AVILOO
BATTERY DIAGNOSTICS

FLASH TEST REPORT

Execution

State of charge	49 %
Date	05/09/2023 08:07:01
Executed by	Carla AB

Vehicle

Brand	Tesla
Model	Model 3 - 82,1 kWh
VIN	LRW3E7EL8NC514675
Mileage	42,162 km

Analysis Result

AVILOO SCORE 90 / 100

High voltage battery usage and history Analysis of charging & driving behavior	63 / 70
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.	✔
Vehicle communication interface Check of communication via the diagnostic interface.	✔

DI Wolfgang Berger MBA
Managing director

DI Nikolaus Mayerhofer
Managing director

Dr. Marcus Berger
COO/CFO and Partner

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

08:06:58	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	LRW3E7EL8NC514675
Date	05/09/2023 08:07:01
Mileage	42,162 km

Measurements High Voltage System

Battery temperature	26.5 °C
Maximum cell temperature deviation	1 °C
Pack voltage	361.7 V
Maximum cell voltage deviation	4 mV
Peak current during check	-3.99 A
State of Health (SoH - read from car manufacturer)*	90.89 %

*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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AVILOO GmbH
Brown Boveri Strasse 16
2351 Wiener Neudorf
Austria

Tel: +43 2236 374 036
Mail: info@aviloo.com
Web: www.aviloo.com

UID Nr.: ATU 737 81605
FN: 502117 h