT

## Execution

State of charge 15 %  
Date 28/07/2023 08:14:48  
Executed by Carla AB

## Vehicle

Brand Nissan  
Model Leaf ZE1  
VIN SJNFAAZE1U0093445  
Mileage 56,334 km

## Analysis Result

# AVILOO SCORE

91  
/ 100

### High voltage battery usage and history

Analysis of charging & driving behavior

45 / 50

### High voltage battery performance

Analysis of cell voltages and module temperatures.

27 / 30

### High voltage battery control unit

Check of signals and calculations of the battery management control unit.

10 / 10

### Electrical low voltage system

Check of 12 V battery state and power supply.

4 / 5

### Vehicle communication interface

Check of communication via the diagnostic interface.

5 / 5

  
DI Wolfgang Berger MBA  
Managing director

  
DI Nikolaus Mayerhofer  
Managing director

  
Dr. Marcus Berger  
COO/CFO and Partner



# 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

08:14:45 AVILOO Box connected.  
08:14:48 Flash Test started.  
08:14:51 Vehicle detected.  
08:14:56 Starting data acquisition.  
08:16:56 Finished data acquisition.  
08:17:09 Analyzing data.  
08:17:10 Analysis completed.

## DETAILED RESULTS OF PERFORMED CHECKS

### Vehicle Information

|         |                     |
|---------|---------------------|
| VIN     | SJNFAAZE1U0093445   |
| Date    | 28/07/2023 08:14:48 |
| Mileage | 56,334 km           |

### Measurements High Voltage System

|                                                     |          |
|-----------------------------------------------------|----------|
| Battery temperature                                 | 23 °C    |
| Maximum cell temperature deviation                  | 2 °C     |
| Pack voltage                                        | 345.44 V |
| Maximum cell voltage deviation                      | 44.01 mV |
| Peak current during check                           | -3.84 A  |
| State of Health (SoH - read from car manufacturer)* | 91.48 %  |

### Measurements Low Voltage System

|                         |         |
|-------------------------|---------|
| Power supply 12V system | 14.33 V |
| 12V battery voltage     | 11.64 V |

\*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.

