INDEPENDENT

BATTERY CERTIFICATE

AVILOO
BATTERY DIAGNOSTICS

CERTIFICATE NUMBER: 4BBFCACE-271A-4E66-A6D4-F01343DF2F56

VEHICLE

BRAND: Tesla
MODEL: Model Y - 60,5 kWh

MILEAGE: 10,140 km
VIN: LRWYHCFS7PC202992
DATE AND TIME:
07/10/2026, 09:14

EXECUTED BY: Carma

RESULTS

Independent
STATE OF HEALTH (SOH)

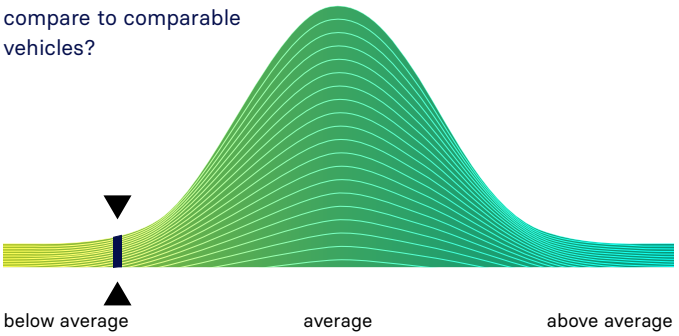
94.8 %

ENERGY 57kWh | 61kWh

WLTP RANGE 474km | 500km

RATING

BENCHMARKING
How does your vehicle compare to comparable vehicles?



CHECKS

- Battery Management System (BMS) ✓
- Battery Sensor ✓
- Battery Measurements ✓
- Battery Cell Voltages ✓
- Vehicle Communication ✓

SCAN FOR DETAILS

EVALUATION

FAIR HEALTH - NO ABNORMALITIES DETECTED

Based on the detailed battery diagnostics performed with the AVILOO FLASH Test, we hereby certify that the drive battery of this vehicle is in fair condition.

The drive battery is therefore officially AVILOO Certified.

Dr. Marcus Berger, CEO

CARA Approved Battery Health Check

THIS BATTERY IS TESTED AND AVILOO CERTIFIED
AVILOO CERTIFIED

ENERGY

	Gross	Net (Nominal)	Usable
Current:	57.3kWh	57.3kWh	54.7kWh
New:	60.5kWh	60.5kWh	57.7kWh

SENSORS

Voltage Sensor	✓
Current Sensor	✓
Temperature Sensors	✓
Cell Voltage Sensors	✓

RANGE

	WLTP	Typical
Current:	431-474km	327km
New:	455-500km	345km

BMS

	Value	Status
BMS State of Charge (SoC)*:	19%	
SoC calculation accuracy:		✓
BMS State of Health (SoH)*:	95%	
SoH calculation accuracy:		✓

EXECUTION PROTOCOL

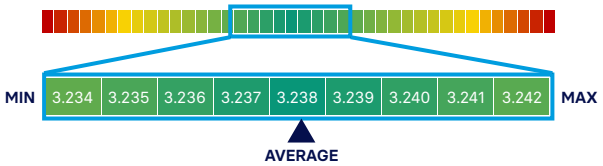
AVILOO Box connected.	09:14:53
FLASH Test started.	✓
Data acquisition started.	✓
Vehicle detected.	✓
Data acquisition completed.	✓
Data analysis started.	✓
Data analysis completed.	✓

MEASUREMENTS

	Min	Max	Delta	Status
Battery Temperature	26.0°C	27.0°C	1.0°C	✓
Cell Voltage	3.234V	3.242V	8mV	✓
Pack Voltage	349.5V			
Average Current	-1.5A			

CELL VOLTAGES DIAGRAM

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1 - 20	3.239	3.238	3.238	3.240	3.240	3.240	3.237	3.240	3.238	3.237	3.238	3.238	3.238	3.240	3.238	3.239	3.237	3.234	3.238	3.238
21 - 40	3.238	3.238	3.236	3.236	3.238	3.237	3.239	3.238	3.238	3.239	3.238	3.238	3.239	3.239	3.238	3.238	3.238	3.237	3.238	3.237
41 - 60	3.237	3.237	3.238	3.238	3.239	3.238	3.237	3.238	3.240	3.240	3.239	3.238	3.239	3.238	3.239	3.240	3.238	3.239	3.237	3.240
61 - 80	3.239	3.238	3.240	3.239	3.237	3.242	3.240	3.239	3.238	3.240	3.239	3.238	3.239	3.238	3.239	3.239	3.237	3.239	3.239	3.239
81 - 100	3.238	3.239	3.237	3.240	3.239	3.237	3.236	3.239	3.238	3.238	3.237	3.238	3.240	3.238	3.239	3.240	3.237	3.239	3.239	3.238
101 - 108	3.238	3.236	3.241	3.237	3.237	3.237	3.237	3.237												



*The values shown here were read directly from the vehicle's battery management system (BMS) and are calculated and provided by the vehicle manufacturer. The State of Health (SoH) displayed corresponds to the value reported by the BMS and is CARA-certified.

DISCLAIMER: The test result includes the currently calculated state of health (SoH) of the drive battery. The determination is based on data provided by the vehicle. These are evaluated by AVILOO's algorithms using statistical and analytical models. Manipulation of the data in the control unit leads to an incorrect result. The indicated SoH has a technically induced fluctuation range (deviation) of no more than 3% in at least 95% of reference measurements. It should be noted that this tolerance applies to the SoH determination at the cell level and not to the SoH of the entire battery. This is because the state of charge of individual cells may vary, which can negatively affect the current SoH of the battery. However, this can be compensated by the Battery Management System (BMS) or during a calibration. The result reflects the condition of the battery at the time of the test. No conclusions can be drawn about the future state of health of the battery from this. Statements about mechanical damage or external influences are not part of this diagnosis.

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