



BATTERY CONDITION & SOH REPORT

Diagnostic condition documentation of the high-voltage battery

1. Vehicle & Inspection Data

Manufacturer / Model	Mercedes-Benz E 300 Hybrid
VIN	EXAMPLE-VIN - ANONYMIZED
Model Year	2022
Mileage	41,060 km
Inspection Date	07 October 2026
Diagnostic System	MUCAR - Mercedes-Benz V11.36
Inspection Scope	BMS / High-voltage battery / Cell voltages / Fault memory

SOH	CELLS	FAULTS
94.44 %	10 mV Δ	0

2. Assessment of Battery Condition

The battery capacity value read from the diagnostic system is 94.444%. The difference between the highest and lowest recorded cell voltage is 0.01 V (10 mV). No fault codes were detected during the short diagnostic test.

Parameter	Measured Value	Assessment
Original battery capacity	37.000 Ah	Reference value
Current battery capacity	34.944 Ah	From diagnostic system
Remaining battery capacity / SOH	94.444 %	Very good value

3. High-Voltage Battery Cell Voltages

Parameter	Value
Maximum voltage - battery cells 1-100	3.52 V
Minimum voltage - battery cells 1-100	3.51 V
Cell with maximum voltage	No. 94
Cell with minimum voltage	No. 87
Difference max. / min. cell voltage	0.01 V (10 mV)
Sum of cell voltages	351.7 V

4. High-Voltage System / BMS

Parameter	Value
High-voltage on-board network voltage at component "A100"	304.65 V
High-voltage battery current	No value available
Terminal 30 voltage	0.19 V
Terminal 30c voltage	Value outside range
High-voltage battery voltage	Value outside range

5. Fault Memory / System Diagnostics

Diagnostic Point	Result
Total systems scanned	59
Fault codes	0
BMS - Battery Management System	Normal
PTCU - Drivetrain	Normal
Fuel control unit (FSCU) - Fuel pump	Normal
SG-EM - Power electronics	Normal
ECM - Engine control module (CDI)	Normal
SG-LG - On-board charger	Normal

6. Professional Summary

Based on the data read from the diagnostic system at the time of inspection, the high-voltage battery of the inspected Mercedes-Benz E 300 Hybrid shows a reported remaining capacity of 94.444%. This corresponds to 34.944 Ah compared with an original capacity of 37.000 Ah. The recorded cell voltage difference is only 10 mV. No fault codes were detected during the short diagnostic test.

94.44 %

REPORTED BATTERY SOH

7. Notes on the Diagnostic Result

- The stated SOH value is based on battery capacity data read and/or calculated by the diagnostic system.
- This inspection is an electronic diagnostic reading and does not replace a laboratory test or dismantling of the high-voltage battery.
- The measured values refer to the time of inspection and may vary depending on state of charge, temperature and operating conditions.
- A single SOH measurement cannot provide a definitive statement about the future service life of the battery.

Inspector	Company
André Linnik Automotive Expert	Linnik Car Solutions LCS CarCheck

This report was prepared on the basis of the diagnostic images provided by the client.